

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 802H 9. API Well No. 30-015-54195
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 NENE / 505 FNL / 1005 FEL / LAT 32.106968 / LONG -104.189714 At proposed prod. zone SESE / 200 FSL / 1210 FEL / LAT 32.064712 / LONG -104.190865		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. 90 feet		19. Proposed Depth 9794 feet / 25408 feet 20. BLM/BIA Bond No. in file FED: NMB000215
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3124 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 10/04/2022
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: NENE / 505 FNL / 1005 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106968 / LONG: -104.189714 (TVD: 0 feet, MD: 0 feet)
PPP: NENE / 330 FNL / 1210 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.10744 / LONG: -104.190385 (TVD: 9723 feet, MD: 9888 feet)
PPP: SESE / 1319 FSL / 1210 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097445 / LONG: -104.190497 (TVD: 9787 feet, MD: 13749 feet)
PPP: SENE / 1321 FNL / 1210 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.090106 / LONG: -104.19058 (TVD: 9789 feet, MD: 16389 feet)
PPP: NENE / 1 FNL / 1210 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079003 / LONG: -104.190705 (TVD: 9791 feet, MD: 20349 feet)
BHL: SESE / 200 FSL / 1210 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064712 / LONG: -104.190865 (TVD: 9794 feet, MD: 25408 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- 54195	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 802H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3124.7'

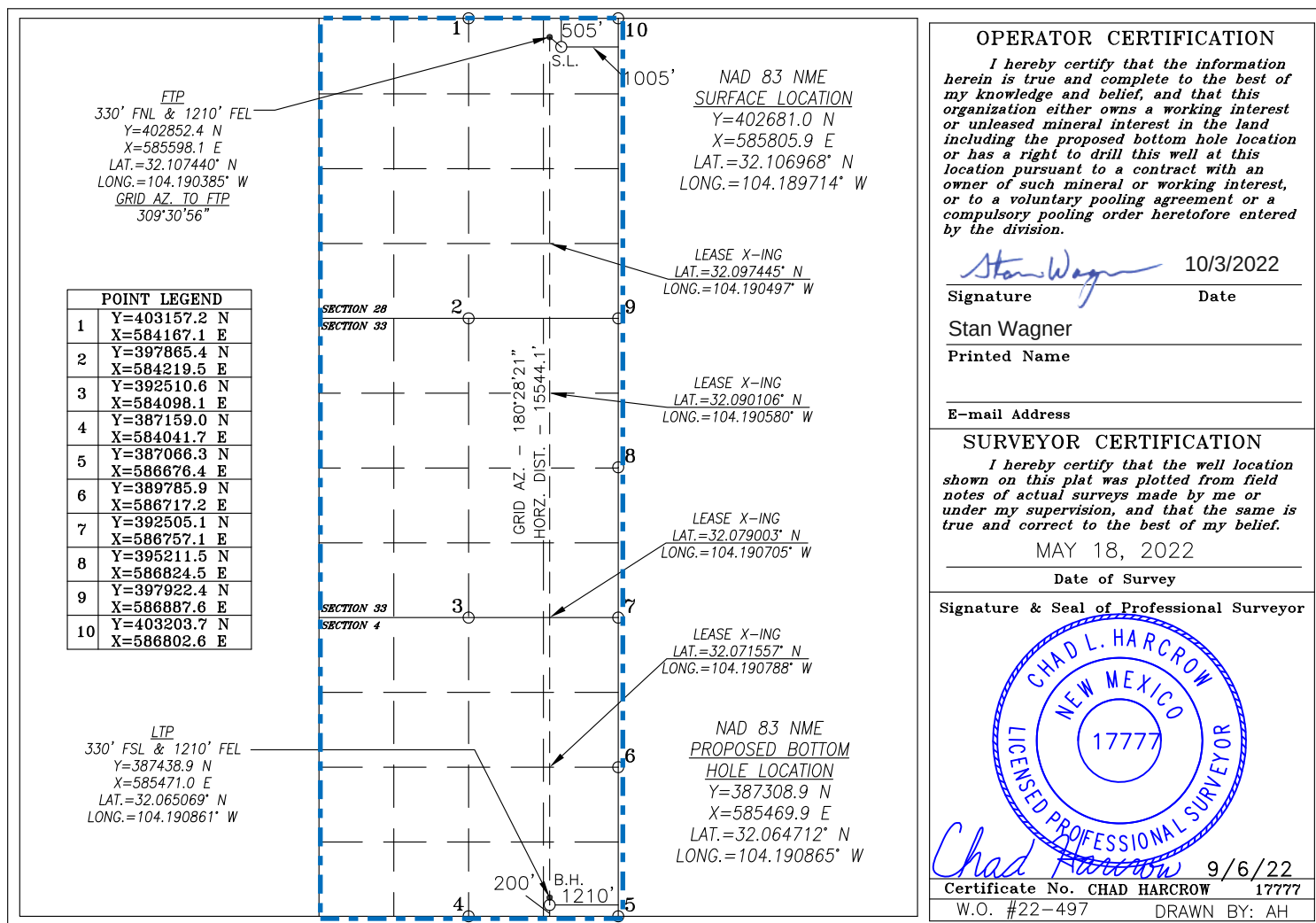
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	25-S	27-E		505	NORTH	1005	EAST	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
P	4	26-S	27-E		200	SOUTH	1210	EAST	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

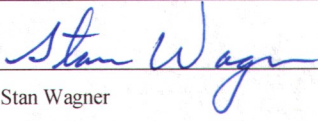
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 802H

1. Geologic Formations

TVD of target	9,794' EOL	Pilot hole depth	NA
MD at TD:	25,408'	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	527	Salt	
Base of Salt	1938	Salt	
Lamar	2169	Salt Water	
Bell Canyon	2218	Salt Water	
Cherry Canyon	3022	Oil/Gas	
Brushy Canyon	4127	Oil/Gas	
Bone Spring Lime	5711	Oil/Gas	
1st Bone Spring Sand	6649	Oil/Gas	
2nd Bone Spring Sand	7156	Oil/Gas	
3rd Bone Spring Sand	8480	Oil/Gas	
Wolfcamp	8811	Oil/Gas	
Wolfcamp C	9646	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	25,408	5.5"	23	P110	W441	2.28	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 802H

	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?	

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3. Cementing Program

Casing	# Sks	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
	1585	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 802H

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 802H

5. Mud Program

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

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

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

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

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

COG Operating, LLC - Flaming Snail Federal Com 802H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6370 psi at 9794' 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

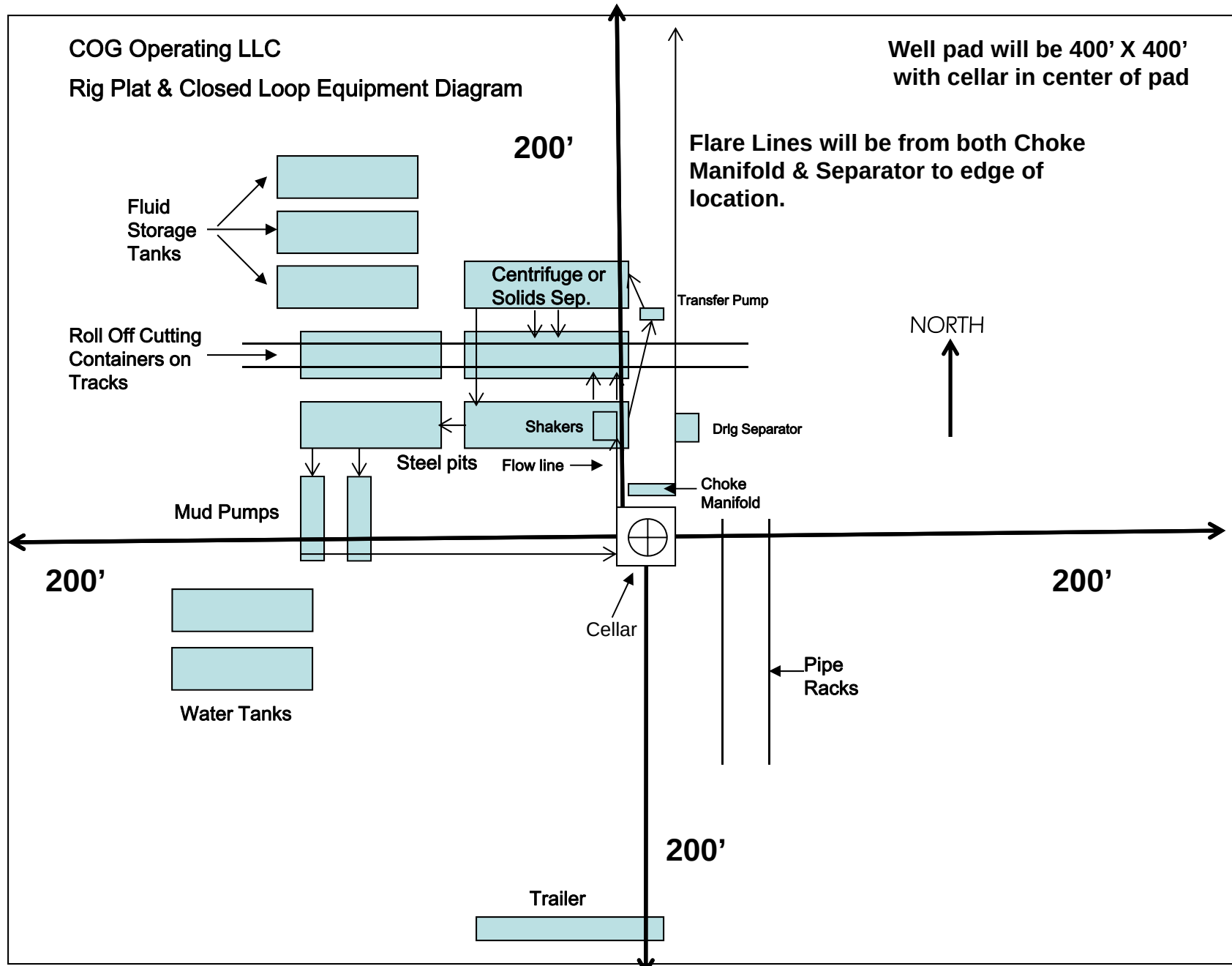


Exhibit 1

"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 #802H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	9,257.4	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
9,257.4	25,408.3	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						
CICADA UNIT #14H - OWB - AWP						Out of range
CICADA UNIT #15H - OWB - AWP						Out of range
CICADA UNIT #16H - OWB - AWP						Out of range
CICADA UNIT #17H - OWB - AWP						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	1,500.0	1,504.2	301.4	293.2	36.484	CC, ES
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	7,100.0	7,179.6	874.1	843.3	28.380	SF
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	5,162.4	5,209.8	298.0	278.3	15.181	CC, ES
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	7,030.0	7,100.5	366.1	337.4	12.747	SF
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	7,548.2	7,582.2	213.7	189.3	8.742	CC, ES
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	7,700.0	7,719.9	219.5	193.5	8.427	SF
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,500.1	1,504.7	174.8	165.5	18.810	CC, ES
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	25,408.3	24,382.6	1,189.6	945.3	4.871	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,513.9	1,519.1	161.4	152.0	17.146	CC
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,520.0	1,525.5	161.4	152.0	17.108	ES
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	25,408.3	24,310.6	900.7	654.0	3.650	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,537.3	1,543.8	152.9	143.4	16.009	CC
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,700.0	1,714.0	153.5	143.2	14.913	ES
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	25,408.3	24,298.5	822.5	574.4	3.315	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,503.4	1,508.2	150.0	140.6	15.865	CC
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,520.0	1,525.1	150.0	140.5	15.786	ES
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	25,408.3	24,323.6	1,006.1	760.4	4.095	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,500.3	1,504.9	153.0	143.6	16.228	CC
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,520.0	1,524.6	153.1	143.6	16.140	ES
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,710.0	1,714.9	158.9	148.8	15.729	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1						Out of range

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 #710H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,437.3	1,437.9	30.0	21.2	3.421	CC
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,500.0	1,500.6	30.0	21.1	3.379	ES
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,520.0	1,520.4	30.1	21.2	3.370	SF
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,500.0	1,500.0	29.9	21.0	3.368	CC
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,520.0	1,519.8	29.9	21.0	3.351	ES, SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1						Out of range
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	11,536.5	9,766.3	767.1	459.7	2.496	CC, ES, SF
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW						Out of range

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #14H - OWB - AWP	25,408.3	9,746.2				Out of Range @TD
CICADA UNIT #15H - OWB - AWP	25,408.3	9,711.0				Out of Range @TD
CICADA UNIT #16H - OWB - AWP	25,408.3	9,909.0				Out of Range @TD
CICADA UNIT #17H - OWB - AWP	25,408.3	9,372.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	25,408.3	23,304.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	25,408.3	23,232.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	25,408.3	23,200.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	25,408.3	23,122.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	25,408.3	23,624.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	25,408.3	23,511.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	25,408.3	24,382.6	1,189.6	945.3	4.871	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	25,408.3	24,310.6	900.7	654.0	3.650	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	25,408.3	24,298.5	822.5	574.4	3.315	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	25,408.3	24,323.6	1,006.1	760.4	4.095	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	25,408.3	24,345.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	25,408.3	24,278.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	25,408.3	24,197.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	25,408.3	24,170.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	25,408.3	24,202.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	25,408.3	24,229.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	25,408.3	25,491.7	880.0	638.5	3.644	
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	25,408.3	25,430.7	880.3	637.6	3.627	
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	25,408.3	25,359.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	25,408.3	25,284.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	25,408.3	25,330.7				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	25,408.3	9,773.6				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	25,408.3	7,086.0				Out of Range @TD

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0										
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS										
Rule Assigned:										
Reference	Vertical	Measured	Vertical	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Minimum
Depth	Depth	Depth	Depth	Depth	Depth	Depth	Toolface	+N/-S	+E/-W	Separation
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Factor
0.0	0.0	4.2	4.2	3.0	3.0	173.37	-299.4	34.8	301.4	
95.0	95.0	99.2	99.2	3.0	3.0	173.37	-299.4	34.8	301.4	295.4
100.0	100.0	104.2	104.2	3.0	3.0	173.37	-299.4	34.8	301.4	295.4
190.0	190.0	194.2	194.2	3.1	3.0	173.37	-299.4	34.8	301.4	295.3

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-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)	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			
200.0	200.0	204.2	204.2	3.1	3.0	173.37	-299.4	34.8	301.4	295.3	6.15	48.993		
285.0	285.0	289.2	289.2	3.3	3.0	173.37	-299.4	34.8	301.4	295.2	6.27	48.111		
300.0	300.0	304.2	304.2	3.3	3.0	173.37	-299.4	34.8	301.4	295.1	6.29	47.936		
380.0	380.0	384.2	384.2	3.4	3.0	173.37	-299.4	34.8	301.4	295.0	6.40	47.109		
400.0	400.0	404.2	404.2	3.4	3.0	173.37	-299.4	34.8	301.4	295.0	6.43	46.889		
475.0	475.0	479.2	479.2	3.5	3.0	173.37	-299.4	34.8	301.4	294.9	6.54	46.121		
500.0	500.0	504.2	504.2	3.5	3.1	173.37	-299.4	34.8	301.4	294.8	6.57	45.854		
570.0	570.0	574.2	574.2	3.6	3.1	173.37	-299.4	34.8	301.4	294.7	6.68	45.145		
600.0	600.0	604.2	604.2	3.6	3.1	173.37	-299.4	34.8	301.4	294.7	6.72	44.832		
665.0	665.0	669.2	669.2	3.7	3.1	173.37	-299.4	34.8	301.4	294.6	6.82	44.183		
700.0	700.0	704.2	704.2	3.8	3.1	173.37	-299.4	34.8	301.4	294.5	6.88	43.826		
760.0	760.0	764.2	764.2	3.8	3.1	173.37	-299.4	34.8	301.4	294.4	6.97	43.236		
800.0	800.0	804.2	804.2	3.9	3.2	173.37	-299.4	34.8	301.4	294.4	7.04	42.837		
855.0	855.0	859.2	859.2	4.0	3.2	173.37	-299.4	34.8	301.4	294.3	7.12	42.305		
900.0	900.0	904.2	904.2	4.0	3.2	173.37	-299.4	34.8	301.4	294.2	7.20	41.866		
950.0	950.0	954.2	954.2	4.1	3.2	173.37	-299.4	34.8	301.4	294.1	7.28	41.391		
1,000.0	1,000.0	1,004.2	1,004.2	4.1	3.2	173.37	-299.4	34.8	301.4	294.0	7.37	40.914		
1,045.0	1,045.0	1,049.2	1,049.2	4.2	3.3	173.37	-299.4	34.8	301.4	294.0	7.44	40.495		
1,100.0	1,100.0	1,104.2	1,104.2	4.2	3.3	173.37	-299.4	34.8	301.4	293.9	7.54	39.983		
1,140.0	1,140.0	1,144.2	1,144.2	4.3	3.3	173.37	-299.4	34.8	301.4	293.8	7.61	39.619		
1,200.0	1,200.0	1,204.2	1,204.2	4.4	3.4	173.37	-299.4	34.8	301.4	293.7	7.71	39.074		
1,235.0	1,235.0	1,239.2	1,239.2	4.4	3.4	173.37	-299.4	34.8	301.4	293.6	7.78	38.763		
1,300.0	1,300.0	1,304.2	1,304.2	4.5	3.4	173.37	-299.4	34.8	301.4	293.5	7.89	38.188		
1,330.0	1,330.0	1,334.2	1,334.2	4.5	3.4	173.37	-299.4	34.8	301.4	293.5	7.95	37.928		
1,400.0	1,400.0	1,404.2	1,404.2	4.6	3.5	173.37	-299.4	34.8	301.4	293.3	8.08	37.324		
1,425.0	1,425.0	1,429.2	1,429.2	4.6	3.5	173.37	-299.4	34.8	301.4	293.3	8.12	37.113		
1,500.0	1,500.0	1,504.2	1,504.2	4.7	3.5	173.37	-299.4	34.8	301.4	293.2	8.26	36.484 CC, ES		
1,520.0	1,520.0	1,524.2	1,524.2	4.8	3.6	-162.18	-299.4	34.8	301.5	293.2	8.31	36.270		
1,600.0	1,600.0	1,604.2	1,604.2	4.9	3.6	-162.26	-299.4	34.8	303.1	294.6	8.52	35.554		
1,615.0	1,615.0	1,619.2	1,619.2	4.9	3.6	-162.29	-299.4	34.8	303.6	295.0	8.57	35.414		
1,700.0	1,699.8	1,704.0	1,704.0	5.2	3.7	-162.53	-299.4	34.8	308.1	299.2	8.85	34.792		
1,710.0	1,709.8	1,714.0	1,714.0	5.2	3.7	-162.57	-299.4	34.8	308.7	299.9	8.89	34.735		
1,800.0	1,799.5	1,803.7	1,803.7	5.4	3.8	-162.96	-299.4	34.8	316.4	307.2	9.20	34.385		
1,805.0	1,804.4	1,808.6	1,808.6	5.5	3.8	-162.98	-299.4	34.8	316.9	307.7	9.22	34.372		
1,900.0	1,898.7	1,902.9	1,902.9	5.7	3.9	-163.51	-299.4	34.8	328.1	318.5	9.57	34.284		
1,995.0	1,992.5	1,996.7	1,996.7	6.0	3.9	-164.14	-299.4	34.8	342.3	332.3	9.94	34.437		
2,000.0	1,997.5	2,001.8	2,001.8	6.1	3.9	-164.17	-299.4	34.8	343.1	333.1	9.96	34.445		
2,050.0	2,046.6	2,055.3	2,055.3	6.2	4.0	-164.63	-299.0	35.1	351.6	341.4	10.16	34.612		
2,090.0	2,085.9	2,098.2	2,098.2	6.2	4.1	-165.12	-298.1	35.9	358.2	347.9	10.31	34.754		
2,100.0	2,095.7	2,108.9	2,108.9	6.3	4.2	-165.25	-297.8	36.1	359.9	349.5	10.35	34.765		
2,185.0	2,179.1	2,200.2	2,200.0	6.5	4.4	-166.52	-294.0	39.2	372.7	361.9	10.80	34.510		
2,200.0	2,193.9	2,216.3	2,216.1	6.5	4.5	-166.77	-293.1	39.9	374.8	363.9	10.88	34.453		
2,280.0	2,272.4	2,302.3	2,301.8	6.8	4.7	-168.23	-287.0	44.8	385.2	373.9	11.31	34.052		
2,300.0	2,292.0	2,323.8	2,323.1	6.8	4.8	-168.62	-285.2	46.3	387.6	376.2	11.42	33.939		
2,375.0	2,365.7	2,404.3	2,403.0	7.1	5.1	-170.24	-277.3	52.8	396.0	384.1	11.84	33.458		
2,400.0	2,390.2	2,431.1	2,429.5	7.2	5.1	-170.82	-274.3	55.2	398.6	386.6	11.97	33.288		
2,470.0	2,458.9	2,505.9	2,503.3	7.4	5.4	-172.54	-264.8	62.9	405.3	392.9	12.36	32.779		
2,500.0	2,488.4	2,537.8	2,534.7	7.5	5.5	-173.33	-260.3	66.5	407.9	395.4	12.53	32.557		
2,565.0	2,552.2	2,606.8	2,602.3	7.7	5.8	-175.13	-249.7	75.2	413.4	400.5	12.89	32.065		
2,600.0	2,586.5	2,643.8	2,638.4	7.9	5.9	-176.16	-243.5	80.2	416.1	403.0	13.08	31.804		
2,660.0	2,645.4	2,706.4	2,699.3	8.1	6.2	-177.99	-232.2	89.4	420.6	407.2	13.41	31.368		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-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)		
2,700.0	2,684.7	2,745.3	2,737.0	8.2	6.3	-179.15	-224.8	95.4	423.6	410.0	13.61	31.123	
2,755.0	2,738.7	2,798.8	2,789.0	8.4	6.5	179.28	-214.8	103.5	428.1	414.2	13.89	30.819	
2,800.0	2,782.8	2,842.6	2,831.4	8.6	6.6	178.03	-206.6	110.2	431.9	417.8	14.12	30.600	
2,850.0	2,831.9	2,891.3	2,878.6	8.8	6.8	176.66	-197.4	117.6	436.5	422.1	14.37	30.384	
2,900.0	2,881.0	2,939.9	2,925.9	9.0	7.0	175.31	-188.3	125.1	441.3	426.7	14.61	30.199	
2,945.0	2,925.2	2,983.7	2,968.3	9.1	7.1	174.13	-180.1	131.7	445.9	431.0	14.84	30.053	
3,000.0	2,979.2	3,037.2	3,020.3	9.4	7.3	172.71	-170.0	139.9	451.7	436.6	15.10	29.905	
3,040.0	3,018.4	3,076.1	3,058.0	9.5	7.5	171.70	-162.7	145.8	456.1	440.8	15.30	29.813	
3,100.0	3,077.3	3,134.5	3,114.7	9.7	7.7	170.23	-151.8	154.8	463.0	447.4	15.59	29.704	
3,135.0	3,111.7	3,168.6	3,147.7	9.9	7.8	169.39	-145.4	160.0	467.2	451.4	15.75	29.653	
3,200.0	3,175.5	3,231.8	3,209.1	10.1	8.1	167.86	-133.5	169.6	475.2	459.1	16.06	29.583	
3,230.0	3,205.0	3,261.0	3,237.4	10.3	8.2	167.17	-128.0	174.1	479.0	462.8	16.20	29.560	
3,300.0	3,273.7	3,329.1	3,303.5	10.6	8.5	165.61	-115.2	184.4	488.1	471.6	16.53	29.530	
3,325.0	3,298.2	3,353.5	3,327.1	10.7	8.6	165.07	-110.6	188.2	491.4	474.8	16.64	29.525	
3,400.0	3,371.8	3,426.4	3,397.9	11.0	8.9	163.48	-96.9	199.3	501.8	484.8	16.99	29.532	
3,420.0	3,391.5	3,445.9	3,416.8	11.0	9.0	163.06	-93.3	202.3	504.6	487.5	17.08	29.538	
3,500.0	3,470.0	3,523.7	3,492.3	11.4	9.3	161.46	-78.7	214.1	516.1	498.6	17.45	29.579	
3,515.0	3,484.7	3,538.3	3,506.5	11.4	9.4	161.16	-75.9	216.4	518.3	500.8	17.52	29.589	
3,600.0	3,568.2	3,621.0	3,586.7	11.8	9.7	159.54	-60.4	229.0	531.0	513.1	17.90	29.663	
3,610.0	3,578.0	3,630.8	3,596.2	11.8	9.8	159.36	-58.6	230.5	532.6	514.6	17.95	29.673	
3,700.0	3,666.3	3,718.3	3,681.1	12.2	10.1	157.73	-42.1	243.8	546.5	528.2	18.36	29.775	
3,705.0	3,671.2	3,723.2	3,685.9	12.2	10.2	157.64	-41.2	244.6	547.3	529.0	18.38	29.781	
3,800.0	3,764.5	3,815.6	3,775.6	12.6	10.6	156.02	-23.8	258.7	562.6	543.8	18.81	29.909	
3,895.0	3,857.7	3,908.1	3,865.2	13.1	11.0	154.48	-6.5	272.8	578.3	559.0	19.24	30.051	
3,900.0	3,862.6	3,913.0	3,870.0	13.1	11.0	154.40	-5.6	273.5	579.1	559.8	19.26	30.059	
3,990.0	3,951.0	4,000.5	3,954.9	13.5	11.4	153.02	10.9	286.9	594.3	574.6	19.68	30.204	
4,000.0	3,960.8	4,010.3	3,964.4	13.5	11.4	152.87	12.7	288.4	596.0	576.3	19.72	30.221	
4,085.0	4,044.2	4,093.0	4,044.6	13.9	11.8	151.64	28.2	301.0	610.8	590.6	20.11	30.367	
4,097.4	4,056.4	4,105.0	4,056.3	13.9	11.9	151.46	30.5	302.8	612.9	592.8	20.17	30.389	
4,100.0	4,059.0	4,107.6	4,058.8	13.9	11.9	151.43	31.0	303.2	613.4	593.2	20.18	30.395	
4,180.0	4,137.7	4,185.5	4,134.4	14.3	12.2	150.41	45.6	315.1	626.5	605.9	20.56	30.468	
4,200.0	4,157.5	4,205.0	4,153.3	14.4	12.3	150.14	49.3	318.1	629.5	608.9	20.66	30.474	
4,275.0	4,231.7	4,278.2	4,224.3	14.7	12.6	149.11	63.0	329.2	639.9	618.9	21.00	30.479	
4,300.0	4,256.5	4,302.6	4,248.0	14.8	12.8	148.75	67.6	333.0	643.1	622.0	21.11	30.468	
4,370.0	4,326.1	4,370.9	4,314.3	15.1	13.1	147.71	80.4	343.4	651.1	629.7	21.40	30.424	
4,400.0	4,356.0	4,400.2	4,342.7	15.3	13.2	147.24	85.9	347.9	654.2	632.7	21.53	30.391	
4,465.0	4,420.8	4,463.6	4,404.3	15.5	13.5	146.20	97.8	357.5	660.2	638.4	21.78	30.315	
4,500.0	4,455.7	4,497.7	4,437.4	15.6	13.6	145.61	104.2	362.7	663.0	641.1	21.91	30.258	
4,560.0	4,515.7	4,556.2	4,494.1	15.8	13.9	144.57	115.2	371.7	667.2	645.1	22.11	30.171	
4,600.0	4,555.6	4,595.1	4,531.8	16.0	14.1	143.84	122.5	377.6	669.5	647.3	22.25	30.096	
4,647.4	4,603.0	4,641.0	4,576.4	16.0	14.3	118.50	131.2	384.6	671.9	649.6	22.33	30.089	
4,655.0	4,610.6	4,648.5	4,583.6	16.0	14.3	118.35	132.6	385.7	672.3	649.9	22.34	30.094	
4,700.0	4,655.6	4,692.1	4,626.0	16.1	14.6	117.46	140.8	392.4	674.5	652.1	22.39	30.123	
4,750.0	4,705.6	4,740.6	4,673.1	16.1	14.8	116.49	149.9	399.8	677.1	654.6	22.47	30.134	
4,800.0	4,755.6	4,789.1	4,720.1	16.1	15.0	115.52	159.0	407.2	679.9	657.3	22.55	30.144	
4,845.0	4,800.6	4,832.8	4,762.5	16.1	15.2	114.66	167.2	413.9	682.6	660.0	22.64	30.153	
4,900.0	4,855.6	4,886.2	4,814.3	16.2	15.5	113.61	177.2	422.0	686.1	663.4	22.75	30.161	
4,940.0	4,895.6	4,925.0	4,851.9	16.2	15.6	112.86	184.5	427.9	688.9	666.0	22.84	30.167	
5,000.0	4,955.6	4,983.2	4,908.4	16.2	15.9	111.74	195.4	436.8	693.2	670.2	22.97	30.172	
5,035.0	4,990.6	5,017.2	4,941.4	16.2	16.1	111.09	201.8	442.0	695.8	672.8	23.06	30.174	
5,100.0	5,055.6	5,080.2	5,002.6	16.3	16.4	109.90	213.6	451.6	701.0	677.7	23.23	30.175	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-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	
5,130.0	5,085.6	5,109.3	5,030.8	16.3	16.5	109.35	219.1	456.1	703.5	680.1	23.31	30.175		
5,200.0	5,155.6	5,177.3	5,096.7	16.3	16.8	108.10	231.9	466.4	709.5	686.0	23.52	30.171		
5,225.0	5,180.6	5,201.5	5,120.2	16.4	16.9	107.66	236.4	470.1	711.8	688.2	23.59	30.168		
5,300.0	5,255.6	5,274.3	5,190.9	16.4	17.3	106.34	250.1	481.2	718.8	694.9	23.83	30.159		
5,320.0	5,275.6	5,293.7	5,209.7	16.4	17.4	106.00	253.7	484.2	720.7	696.8	23.90	30.155		
5,400.0	5,355.6	5,371.3	5,285.0	16.5	17.7	104.63	268.3	496.0	728.7	704.5	24.18	30.139		
5,415.0	5,370.6	5,385.9	5,299.1	16.5	17.8	104.38	271.0	498.3	730.2	706.0	24.23	30.136		
5,500.0	5,455.6	5,468.4	5,379.1	16.5	18.2	102.97	286.5	510.8	739.3	714.7	24.55	30.114		
5,510.0	5,465.6	5,478.1	5,388.6	16.5	18.3	102.80	288.3	512.3	740.4	715.8	24.59	30.111		
5,600.0	5,555.6	5,565.4	5,473.3	16.6	18.7	101.35	304.7	525.6	750.5	725.6	24.95	30.083		
5,605.0	5,560.6	5,570.2	5,478.0	16.6	18.7	101.27	305.7	526.4	751.1	726.1	24.97	30.081		
5,700.0	5,655.6	5,662.4	5,567.4	16.6	19.1	99.77	323.0	540.4	762.3	737.0	25.37	30.047		
5,795.0	5,750.6	5,754.6	5,656.9	16.7	19.6	98.32	340.3	554.5	774.1	748.3	25.79	30.011		
5,800.0	5,755.6	5,759.4	5,661.6	16.7	19.6	98.25	341.2	555.2	774.7	748.9	25.82	30.009		
5,890.0	5,845.6	5,846.8	5,746.3	16.7	20.0	96.91	357.6	568.6	786.4	760.1	26.24	29.973		
5,900.0	5,855.6	5,856.5	5,755.7	16.8	20.1	96.77	359.4	570.0	787.7	761.4	26.28	29.969		
5,985.0	5,940.6	5,938.9	5,835.8	16.8	20.5	95.55	374.9	582.6	799.1	772.4	26.70	29.933		
6,000.0	5,955.6	5,953.5	5,849.9	16.8	20.5	95.33	377.6	584.9	801.2	774.4	26.77	29.927		
6,080.0	6,035.6	6,031.1	5,925.2	16.9	20.9	94.22	392.2	596.7	812.3	785.1	27.17	29.893		
6,100.0	6,055.6	6,050.5	5,944.0	16.9	21.0	93.95	395.8	599.7	815.1	787.9	27.28	29.885		
6,175.0	6,130.6	6,123.3	6,014.6	16.9	21.3	92.94	409.5	610.8	825.9	798.3	27.66	29.861		
6,200.0	6,155.6	6,147.6	6,038.2	16.9	21.4	92.61	414.1	614.5	829.6	801.8	27.78	29.857		
6,270.0	6,225.6	6,230.1	6,118.6	17.0	21.8	91.56	428.7	626.4	839.4	811.2	28.20	29.764		
6,300.0	6,255.6	6,266.0	6,153.6	17.0	22.0	91.16	434.5	631.1	843.3	814.9	28.38	29.710		
6,365.0	6,320.6	6,344.4	6,230.6	17.0	22.4	90.37	446.0	640.4	851.0	822.2	28.76	29.583		
6,400.0	6,355.6	6,386.9	6,272.5	17.0	22.6	89.99	451.5	644.9	854.7	825.7	28.96	29.510		
6,460.0	6,415.6	6,460.3	6,345.1	17.1	22.9	89.43	460.0	651.8	860.4	831.1	29.28	29.381		
6,500.0	6,455.6	6,509.5	6,393.9	17.1	23.1	89.11	464.8	655.7	863.6	834.1	29.49	29.288		
6,555.0	6,510.6	6,577.4	6,461.5	17.1	23.4	88.74	470.4	660.3	867.4	837.7	29.74	29.164		
6,600.0	6,555.6	6,633.3	6,517.1	17.2	23.6	88.50	474.1	663.3	869.9	840.0	29.94	29.060		
6,650.0	6,605.6	6,695.6	6,579.2	17.2	23.9	88.30	477.3	665.8	872.0	841.9	30.13	28.940		
6,700.0	6,655.6	6,757.9	6,641.6	17.2	24.1	88.17	479.3	667.5	873.4	843.1	30.30	28.830		
6,745.0	6,700.6	6,814.2	6,697.8	17.3	24.3	88.11	480.3	668.3	874.1	843.7	30.41	28.741		
6,800.0	6,755.6	6,876.2	6,759.8	17.3	24.3	88.10	480.5	668.4	874.2	843.7	30.48	28.685		
6,840.0	6,795.6	6,916.2	6,799.8	17.3	24.3	88.10	480.5	668.4	874.2	843.7	30.52	28.640		
6,900.0	6,855.6	6,976.2	6,859.8	17.4	24.3	88.10	480.5	668.4	874.2	843.6	30.60	28.566		
6,935.0	6,890.6	7,011.2	6,894.8	17.4	24.4	88.10	480.5	668.4	874.2	843.5	30.65	28.523		
7,000.0	6,955.6	7,076.2	6,959.8	17.4	24.4	88.10	480.5	668.4	874.2	843.4	30.73	28.443		
7,030.0	6,985.6	7,106.2	6,989.8	17.4	24.4	88.10	480.5	668.4	874.2	843.4	30.77	28.409		
7,100.0	7,055.6	7,179.6	7,063.1	17.5	24.4	88.28	477.7	668.4	874.1	843.3	30.80	28.380 SF		
7,125.0	7,080.6	7,205.9	7,089.2	17.5	24.4	88.48	474.5	668.4	874.0	843.2	30.79	28.386		
7,200.0	7,155.6	7,282.3	7,163.9	17.5	24.5	89.53	458.6	668.2	873.6	842.9	30.71	28.448		
7,220.0	7,175.6	7,301.8	7,182.6	17.6	24.5	89.90	452.9	668.2	873.5	842.8	30.68	28.474		
7,247.1	7,202.7	7,327.6	7,206.9	17.6	24.5	90.45	444.5	668.1	873.4	842.8	30.63	28.516		
7,300.0	7,255.6	7,375.5	7,251.1	17.6	24.6	91.67	425.9	668.0	873.7	843.2	30.53	28.617		
7,315.0	7,270.6	7,388.5	7,262.8	17.6	24.6	92.04	420.2	667.9	873.9	843.4	30.50	28.651		
7,400.0	7,355.6	7,456.5	7,321.7	17.7	24.6	94.26	386.4	667.7	876.2	845.9	30.33	28.887		
7,410.0	7,365.6	7,463.9	7,327.8	17.7	24.6	94.53	382.3	667.6	876.7	846.4	30.31	28.921		
7,500.0	7,455.6	7,524.8	7,376.4	17.7	24.7	96.92	345.5	667.3	883.0	852.8	30.14	29.292		
7,505.0	7,460.6	7,527.9	7,378.8	17.7	24.7	97.05	343.5	667.3	883.5	853.3	30.14	29.316		
7,600.0	7,555.6	7,581.8	7,418.0	17.8	24.7	99.42	306.7	667.0	895.5	865.6	29.97	29.877		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-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	
7,695.0	7,650.6	7,626.9	7,448.2	17.8	24.8	101.55	273.2	666.8	913.8	883.9	29.83	30.634	
7,700.0	7,655.6	7,629.0	7,449.5	17.8	24.8	101.66	271.5	666.7	914.9	885.1	29.82	30.679	
7,790.0	7,745.6	7,664.8	7,471.4	17.9	24.8	103.43	243.2	666.5	938.6	908.9	29.70	31.604	
7,800.0	7,755.6	7,668.4	7,473.5	17.9	24.8	103.62	240.2	666.5	941.6	911.9	29.69	31.719	
7,885.0	7,840.6	7,700.0	7,491.1	18.0	24.8	105.23	214.0	666.3	970.1	940.5	29.57	32.809	
7,900.0	7,855.6	7,700.0	7,491.1	18.0	24.8	105.23	214.0	666.3	975.7	946.1	29.58	32.986	
7,980.0	7,935.6	7,724.2	7,503.6	18.0	24.8	106.50	193.4	666.1	1,008.1	978.6	29.50	34.173	
8,000.0	7,955.6	7,729.4	7,506.2	18.0	24.8	106.77	188.8	666.1	1,016.9	987.4	29.48	34.489	
8,075.0	8,030.6	7,750.0	7,516.0	18.1	24.8	107.86	170.7	665.9	1,052.2	1,022.7	29.43	35.753	
8,100.0	8,055.6	7,750.0	7,516.0	18.1	24.8	107.86	170.7	665.9	1,064.7	1,035.3	29.45	36.159	
8,170.0	8,125.6	7,767.8	7,523.9	18.1	24.9	108.81	154.7	665.8	1,101.8	1,072.4	29.42	37.457	
8,200.0	8,155.6	7,773.7	7,526.4	18.2	24.9	109.12	149.4	665.8	1,118.6	1,089.1	29.41	38.028	
8,265.0	8,220.6	7,785.5	7,531.3	18.2	24.9	109.75	138.7	665.7	1,156.5	1,127.0	29.42	39.304	
8,300.0	8,255.6	7,800.0	7,537.0	18.2	24.9	110.53	125.3	665.6	1,177.8	1,148.4	29.40	40.059	
8,360.0	8,315.6	7,800.0	7,537.0	18.3	24.9	110.53	125.3	665.6	1,215.6	1,186.1	29.47	41.248	
8,400.0	8,355.6	7,800.0	7,537.0	18.3	24.9	110.53	125.3	665.6	1,241.7	1,212.2	29.52	42.066	
8,455.0	8,410.6	7,800.0	7,537.0	18.3	24.9	110.53	125.3	665.6	1,278.8	1,249.2	29.59	43.218	
8,500.0	8,455.6	7,820.6	7,544.5	18.4	24.9	111.63	106.1	665.4	1,309.7	1,280.1	29.59	44.263	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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	
0.0	0.0	4.9	4.9	3.0	3.0	-175.23	-300.5	-25.1	301.5				
95.0	95.0	99.9	99.9	3.0	3.0	-175.23	-300.5	-25.1	301.5	295.5	6.02	50.107	
100.0	100.0	104.9	104.9	3.0	3.0	-175.23	-300.5	-25.1	301.5	295.5	6.02	50.082	
190.0	190.0	194.9	194.9	3.1	3.0	-175.23	-300.5	-25.1	301.5	295.4	6.13	49.160	
200.0	200.0	204.9	204.9	3.1	3.0	-175.23	-300.5	-25.1	301.5	295.4	6.15	49.014	
285.0	285.0	289.9	289.9	3.3	3.0	-175.23	-300.5	-25.1	301.5	295.3	6.27	48.130	
300.0	300.0	304.9	304.9	3.3	3.0	-175.23	-300.5	-25.1	301.5	295.3	6.29	47.955	
380.0	380.0	384.9	384.9	3.4	3.0	-175.23	-300.5	-25.1	301.5	295.1	6.40	47.127	
400.0	400.0	404.9	404.9	3.4	3.0	-175.23	-300.5	-25.1	301.5	295.1	6.43	46.906	
475.0	475.0	479.9	479.9	3.5	3.0	-175.23	-300.5	-25.1	301.5	295.0	6.54	46.137	
500.0	500.0	504.9	504.9	3.5	3.1	-175.23	-300.5	-25.1	301.5	295.0	6.57	45.869	
570.0	570.0	574.9	574.9	3.6	3.1	-175.23	-300.5	-25.1	301.5	294.9	6.68	45.159	
600.0	600.0	604.9	604.9	3.6	3.1	-175.23	-300.5	-25.1	301.5	294.8	6.72	44.846	
665.0	665.0	669.9	669.9	3.7	3.1	-175.23	-300.5	-25.1	301.5	294.7	6.82	44.195	
700.0	700.0	704.9	704.9	3.8	3.1	-175.23	-300.5	-25.1	301.5	294.7	6.88	43.838	
760.0	760.0	764.9	764.9	3.8	3.1	-175.23	-300.5	-25.1	301.5	294.6	6.97	43.246	
800.0	800.0	804.9	804.9	3.9	3.2	-175.23	-300.5	-25.1	301.5	294.5	7.04	42.846	
855.0	855.0	859.9	859.9	4.0	3.2	-175.23	-300.5	-25.1	301.5	294.4	7.13	42.313	
900.0	900.0	904.9	904.9	4.0	3.2	-175.23	-300.5	-25.1	301.5	294.3	7.20	41.873	
950.0	950.0	954.9	954.9	4.1	3.2	-175.23	-300.5	-25.1	301.5	294.3	7.28	41.397	
1,000.0	1,000.0	1,004.9	1,004.9	4.1	3.2	-175.23	-300.5	-25.1	301.5	294.2	7.37	40.919	
1,045.0	1,045.0	1,049.9	1,049.9	4.2	3.3	-175.23	-300.5	-25.1	301.5	294.1	7.45	40.500	
1,100.0	1,100.0	1,104.9	1,104.9	4.2	3.3	-175.23	-300.5	-25.1	301.5	294.0	7.54	39.986	
1,140.0	1,140.0	1,144.9	1,144.9	4.3	3.3	-175.23	-300.5	-25.1	301.5	293.9	7.61	39.622	
1,200.0	1,200.0	1,204.9	1,204.9	4.4	3.4	-175.23	-300.5	-25.1	301.5	293.8	7.72	39.075	
1,235.0	1,235.0	1,239.9	1,239.9	4.4	3.4	-175.23	-300.5	-25.1	301.5	293.8	7.78	38.764	
1,300.0	1,300.0	1,304.9	1,304.9	4.5	3.4	-175.23	-300.5	-25.1	301.5	293.6	7.90	38.187	
1,330.0	1,330.0	1,334.9	1,334.9	4.5	3.4	-175.23	-300.5	-25.1	301.5	293.6	7.95	37.926	
1,400.0	1,400.0	1,404.9	1,404.9	4.6	3.5	-175.23	-300.5	-25.1	301.5	293.5	8.08	37.321	
1,425.0	1,425.0	1,429.9	1,429.9	4.6	3.5	-175.23	-300.5	-25.1	301.5	293.4	8.13	37.110	
1,500.0	1,500.0	1,504.9	1,504.9	4.7	3.6	-175.23	-300.5	-25.1	301.5	293.3	8.27	36.480	
1,520.0	1,520.0	1,524.9	1,524.9	4.8	3.6	-150.77	-300.5	-25.1	301.6	293.3	8.32	36.267	
1,600.0	1,600.0	1,604.9	1,604.9	4.9	3.6	-150.92	-300.5	-25.1	303.1	294.6	8.52	35.592	
1,615.0	1,615.0	1,619.9	1,619.9	4.9	3.6	-150.96	-300.5	-25.1	303.6	295.0	8.56	35.455	
1,700.0	1,699.8	1,704.7	1,704.7	5.2	3.7	-151.34	-300.5	-25.1	307.7	298.8	8.83	34.835	
1,710.0	1,709.8	1,714.7	1,714.7	5.2	3.7	-151.40	-300.5	-25.1	308.3	299.4	8.86	34.777	
1,800.0	1,799.5	1,804.4	1,804.4	5.4	3.8	-152.03	-300.5	-25.1	315.3	306.2	9.17	34.401	
1,805.0	1,804.4	1,809.3	1,809.3	5.5	3.8	-152.07	-300.5	-25.1	315.8	306.6	9.18	34.386	
1,900.0	1,898.7	1,903.6	1,903.6	5.7	3.9	-152.93	-300.5	-25.1	326.2	316.6	9.52	34.249	
1,995.0	1,992.5	1,997.4	1,997.4	6.0	3.9	-153.95	-300.5	-25.1	339.4	329.5	9.89	34.336	
2,000.0	1,997.5	2,002.6	2,002.6	6.1	3.9	-154.01	-300.5	-25.1	340.2	330.3	9.91	34.336	
2,050.0	2,046.6	2,057.0	2,057.0	6.2	4.1	-154.61	-300.0	-25.4	348.0	337.9	10.11	34.412	
2,090.0	2,085.9	2,100.9	2,100.8	6.2	4.1	-155.08	-299.1	-26.1	354.1	343.8	10.28	34.440	
2,100.0	2,095.7	2,111.8	2,111.8	6.3	4.2	-155.18	-298.7	-26.4	355.5	345.2	10.33	34.421	
2,185.0	2,179.1	2,205.6	2,205.4	6.5	4.4	-155.88	-294.5	-29.4	366.5	355.7	10.81	33.914	
2,200.0	2,193.9	2,222.2	2,222.0	6.5	4.5	-155.97	-293.5	-30.2	368.3	357.4	10.89	33.808	
2,280.0	2,272.4	2,311.2	2,310.6	6.8	4.8	-156.30	-286.9	-35.1	376.2	364.9	11.36	33.109	
2,300.0	2,292.0	2,333.6	2,332.8	6.8	4.8	-156.34	-284.8	-36.5	377.9	366.4	11.48	32.912	
2,375.0	2,365.7	2,417.5	2,416.0	7.1	5.1	-156.35	-276.0	-43.0	383.1	371.1	11.94	32.085	
2,400.0	2,390.2	2,445.5	2,443.7	7.2	5.2	-156.31	-272.6	-45.5	384.4	372.3	12.09	31.787	
2,470.0	2,458.9	2,524.1	2,521.2	7.4	5.5	-156.07	-261.9	-53.3	387.0	374.5	12.53	30.883	

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,500.0	2,488.4	2,557.8	2,554.3	7.5	5.6	-155.91	-256.8	-57.0	387.7	375.0	12.72	30.476		
2,565.0	2,552.2	2,630.7	2,625.7	7.7	5.9	-155.45	-244.7	-65.9	388.1	375.0	13.14	29.549		
2,600.0	2,586.5	2,670.0	2,663.9	7.9	6.0	-155.14	-237.5	-71.1	387.8	374.5	13.36	29.035		
2,660.0	2,645.4	2,735.8	2,727.8	8.1	6.3	-154.50	-224.6	-80.5	386.5	372.8	13.69	28.226		
2,700.0	2,684.7	2,775.7	2,766.4	8.2	6.4	-154.09	-216.6	-86.4	385.3	371.4	13.91	27.698		
2,755.0	2,738.7	2,830.6	2,819.5	8.4	6.6	-153.51	-205.5	-94.5	383.8	369.6	14.23	26.970		
2,800.0	2,782.8	2,875.4	2,862.9	8.6	6.7	-153.04	-196.4	-101.1	382.6	368.1	14.50	26.385		
2,850.0	2,831.9	2,925.3	2,911.2	8.8	6.9	-152.51	-186.3	-108.5	381.2	366.4	14.80	25.757		
2,900.0	2,881.0	2,975.1	2,959.5	9.0	7.1	-151.98	-176.2	-115.9	379.9	364.8	15.10	25.156		
2,945.0	2,925.2	3,020.0	3,002.9	9.1	7.2	-151.50	-167.2	-122.5	378.8	363.4	15.38	24.635		
3,000.0	2,979.2	3,074.9	3,056.0	9.4	7.5	-150.90	-156.1	-130.6	377.4	361.7	15.71	24.026		
3,040.0	3,018.4	3,114.7	3,094.6	9.5	7.6	-150.47	-148.0	-136.5	376.5	360.5	15.95	23.601		
3,100.0	3,077.3	3,174.6	3,152.5	9.7	7.8	-149.81	-135.9	-145.3	375.1	358.7	16.31	22.991		
3,135.0	3,111.7	3,209.5	3,186.3	9.9	8.0	-149.43	-128.8	-150.5	374.3	357.7	16.52	22.650		
3,200.0	3,175.5	3,274.3	3,249.1	10.1	8.2	-148.71	-115.7	-160.0	372.8	355.9	16.91	22.044		
3,230.0	3,205.0	3,304.2	3,278.0	10.3	8.4	-148.38	-109.7	-164.5	372.2	355.1	17.09	21.777		
3,300.0	3,273.7	3,374.0	3,345.6	10.6	8.7	-147.59	-95.6	-174.8	370.7	353.2	17.51	21.179		
3,325.0	3,298.2	3,398.9	3,369.7	10.7	8.8	-147.31	-90.5	-178.5	370.2	352.6	17.65	20.975		
3,400.0	3,371.8	3,473.7	3,442.1	11.0	9.1	-146.46	-75.4	-189.5	368.8	350.7	18.09	20.390		
3,420.0	3,391.5	3,493.7	3,461.4	11.0	9.2	-146.24	-71.4	-192.4	368.4	350.2	18.20	20.241		
3,500.0	3,470.0	3,573.4	3,538.7	11.4	9.5	-145.32	-55.2	-204.2	367.0	348.4	18.66	19.671		
3,515.0	3,484.7	3,588.4	3,553.2	11.4	9.6	-145.15	-52.2	-206.4	366.8	348.0	18.74	19.569		
3,600.0	3,568.2	3,673.1	3,635.2	11.8	9.9	-144.17	-35.1	-219.0	365.4	346.1	19.21	19.016		
3,610.0	3,578.0	3,683.1	3,644.9	11.8	10.0	-144.06	-33.1	-220.4	365.2	345.9	19.27	18.954		
3,700.0	3,666.3	3,772.9	3,731.8	12.2	10.4	-143.01	-14.9	-233.7	363.9	344.1	19.75	18.420		
3,705.0	3,671.2	3,777.8	3,736.6	12.2	10.4	-142.95	-13.9	-234.4	363.8	344.0	19.78	18.392		
3,800.0	3,764.5	3,872.6	3,828.3	12.6	10.8	-141.84	5.2	-248.4	362.5	342.2	20.28	17.879		
3,895.0	3,857.7	3,967.3	3,920.0	13.1	11.2	-140.72	24.4	-262.4	361.4	340.6	20.76	17.410		
3,900.0	3,862.6	3,972.3	3,924.8	13.1	11.3	-140.66	25.4	-263.1	361.3	340.5	20.78	17.387		
3,990.0	3,951.0	4,062.0	4,011.7	13.5	11.7	-139.60	43.6	-276.4	360.4	339.2	21.22	16.984		
4,000.0	3,960.8	4,072.0	4,021.4	13.5	11.7	-139.48	45.6	-277.9	360.3	339.0	21.27	16.941		
4,085.0	4,044.2	4,156.8	4,103.4	13.9	12.1	-138.47	62.7	-290.4	359.5	337.8	21.66	16.597		
4,097.4	4,056.4	4,169.1	4,115.4	13.9	12.2	-138.32	65.2	-292.2	359.4	337.7	21.72	16.550		
4,100.0	4,059.0	4,171.7	4,117.9	13.9	12.2	-138.29	65.7	-292.6	359.4	337.7	21.73	16.541		
4,180.0	4,137.7	4,251.4	4,195.1	14.3	12.5	-137.18	81.9	-304.4	357.9	335.8	22.07	16.217		
4,200.0	4,157.5	4,271.3	4,214.3	14.4	12.6	-136.87	85.9	-307.3	357.3	335.2	22.15	16.134		
4,275.0	4,231.7	4,345.8	4,286.4	14.7	13.0	-135.51	100.9	-318.3	354.3	331.9	22.38	15.832		
4,300.0	4,256.5	4,370.6	4,310.4	14.8	13.1	-135.01	106.0	-322.0	353.0	330.5	22.44	15.731		
4,370.0	4,326.1	4,439.8	4,377.5	15.1	13.4	-133.42	120.0	-332.2	348.7	326.2	22.55	15.464		
4,400.0	4,356.0	4,469.4	4,406.1	15.3	13.6	-132.66	125.9	-336.6	346.6	324.1	22.58	15.354		
4,465.0	4,420.8	4,533.3	4,468.0	15.5	13.8	-130.86	138.9	-346.0	341.6	319.0	22.57	15.137		
4,500.0	4,455.7	4,567.7	4,501.2	15.6	14.0	-129.78	145.8	-351.1	338.6	316.1	22.53	15.028		
4,560.0	4,515.7	4,626.3	4,558.0	15.8	14.3	-127.77	157.7	-359.7	333.2	310.8	22.40	14.875		
4,600.0	4,555.6	4,665.3	4,595.7	16.0	14.5	-126.30	165.5	-365.5	329.3	307.1	22.27	14.788		
4,647.4	4,603.0	4,711.2	4,640.2	16.0	14.7	-148.88	174.8	-372.3	324.7	302.6	22.03	14.741		
4,655.0	4,610.6	4,718.6	4,647.4	16.0	14.7	-148.58	176.3	-373.4	323.9	301.9	21.98	14.737		
4,700.0	4,655.6	4,762.2	4,689.5	16.1	14.9	-146.76	185.1	-379.8	319.7	298.0	21.70	14.730		
4,750.0	4,705.6	4,810.6	4,736.4	16.1	15.2	-144.69	194.9	-386.9	315.3	293.9	21.40	14.735		
4,800.0	4,755.6	4,859.0	4,783.3	16.1	15.4	-142.57	204.7	-394.1	311.5	290.4	21.10	14.761		
4,845.0	4,800.6	4,902.5	4,825.4	16.1	15.6	-140.62	213.5	-400.5	308.4	287.5	20.84	14.801		
4,900.0	4,855.6	4,955.8	4,877.0	16.2	15.8	-138.19	224.3	-408.4	305.1	284.6	20.53	14.866		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0														Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:		3.0 usft	
Measured	Reference	Offset													
Depth	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance				Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W		Between	Between	Minimum	Separation		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)		Centres	Ellipses	Separation	Factor		
										(usft)	(usft)	(usft)			
4,940.0	4,895.6	4,994.5	4,914.5	16.2	16.0	-136.40	232.1	-414.1		303.1	282.8	20.32	14.920		
5,000.0	4,955.6	5,052.6	4,970.7	16.2	16.3	-133.67	243.9	-422.7		300.7	280.7	20.04	15.007		
5,035.0	4,990.6	5,086.5	5,003.5	16.2	16.5	-132.06	250.7	-427.7		299.7	279.8	19.90	15.056		
5,100.0	5,055.6	5,149.4	5,064.5	16.3	16.8	-129.05	263.4	-437.0		298.4	278.7	19.72	15.134		
5,130.0	5,085.6	5,178.5	5,092.6	16.3	16.9	-127.65	269.3	-441.3		298.1	278.4	19.66	15.161		
5,162.4	5,118.0	5,209.8	5,122.9	16.3	17.0	-126.14	275.7	-445.9		298.0	278.3	19.63	15.181	CC, ES	
5,200.0	5,155.6	5,246.2	5,158.2	16.3	17.2	-124.39	283.0	-451.3		298.1	278.5	19.62	15.192		
5,225.0	5,180.6	5,270.4	5,181.6	16.4	17.3	-123.23	287.9	-454.9		298.4	278.7	19.64	15.191		
5,300.0	5,255.6	5,343.0	5,251.9	16.4	17.7	-119.75	302.6	-465.6		299.9	280.1	19.80	15.145		
5,320.0	5,275.6	5,362.4	5,270.7	16.4	17.8	-118.84	306.5	-468.4		300.6	280.7	19.88	15.122		
5,400.0	5,355.6	5,439.9	5,345.6	16.5	18.1	-115.20	322.2	-479.9		303.8	283.6	20.27	14.987		
5,415.0	5,370.6	5,454.4	5,359.7	16.5	18.2	-114.53	325.1	-482.0		304.6	284.2	20.37	14.955		
5,500.0	5,455.6	5,536.7	5,439.4	16.5	18.6	-110.78	341.8	-494.2		309.7	288.7	21.01	14.744		
5,510.0	5,465.6	5,546.4	5,448.7	16.5	18.7	-110.35	343.7	-495.6		310.4	289.3	21.09	14.716		
5,600.0	5,555.6	5,633.5	5,533.1	16.6	19.1	-106.54	361.3	-508.5		317.5	295.5	21.96	14.460		
5,605.0	5,560.6	5,638.3	5,537.8	16.6	19.1	-106.34	362.3	-509.2		317.9	295.9	22.01	14.445		
5,700.0	5,655.6	5,732.0	5,628.6	16.6	19.5	-102.48	381.1	-522.9		326.9	303.8	23.06	14.175		
5,795.0	5,750.6	5,829.6	5,723.7	16.7	20.0	-99.10	398.5	-535.6		336.1	311.9	24.13	13.929		
5,800.0	5,755.6	5,834.8	5,728.8	16.7	20.1	-98.93	399.4	-536.3		336.5	312.3	24.18	13.917		
5,890.0	5,845.6	5,928.6	5,821.0	16.7	20.5	-96.33	413.5	-546.6		344.7	319.6	25.11	13.728		
5,900.0	5,855.6	5,939.1	5,831.3	16.8	20.5	-96.08	415.0	-547.6		345.5	320.3	25.20	13.709		
5,985.0	5,940.6	6,028.8	5,920.0	16.8	21.0	-94.16	425.9	-555.7		352.2	326.3	25.97	13.565		
6,000.0	5,955.6	6,044.7	5,935.7	16.8	21.0	-93.86	427.6	-556.9		353.3	327.2	26.09	13.543		
6,080.0	6,035.6	6,130.0	6,020.4	16.9	21.4	-92.53	435.6	-562.7		358.4	331.7	26.68	13.432		
6,100.0	6,055.6	6,151.4	6,041.7	16.9	21.5	-92.25	437.3	-564.0		359.4	332.6	26.81	13.408		
6,175.0	6,130.6	6,231.9	6,122.0	16.9	21.8	-91.41	442.5	-567.8		362.8	335.6	27.24	13.321		
6,200.0	6,155.6	6,258.8	6,148.8	16.9	21.9	-91.20	443.8	-568.7		363.7	336.3	27.36	13.295		
6,270.0	6,225.6	6,334.3	6,224.2	17.0	22.2	-90.78	446.4	-570.6		365.4	337.8	27.62	13.229		
6,300.0	6,255.6	6,366.6	6,256.6	17.0	22.3	-90.68	447.1	-571.1		365.9	338.1	27.71	13.204		
6,365.0	6,320.6	6,435.6	6,325.5	17.0	22.4	-90.61	447.5	-571.4		366.1	338.3	27.81	13.164		
6,400.0	6,355.6	6,470.6	6,360.5	17.0	22.4	-90.61	447.5	-571.4		366.1	338.3	27.86	13.143		
6,460.0	6,415.6	6,530.6	6,420.5	17.1	22.4	-90.61	447.5	-571.4		366.1	338.2	27.94	13.106		
6,500.0	6,455.6	6,570.6	6,460.5	17.1	22.4	-90.61	447.5	-571.4		366.1	338.1	27.99	13.080		
6,555.0	6,510.6	6,625.6	6,515.5	17.1	22.5	-90.61	447.5	-571.4		366.1	338.1	28.07	13.044		
6,600.0	6,555.6	6,670.6	6,560.5	17.2	22.5	-90.61	447.5	-571.4		366.1	338.0	28.13	13.015		
6,650.0	6,605.6	6,720.6	6,610.5	17.2	22.5	-90.61	447.5	-571.4		366.1	337.9	28.20	12.983		
6,700.0	6,655.6	6,770.6	6,660.5	17.2	22.5	-90.61	447.5	-571.4		366.1	337.9	28.27	12.951		
6,745.0	6,700.6	6,815.6	6,705.5	17.3	22.5	-90.61	447.5	-571.4		366.1	337.8	28.33	12.922		
6,800.0	6,755.6	6,870.6	6,760.5	17.3	22.6	-90.61	447.5	-571.4		366.1	337.7	28.41	12.887		
6,840.0	6,795.6	6,910.6	6,800.5	17.3	22.6	-90.61	447.5	-571.4		366.1	337.7	28.46	12.862		
6,900.0	6,855.6	6,970.6	6,860.5	17.4	22.6	-90.61	447.5	-571.4		366.1	337.6	28.55	12.824		
6,935.0	6,890.6	7,005.6	6,895.5	17.4	22.6	-90.61	447.5	-571.4		366.1	337.5	28.60	12.803		
7,000.0	6,955.6	7,070.6	6,960.5	17.4	22.7	-90.61	447.5	-571.4		366.1	337.4	28.69	12.763		
7,001.7	6,957.3	7,072.3	6,962.2	17.4	22.7	-90.61	447.5	-571.4		366.1	337.4	28.69	12.762		
7,030.0	6,985.6	7,100.5	6,990.5	17.4	22.7	-90.62	447.4	-571.4		366.1	337.4	28.72	12.747	SF	
7,100.0	7,055.6	7,169.2	7,059.0	17.5	22.7	-91.40	442.4	-571.4		366.3	337.7	28.59	12.811		
7,125.0	7,080.6	7,193.4	7,082.8	17.5	22.7	-91.98	438.7	-571.5		366.4	337.9	28.47	12.871		
7,200.0	7,155.6	7,263.3	7,150.8	17.5	22.8	-94.53	422.4	-571.6		367.6	339.7	27.92	13.165		
7,220.0	7,175.6	7,281.2	7,167.8	17.6	22.8	-95.38	416.9	-571.6		368.2	340.4	27.74	13.271		
7,300.0	7,255.6	7,350.0	7,231.4	17.6	22.9	-99.38	390.8	-571.9		372.7	345.7	26.95	13.829		
7,315.0	7,270.6	7,360.8	7,241.1	17.6	22.9	-100.11	386.1	-571.9		374.0	347.1	26.83	13.939		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,400.0	7,355.6	7,423.8	7,295.7	17.7	22.9	-104.77	354.7	-572.1	384.9	358.8	26.06	14.767	
7,410.0	7,365.6	7,430.7	7,301.4	17.7	22.9	-105.32	350.9	-572.2	386.6	360.6	25.98	14.879	
7,500.0	7,455.6	7,487.8	7,347.3	17.7	23.0	-110.13	316.8	-572.4	407.1	381.7	25.41	16.023	
7,505.0	7,460.6	7,490.8	7,349.5	17.7	23.0	-110.39	314.9	-572.5	408.5	383.1	25.38	16.093	
7,600.0	7,555.6	7,542.0	7,387.4	17.8	23.0	-114.95	280.5	-572.7	440.7	415.6	25.08	17.572	
7,695.0	7,650.6	7,585.4	7,417.0	17.8	23.1	-118.87	248.6	-573.0	482.9	457.9	25.03	19.297	
7,700.0	7,655.6	7,587.5	7,418.4	17.8	23.1	-119.06	247.1	-573.0	485.4	460.4	25.03	19.394	
7,790.0	7,745.6	7,622.4	7,440.2	17.9	23.1	-122.18	219.9	-573.2	534.1	509.0	25.15	21.239	
7,800.0	7,755.6	7,626.0	7,442.4	17.9	23.1	-122.50	217.0	-573.2	540.0	514.8	25.17	21.455	
7,885.0	7,840.6	7,650.0	7,456.3	18.0	23.1	-124.60	197.5	-573.4	592.8	567.5	25.39	23.348	
7,900.0	7,855.6	7,650.0	7,456.3	18.0	23.1	-124.60	197.5	-573.4	602.8	577.3	25.46	23.680	
7,980.0	7,935.6	7,681.1	7,473.2	18.0	23.2	-127.25	171.3	-573.6	657.7	632.0	25.65	25.638	
8,000.0	7,955.6	7,686.4	7,475.8	18.0	23.2	-127.69	166.8	-573.6	672.0	646.3	25.72	26.132	
8,075.0	8,030.6	7,700.0	7,482.7	18.1	23.2	-128.82	155.0	-573.7	727.5	701.5	25.97	28.009	
8,100.0	8,055.6	7,700.0	7,482.7	18.1	23.2	-128.82	155.0	-573.7	746.7	720.6	26.07	28.639	
8,170.0	8,125.6	7,725.0	7,494.4	18.1	23.2	-130.83	132.9	-573.9	801.2	774.9	26.28	30.482	
8,200.0	8,155.6	7,730.9	7,497.1	18.2	23.2	-131.29	127.6	-573.9	825.2	798.8	26.39	31.272	
8,265.0	8,220.6	7,750.0	7,505.2	18.2	23.2	-132.76	110.4	-574.1	878.2	851.6	26.60	33.011	
8,300.0	8,255.6	7,750.0	7,505.2	18.2	23.2	-132.76	110.4	-574.1	907.1	880.4	26.73	33.935	
8,360.0	8,315.6	7,750.0	7,505.2	18.3	23.2	-132.76	110.4	-574.1	957.6	930.7	26.95	35.534	
8,400.0	8,355.6	7,750.0	7,505.2	18.3	23.2	-132.76	110.4	-574.1	991.9	964.8	27.09	36.611	
8,455.0	8,410.6	7,772.7	7,514.1	18.3	23.2	-134.45	89.5	-574.2	1,039.0	1,011.8	27.27	38.104	
8,500.0	8,455.6	7,778.8	7,516.4	18.4	23.2	-134.89	83.8	-574.3	1,078.3	1,050.8	27.42	39.320	
8,550.0	8,505.6	7,800.0	7,523.8	18.4	23.2	-136.38	64.0	-574.4	1,122.5	1,094.9	27.59	40.686	
8,600.0	8,555.6	7,800.0	7,523.8	18.4	23.2	-136.38	64.0	-574.4	1,166.7	1,139.0	27.76	42.025	
8,645.0	8,600.6	7,800.0	7,523.8	18.4	23.2	-136.38	64.0	-574.4	1,206.9	1,179.0	27.92	43.230	
8,700.0	8,655.6	7,800.0	7,523.8	18.5	23.2	-136.38	64.0	-574.4	1,256.4	1,228.3	28.11	44.703	
8,740.0	8,695.6	7,800.0	7,523.8	18.5	23.2	-136.38	64.0	-574.4	1,292.7	1,264.5	28.24	45.772	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.5	4.5	3.0	3.0	179.08	179.08	-299.9	4.8	299.9				
95.0	95.0	99.5	99.5	3.0	3.0	179.08	179.08	-299.9	4.8	299.9	293.9	6.02	49.839	
100.0	100.0	104.5	104.5	3.0	3.0	179.08	179.08	-299.9	4.8	299.9	293.9	6.02	49.814	
190.0	190.0	194.5	194.5	3.1	3.0	179.08	179.08	-299.9	4.8	299.9	293.8	6.13	48.897	
200.0	200.0	204.5	204.5	3.1	3.0	179.08	179.08	-299.9	4.8	299.9	293.8	6.15	48.752	
285.0	285.0	289.5	289.5	3.3	3.0	179.08	179.08	-299.9	4.8	299.9	293.7	6.27	47.873	
300.0	300.0	304.5	304.5	3.3	3.0	179.08	179.08	-299.9	4.8	299.9	293.7	6.29	47.698	
380.0	380.0	384.5	384.5	3.4	3.0	179.08	179.08	-299.9	4.8	299.9	293.5	6.40	46.874	
400.0	400.0	404.5	404.5	3.4	3.0	179.08	179.08	-299.9	4.8	299.9	293.5	6.43	46.654	
475.0	475.0	479.5	479.5	3.5	3.0	179.08	179.08	-299.9	4.8	299.9	293.4	6.54	45.888	
500.0	500.0	504.5	504.5	3.5	3.1	179.08	179.08	-299.9	4.8	299.9	293.4	6.57	45.622	
570.0	570.0	574.5	574.5	3.6	3.1	179.08	179.08	-299.9	4.8	299.9	293.3	6.68	44.914	
600.0	600.0	604.5	604.5	3.6	3.1	179.08	179.08	-299.9	4.8	299.9	293.2	6.72	44.603	
665.0	665.0	669.5	669.5	3.7	3.1	179.08	179.08	-299.9	4.8	299.9	293.1	6.82	43.954	
700.0	700.0	704.5	704.5	3.8	3.1	179.08	179.08	-299.9	4.8	299.9	293.1	6.88	43.598	
760.0	760.0	764.5	764.5	3.8	3.1	179.08	179.08	-299.9	4.8	299.9	293.0	6.97	43.009	
800.0	800.0	804.5	804.5	3.9	3.2	179.08	179.08	-299.9	4.8	299.9	292.9	7.04	42.611	
855.0	855.0	859.5	859.5	4.0	3.2	179.08	179.08	-299.9	4.8	299.9	292.8	7.13	42.079	
900.0	900.0	904.5	904.5	4.0	3.2	179.08	179.08	-299.9	4.8	299.9	292.7	7.20	41.641	
950.0	950.0	954.5	954.5	4.1	3.2	179.08	179.08	-299.9	4.8	299.9	292.7	7.29	41.167	
1,000.0	1,000.0	1,004.5	1,004.5	4.1	3.2	179.08	179.08	-299.9	4.8	299.9	292.6	7.37	40.691	
1,045.0	1,045.0	1,049.5	1,049.5	4.2	3.3	179.08	179.08	-299.9	4.8	299.9	292.5	7.45	40.273	
1,100.0	1,100.0	1,104.5	1,104.5	4.2	3.3	179.08	179.08	-299.9	4.8	299.9	292.4	7.54	39.762	
1,140.0	1,140.0	1,144.5	1,144.5	4.3	3.3	179.08	179.08	-299.9	4.8	299.9	292.3	7.61	39.398	
1,200.0	1,200.0	1,204.5	1,204.5	4.4	3.4	179.08	179.08	-299.9	4.8	299.9	292.2	7.72	38.854	
1,235.0	1,235.0	1,239.5	1,239.5	4.4	3.4	179.08	179.08	-299.9	4.8	299.9	292.2	7.78	38.543	
1,300.0	1,300.0	1,304.5	1,304.5	4.5	3.4	179.08	179.08	-299.9	4.8	299.9	292.0	7.90	37.969	
1,330.0	1,330.0	1,334.5	1,334.5	4.5	3.4	179.08	179.08	-299.9	4.8	299.9	292.0	7.95	37.709	
1,400.0	1,400.0	1,404.5	1,404.5	4.6	3.5	179.08	179.08	-299.9	4.8	299.9	291.9	8.08	37.106	
1,425.0	1,425.0	1,429.5	1,429.5	4.6	3.5	179.08	179.08	-299.9	4.8	299.9	291.8	8.13	36.896	
1,500.0	1,500.0	1,504.5	1,504.5	4.7	3.5	179.08	179.08	-299.9	4.8	299.9	291.7	8.27	36.268	
1,520.0	1,520.0	1,524.5	1,524.5	4.8	3.6	-156.47	-156.47	-299.9	4.8	300.0	291.7	8.32	36.055	
1,600.0	1,600.0	1,604.5	1,604.5	4.9	3.6	-156.58	-156.58	-299.9	4.8	301.5	293.0	8.53	35.362	
1,615.0	1,615.0	1,619.5	1,619.5	4.9	3.6	-156.62	-156.62	-299.9	4.8	302.1	293.5	8.58	35.225	
1,700.0	1,699.8	1,704.3	1,704.3	5.2	3.7	-156.93	-156.93	-299.9	4.8	306.3	297.5	8.85	34.611	
1,710.0	1,709.8	1,714.3	1,714.3	5.2	3.7	-156.98	-156.98	-299.9	4.8	307.0	298.1	8.88	34.554	
1,800.0	1,799.5	1,804.0	1,804.0	5.4	3.8	-157.49	-157.49	-299.9	4.8	314.4	305.2	9.19	34.199	
1,805.0	1,804.4	1,808.9	1,808.9	5.5	3.8	-157.52	-157.52	-299.9	4.8	314.9	305.7	9.21	34.185	
1,900.0	1,898.7	1,903.2	1,903.2	5.7	3.9	-158.23	-158.23	-299.9	4.8	325.7	316.1	9.56	34.083	
1,995.0	1,992.5	1,997.0	1,997.0	6.0	3.9	-159.05	-159.05	-299.9	4.8	339.5	329.6	9.92	34.214	
2,000.0	1,997.5	2,002.2	2,002.2	6.1	3.9	-159.10	-159.10	-299.9	4.8	340.3	330.3	9.95	34.215	
2,050.0	2,046.6	2,058.1	2,058.1	6.2	4.1	-159.66	-159.66	-299.3	4.8	348.3	338.1	10.18	34.221	
2,090.0	2,085.9	2,103.1	2,103.1	6.2	4.2	-160.16	-160.16	-298.0	4.8	354.4	344.0	10.37	34.181	
2,100.0	2,095.7	2,114.4	2,114.4	6.3	4.2	-160.29	-160.29	-297.6	4.8	355.8	345.4	10.42	34.140	
2,185.0	2,179.1	2,210.6	2,210.6	6.5	4.5	-161.34	-161.34	-292.2	4.8	366.4	355.5	10.95	33.462	
2,200.0	2,193.9	2,227.6	2,227.6	6.5	4.6	-161.52	-161.52	-290.9	4.8	368.0	357.0	11.04	33.320	
2,280.0	2,272.4	2,318.9	2,318.2	6.8	4.9	-162.52	-162.52	-282.2	4.9	375.0	363.5	11.57	32.419	
2,300.0	2,292.0	2,341.8	2,341.0	6.8	5.0	-162.77	-162.77	-279.5	4.9	376.4	364.7	11.70	32.167	
2,375.0	2,365.7	2,427.7	2,426.1	7.1	5.2	-163.73	-163.73	-268.0	5.0	380.2	368.0	12.22	31.124	
2,400.0	2,390.2	2,456.4	2,454.5	7.2	5.4	-164.06	-164.06	-263.6	5.0	381.0	368.6	12.39	30.749	
2,470.0	2,458.9	2,536.8	2,533.6	7.4	5.6	-165.01	-165.01	-249.8	5.0	382.0	369.1	12.86	29.696	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-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	
2,500.0	2,488.4	2,571.2	2,567.4	7.5	5.7	-165.43	-243.1	5.1	381.8	368.8	13.05	29.258
2,565.0	2,552.2	2,636.5	2,631.4	7.7	5.9	-166.25	-230.1	5.1	381.0	367.6	13.45	28.324
2,600.0	2,586.5	2,671.4	2,665.6	7.9	6.0	-166.68	-223.2	5.2	380.7	367.0	13.69	27.810
2,660.0	2,645.4	2,731.1	2,724.2	8.1	6.2	-167.43	-211.2	5.2	380.1	366.0	14.10	26.952
2,700.0	2,684.7	2,771.0	2,763.2	8.2	6.3	-167.93	-203.3	5.3	379.7	365.3	14.38	26.402
2,755.0	2,738.7	2,825.8	2,816.9	8.4	6.5	-168.63	-192.4	5.3	379.3	364.5	14.78	25.670
2,800.0	2,782.8	2,870.7	2,860.9	8.6	6.7	-169.19	-183.4	5.4	379.0	363.9	15.10	25.096
2,850.0	2,831.9	2,920.5	2,909.7	8.8	6.8	-169.82	-173.5	5.4	378.7	363.2	15.47	24.479
2,900.0	2,881.0	2,970.3	2,958.5	9.0	7.0	-170.46	-163.5	5.5	378.4	362.6	15.84	23.889
2,945.0	2,925.2	3,015.1	3,002.4	9.1	7.2	-171.03	-154.6	5.5	378.2	362.0	16.18	23.378
3,000.0	2,979.2	3,069.9	3,056.2	9.4	7.4	-171.72	-143.7	5.6	378.0	361.4	16.59	22.781
3,040.0	3,018.4	3,109.8	3,095.2	9.5	7.5	-172.23	-135.7	5.6	377.9	361.0	16.90	22.364
3,100.0	3,077.3	3,169.6	3,153.8	9.7	7.7	-172.99	-123.8	5.7	377.8	360.4	17.36	21.765
3,135.0	3,111.7	3,204.5	3,188.0	9.9	7.9	-173.43	-116.8	5.7	377.8	360.1	17.63	21.430
3,159.8	3,136.0	3,229.1	3,212.1	10.0	8.0	-173.75	-111.9	5.7	377.8	359.9	17.82	21.200
3,200.0	3,175.5	3,269.2	3,251.4	10.1	8.1	-174.26	-103.9	5.8	377.8	359.6	18.13	20.836
3,230.0	3,205.0	3,299.1	3,280.7	10.3	8.3	-174.64	-98.0	5.8	377.8	359.4	18.36	20.574
3,300.0	3,273.7	3,368.9	3,349.1	10.6	8.5	-175.53	-84.1	5.8	377.9	359.0	18.91	19.988
3,325.0	3,298.2	3,393.8	3,373.5	10.7	8.6	-175.84	-79.1	5.9	378.0	358.9	19.10	19.788
3,400.0	3,371.8	3,468.5	3,446.7	11.0	8.9	-176.79	-64.2	5.9	378.3	358.6	19.69	19.214
3,420.0	3,391.5	3,488.5	3,466.3	11.0	9.0	-177.05	-60.2	6.0	378.4	358.5	19.84	19.068
3,500.0	3,470.0	3,568.2	3,544.4	11.4	9.3	-178.06	-44.3	6.0	378.8	358.4	20.47	18.509
3,515.0	3,484.7	3,583.1	3,559.0	11.4	9.4	-178.25	-41.3	6.1	378.9	358.4	20.59	18.408
3,600.0	3,568.2	3,667.8	3,642.0	11.8	9.8	-179.32	-24.4	6.1	379.6	358.3	21.25	17.866
3,610.0	3,578.0	3,677.8	3,651.8	11.8	9.8	-179.44	-22.4	6.1	379.6	358.3	21.32	17.805
3,700.0	3,666.3	3,767.5	3,739.7	12.2	10.2	-179.43	-4.6	6.2	380.5	358.5	22.02	17.280
3,705.0	3,671.2	3,772.5	3,744.5	12.2	10.2	-179.37	-3.6	6.2	380.5	358.5	22.06	17.252
3,800.0	3,764.5	3,867.1	3,837.3	12.6	10.6	-178.18	15.3	6.3	381.6	358.8	22.78	16.747
3,895.0	3,857.7	3,961.8	3,930.1	13.1	11.0	-177.00	34.2	6.4	382.8	359.3	23.51	16.284
3,900.0	3,862.6	3,966.8	3,935.0	13.1	11.0	-176.94	35.2	6.4	382.8	359.3	23.54	16.261
3,990.0	3,951.0	4,056.5	4,022.8	13.5	11.4	-175.83	53.1	6.5	384.1	359.9	24.22	15.862
4,000.0	3,960.8	4,066.4	4,032.6	13.5	11.5	-175.71	55.1	6.5	384.3	360.0	24.29	15.819
4,085.0	4,044.2	4,151.1	4,115.6	13.9	11.8	-174.67	72.0	6.6	385.7	360.7	24.92	15.476
4,097.4	4,056.4	4,163.5	4,127.7	13.9	11.9	-174.52	74.4	6.6	385.9	360.9	25.01	15.429
4,100.0	4,059.0	4,166.1	4,130.2	13.9	11.9	-174.49	74.9	6.6	385.9	360.9	25.03	15.419
4,180.0	4,137.7	4,245.8	4,208.4	14.3	12.2	-173.50	90.8	6.7	386.2	360.5	25.63	15.068
4,200.0	4,157.5	4,265.7	4,227.9	14.4	12.3	-173.25	94.8	6.7	385.9	360.1	25.78	14.971
4,275.0	4,231.7	4,340.4	4,301.1	14.7	12.7	-172.27	109.7	6.8	383.7	357.4	26.31	14.587
4,300.0	4,256.5	4,365.3	4,325.4	14.8	12.8	-171.93	114.7	6.8	382.6	356.1	26.48	14.449
4,370.0	4,326.1	4,434.8	4,393.6	15.1	13.1	-170.93	128.5	6.9	378.4	351.4	26.94	14.048
4,400.0	4,356.0	4,464.6	4,422.8	15.3	13.2	-170.49	134.5	6.9	376.1	349.0	27.13	13.865
4,465.0	4,420.8	4,529.0	4,485.9	15.5	13.5	-169.46	147.3	7.0	370.1	342.6	27.50	13.460
4,500.0	4,455.7	4,563.6	4,519.8	15.6	13.6	-168.88	154.2	7.0	366.4	338.7	27.69	13.230
4,560.0	4,515.7	4,622.8	4,577.8	15.8	13.9	-167.81	166.0	7.1	359.1	331.1	27.97	12.836
4,600.0	4,555.6	4,662.1	4,616.4	16.0	14.1	-167.05	173.9	7.1	353.6	325.4	28.15	12.561
4,647.4	4,603.0	4,708.6	4,661.9	16.0	14.3	-141.62	183.1	7.1	346.5	318.2	28.25	12.264
4,655.0	4,610.6	4,716.1	4,669.2	16.0	14.3	-141.47	184.6	7.2	345.3	317.0	28.26	12.219
4,700.0	4,655.6	4,760.2	4,712.4	16.1	14.5	-140.52	193.4	7.2	338.3	310.0	28.29	11.957
4,750.0	4,705.6	4,809.2	4,760.5	16.1	14.7	-139.43	203.2	7.2	330.6	302.3	28.33	11.671
4,800.0	4,755.6	4,858.2	4,808.5	16.1	15.0	-138.28	213.0	7.3	323.1	294.7	28.34	11.399
4,845.0	4,800.6	4,902.3	4,851.7	16.1	15.2	-137.20	221.8	7.3	316.4	288.1	28.34	11.164

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
4,900.0	4,855.6	4,956.2	4,904.5	16.2	15.4	135.82	232.5	7.4	308.4	280.1	28.31	10.893	
4,940.0	4,895.6	4,995.4	4,942.9	16.2	15.6	134.78	240.3	7.4	302.7	274.4	28.28	10.705	
5,000.0	4,955.6	5,054.2	5,000.5	16.2	15.8	133.13	252.1	7.5	294.3	266.2	28.19	10.442	
5,035.0	4,990.6	5,088.5	5,034.1	16.2	16.0	132.13	258.9	7.5	289.6	261.5	28.12	10.298	
5,100.0	5,055.6	5,152.2	5,096.5	16.3	16.3	130.18	271.6	7.6	281.0	253.0	27.96	10.051	
5,130.0	5,085.6	5,181.6	5,125.3	16.3	16.4	129.25	277.5	7.6	277.2	249.3	27.87	9.946	
5,200.0	5,155.6	5,250.1	5,192.6	16.3	16.7	126.96	291.1	7.7	268.5	240.9	27.61	9.725	
5,225.0	5,180.6	5,274.6	5,216.6	16.4	16.8	126.11	296.0	7.7	265.5	238.0	27.50	9.654	
5,300.0	5,255.6	5,348.1	5,288.6	16.4	17.2	123.44	310.7	7.8	256.9	229.8	27.13	9.470	
5,320.0	5,275.6	5,367.7	5,307.8	16.4	17.3	122.70	314.6	7.8	254.7	227.7	27.02	9.428	
5,400.0	5,355.6	5,446.1	5,384.6	16.5	17.6	119.62	330.2	7.9	246.4	219.9	26.51	9.293	
5,415.0	5,370.6	5,460.8	5,399.0	16.5	17.7	119.01	333.2	7.9	244.9	218.5	26.41	9.274	
5,500.0	5,455.6	5,544.1	5,480.6	16.5	18.1	115.48	349.8	8.0	237.1	211.3	25.77	9.200	
5,510.0	5,465.6	5,553.9	5,490.2	16.5	18.1	115.05	351.7	8.0	236.3	210.6	25.69	9.195	
5,600.0	5,555.6	5,642.1	5,576.6	16.6	18.5	111.04	369.3	8.0	229.2	204.3	24.93	9.192	
5,605.0	5,560.6	5,647.0	5,581.4	16.6	18.5	110.81	370.3	8.1	228.8	203.9	24.89	9.194	
5,700.0	5,655.6	5,740.1	5,672.7	16.6	19.0	106.33	388.9	8.1	222.8	198.7	24.04	9.265	
5,795.0	5,750.6	5,833.0	5,763.7	16.7	19.4	101.65	407.4	8.2	218.2	195.0	23.21	9.400	
5,800.0	5,755.6	5,837.9	5,768.5	16.7	19.4	101.40	408.3	8.2	218.0	194.8	23.17	9.409	
5,890.0	5,845.6	5,925.4	5,854.5	16.7	19.8	97.31	424.0	8.3	215.4	192.8	22.57	9.544	
5,900.0	5,855.6	5,935.1	5,864.2	16.8	19.9	96.89	425.6	8.3	215.2	192.7	22.52	9.557	
5,985.0	5,940.6	6,018.7	5,946.8	16.8	20.2	93.63	437.8	8.4	214.1	191.9	22.21	9.641	
6,000.0	5,955.6	6,033.5	5,961.5	16.8	20.3	93.12	439.7	8.4	214.0	191.8	22.17	9.652	
6,080.0	6,035.6	6,112.8	6,040.3	16.9	20.6	90.72	448.7	8.4	213.7	191.7	22.07	9.686	
6,097.1	6,052.8	6,129.8	6,057.3	16.9	20.7	90.28	450.4	8.4	213.7	191.7	22.06	9.689	
6,100.0	6,055.6	6,132.7	6,060.1	16.9	20.7	90.21	450.6	8.4	213.7	191.7	22.06	9.690	
6,175.0	6,130.6	6,207.6	6,134.7	16.9	21.0	88.61	456.6	8.5	213.8	191.8	22.08	9.684	
6,200.0	6,155.6	6,232.6	6,159.7	16.9	21.1	88.20	458.1	8.5	213.9	191.8	22.10	9.678	
6,270.0	6,225.6	6,302.7	6,229.8	17.0	21.4	87.34	461.3	8.5	214.0	191.8	22.18	9.647	
6,300.0	6,255.6	6,332.8	6,259.9	17.0	21.4	87.12	462.2	8.5	214.1	191.8	22.23	9.631	
6,365.0	6,320.6	6,398.1	6,325.1	17.0	21.6	86.92	462.9	8.5	214.1	191.8	22.33	9.587	
6,376.6	6,332.3	6,409.7	6,336.8	17.0	21.6	86.92	462.9	8.5	214.1	191.8	22.35	9.579	
6,400.0	6,355.6	6,433.1	6,360.1	17.0	21.6	86.92	462.9	8.5	214.1	191.7	22.39	9.562	
6,460.0	6,415.6	6,493.1	6,420.1	17.1	21.6	86.92	462.9	8.5	214.1	191.6	22.49	9.518	
6,500.0	6,455.6	6,533.1	6,460.1	17.1	21.6	86.92	462.9	8.5	214.1	191.5	22.56	9.489	
6,555.0	6,510.6	6,588.1	6,515.1	17.1	21.6	86.92	462.9	8.5	214.1	191.5	22.66	9.450	
6,600.0	6,555.6	6,633.1	6,560.1	17.2	21.7	86.92	462.9	8.5	214.1	191.4	22.73	9.418	
6,650.0	6,605.6	6,683.1	6,610.1	17.2	21.7	86.92	462.9	8.5	214.1	191.3	22.82	9.382	
6,700.0	6,655.6	6,733.1	6,660.1	17.2	21.7	86.92	462.9	8.5	214.1	191.2	22.91	9.347	
6,745.0	6,700.6	6,778.1	6,705.1	17.3	21.7	86.92	462.9	8.5	214.1	191.1	22.98	9.316	
6,800.0	6,755.6	6,833.1	6,760.1	17.3	21.8	86.92	462.9	8.5	214.1	191.0	23.08	9.278	
6,840.0	6,795.6	6,873.1	6,800.1	17.3	21.8	86.92	462.9	8.5	214.1	191.0	23.15	9.251	
6,900.0	6,855.6	6,933.1	6,860.1	17.4	21.8	86.92	462.9	8.5	214.1	190.9	23.25	9.210	
6,935.0	6,890.6	6,968.1	6,895.1	17.4	21.8	86.92	462.9	8.5	214.1	190.8	23.31	9.186	
7,000.0	6,955.6	7,033.1	6,960.1	17.4	21.9	86.92	462.9	8.5	214.1	190.7	23.42	9.142	
7,030.0	6,985.6	7,063.1	6,990.1	17.4	21.9	86.92	462.9	8.5	214.1	190.6	23.47	9.123	
7,100.0	7,055.6	7,133.1	7,060.1	17.5	21.9	86.92	462.9	8.5	214.1	190.5	23.59	9.076	
7,125.0	7,080.6	7,158.1	7,085.1	17.5	21.9	86.92	462.9	8.5	214.1	190.5	23.63	9.060	
7,200.0	7,155.6	7,233.1	7,160.1	17.5	22.0	86.92	462.9	8.5	214.1	190.3	23.76	9.011	
7,220.0	7,175.6	7,253.1	7,180.1	17.6	22.0	86.92	462.9	8.5	214.1	190.3	23.79	8.998	
7,300.0	7,255.6	7,333.1	7,260.1	17.6	22.0	86.92	462.9	8.5	214.1	190.2	23.93	8.947	

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor			
7,315.0	7,270.6	7,348.1	7,275.1	17.6	22.0	86.92	462.9	8.5	214.1	190.2	23.96	8.937		
7,400.0	7,355.6	7,433.1	7,360.1	17.7	22.0	86.92	462.9	8.5	214.1	190.0	24.09	8.889		
7,410.0	7,365.6	7,443.1	7,370.1	17.7	22.0	86.92	462.9	8.5	214.1	190.0	24.10	8.884		
7,500.0	7,455.6	7,534.4	7,461.2	17.7	22.1	88.25	457.9	8.5	213.9	189.6	24.26	8.816		
7,505.0	7,460.6	7,539.4	7,466.2	17.7	22.1	88.43	457.3	8.5	213.8	189.6	24.27	8.810		
7,548.2	7,503.8	7,582.2	7,508.3	17.8	22.2	90.45	449.7	8.4	213.7	189.3	24.45	8.742 CC, ES		
7,600.0	7,555.6	7,631.8	7,556.2	17.8	22.2	93.84	437.0	8.3	214.1	189.3	24.80	8.633		
7,695.0	7,650.6	7,715.8	7,634.3	17.8	22.3	101.93	406.3	8.1	219.1	193.1	25.97	8.433		
7,700.0	7,655.6	7,719.9	7,638.0	17.8	22.3	102.39	404.5	8.0	219.5	193.5	26.05	8.427 SF		
7,790.0	7,745.6	7,789.4	7,698.5	17.9	22.4	110.85	370.2	7.8	233.8	206.2	27.54	8.488		
7,800.0	7,755.6	7,800.0	7,707.3	17.9	22.4	112.22	364.4	7.7	236.1	208.2	27.86	8.475		
7,885.0	7,840.6	7,850.0	7,747.4	18.0	22.5	118.77	334.6	7.5	261.7	233.0	28.70	9.117		
7,900.0	7,855.6	7,861.6	7,756.3	18.0	22.5	120.29	327.2	7.4	267.3	238.4	28.97	9.228		
7,980.0	7,935.6	7,900.0	7,784.8	18.0	22.5	125.21	301.4	7.2	303.0	273.8	29.20	10.376		
8,000.0	7,955.6	7,916.3	7,796.3	18.0	22.6	127.24	289.9	7.1	313.1	283.6	29.54	10.602		
8,075.0	8,030.6	7,950.0	7,819.1	18.1	22.6	131.28	265.1	6.9	355.6	326.0	29.58	12.022		
8,100.0	8,055.6	7,961.9	7,826.8	18.1	22.6	132.65	256.0	6.9	371.0	341.4	29.62	12.526		
8,170.0	8,125.6	7,989.5	7,843.9	18.1	22.6	135.67	234.4	6.7	417.1	387.5	29.55	14.117		
8,200.0	8,155.6	8,000.0	7,850.2	18.2	22.6	136.78	225.9	6.6	438.0	408.5	29.49	14.850		
8,265.0	8,220.6	8,021.9	7,862.7	18.2	22.7	138.98	207.9	6.5	485.3	455.9	29.41	16.501		
8,300.0	8,255.6	8,032.7	7,868.5	18.2	22.7	140.02	198.9	6.4	511.8	482.4	29.37	17.427		
8,360.0	8,315.6	8,050.0	7,877.7	18.3	22.7	141.63	184.2	6.3	558.5	529.2	29.31	19.055		
8,400.0	8,355.6	8,050.0	7,877.7	18.3	22.7	141.63	184.2	6.3	590.7	561.6	29.08	20.312		
8,455.0	8,410.6	8,073.6	7,889.4	18.3	22.7	143.69	163.7	6.1	635.5	606.3	29.26	21.723		
8,500.0	8,455.6	8,083.7	7,894.1	18.4	22.7	144.53	154.7	6.1	673.1	643.8	29.25	23.008		
8,550.0	8,505.6	8,100.0	7,901.4	18.4	22.7	145.83	140.2	5.9	715.5	686.2	29.35	24.377		
8,600.0	8,555.6	8,100.0	7,901.4	18.4	22.7	145.83	140.2	5.9	758.5	729.3	29.25	25.935		
8,645.0	8,600.6	8,100.0	7,901.4	18.4	22.7	145.83	140.2	5.9	797.9	768.7	29.19	27.331		
8,700.0	8,655.6	8,121.8	7,910.6	18.5	22.7	147.47	120.4	5.8	846.1	816.7	29.40	28.777		
8,740.0	8,695.6	8,128.3	7,913.2	18.5	22.7	147.94	114.5	5.7	881.7	852.2	29.46	29.931		
8,800.0	8,755.6	8,150.0	7,921.3	18.5	22.8	149.43	94.4	5.6	935.7	906.1	29.67	31.539		
8,835.0	8,790.6	8,150.0	7,921.3	18.6	22.8	149.43	94.4	5.6	967.2	937.6	29.68	32.589		
8,900.0	8,855.6	8,150.0	7,921.3	18.6	22.8	149.43	94.4	5.6	1,026.3	996.6	29.73	34.523		
8,930.0	8,885.6	8,150.0	7,921.3	18.6	22.8	149.43	94.4	5.6	1,053.9	1,024.1	29.76	35.408		
9,000.0	8,955.6	8,150.0	7,921.3	18.7	22.8	149.43	94.4	5.6	1,118.5	1,088.7	29.86	37.454		
9,025.0	8,980.6	8,150.0	7,921.3	18.7	22.8	149.43	94.4	5.6	1,141.8	1,111.9	29.91	38.178		
9,100.0	9,055.6	8,174.1	7,929.4	18.7	22.8	150.98	71.6	5.4	1,211.2	1,181.1	30.19	40.116		
9,120.0	9,075.6	8,176.2	7,930.1	18.8	22.8	151.10	69.7	5.4	1,229.9	1,199.7	30.24	40.667		
9,200.0	9,155.6	8,200.0	7,937.1	18.8	22.8	152.51	46.9	5.2	1,305.3	1,274.8	30.54	42.739		
9,215.0	9,170.6	8,200.0	7,937.1	18.8	22.8	152.51	46.9	5.2	1,319.4	1,288.8	30.57	43.156		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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	4.6	4.6	3.0	3.0	148.09	-148.4	92.4	174.8				
95.0	95.0	99.6	99.6	3.0	3.0	148.09	-148.4	92.4	174.8	168.8	6.04	28.952	
100.0	100.0	104.6	104.6	3.0	3.0	148.09	-148.4	92.4	174.8	168.8	6.04	28.921	
190.0	190.0	194.6	194.6	3.1	3.1	148.09	-148.4	92.4	174.8	168.6	6.26	27.906	
200.0	200.0	204.6	204.6	3.1	3.2	148.09	-148.4	92.4	174.8	168.5	6.30	27.765	
285.0	285.0	289.6	289.6	3.3	3.3	148.09	-148.4	92.4	174.8	168.3	6.50	26.884	
300.0	300.0	304.6	304.6	3.3	3.3	148.09	-148.4	92.4	174.8	168.3	6.54	26.719	
380.0	380.0	384.6	384.6	3.4	3.4	148.09	-148.4	92.4	174.8	168.1	6.73	25.959	
400.0	400.0	404.6	404.6	3.4	3.4	148.09	-148.4	92.4	174.8	168.0	6.79	25.764	
475.0	475.0	479.6	479.6	3.5	3.5	148.09	-148.4	92.4	174.8	167.9	6.96	25.107	
500.0	500.0	504.6	504.6	3.5	3.5	148.09	-148.4	92.4	174.8	167.8	7.02	24.886	
570.0	570.0	574.6	574.6	3.6	3.6	148.09	-148.4	92.4	174.8	167.6	7.19	24.319	
600.0	600.0	604.6	604.6	3.6	3.6	148.09	-148.4	92.4	174.8	167.6	7.26	24.076	
665.0	665.0	669.6	669.6	3.7	3.7	148.09	-148.4	92.4	174.8	167.4	7.41	23.588	
700.0	700.0	704.6	704.6	3.8	3.8	148.09	-148.4	92.4	174.8	167.3	7.49	23.326	
760.0	760.0	764.6	764.6	3.8	3.8	148.09	-148.4	92.4	174.8	167.2	7.63	22.905	
800.0	800.0	804.6	804.6	3.9	3.9	148.09	-148.4	92.4	174.8	167.1	7.73	22.627	
855.0	855.0	859.6	859.6	4.0	4.0	148.09	-148.4	92.4	174.8	167.0	7.85	22.267	
900.0	900.0	904.6	904.6	4.0	4.0	148.09	-148.4	92.4	174.8	166.9	7.95	21.976	
950.0	950.0	954.6	954.6	4.1	4.1	148.09	-148.4	92.4	174.8	166.7	8.07	21.669	
1,000.0	1,000.0	1,004.6	1,004.6	4.1	4.1	148.09	-148.4	92.4	174.8	166.6	8.18	21.366	
1,045.0	1,045.0	1,049.6	1,049.6	4.2	4.2	148.09	-148.4	92.4	174.8	166.5	8.28	21.106	
1,100.0	1,100.0	1,104.6	1,104.6	4.2	4.3	148.09	-148.4	92.4	174.8	166.4	8.41	20.794	
1,140.0	1,140.0	1,144.6	1,144.6	4.3	4.3	148.09	-148.4	92.4	174.8	166.3	8.50	20.576	
1,200.0	1,200.0	1,204.6	1,204.6	4.4	4.4	148.09	-148.4	92.4	174.8	166.2	8.63	20.255	
1,235.0	1,235.0	1,239.6	1,239.6	4.4	4.4	148.09	-148.4	92.4	174.8	166.1	8.71	20.076	
1,300.0	1,300.0	1,304.6	1,304.6	4.5	4.5	148.09	-148.4	92.4	174.8	166.0	8.85	19.747	
1,330.0	1,330.0	1,334.6	1,334.6	4.5	4.5	148.09	-148.4	92.4	174.8	165.9	8.92	19.602	
1,400.0	1,400.0	1,404.6	1,404.6	4.6	4.6	148.09	-148.4	92.4	174.8	165.7	9.07	19.267	
1,425.0	1,425.0	1,429.6	1,429.6	4.6	4.6	148.09	-148.4	92.4	174.8	165.7	9.13	19.152	
1,500.0	1,500.0	1,504.6	1,504.6	4.7	4.7	148.09	-148.4	92.4	174.8	165.5	9.29	18.811	
1,500.1	1,500.1	1,504.7	1,504.7	4.7	4.7	148.09	-148.4	92.4	174.8	165.5	9.29	18.810 CC, ES	
1,520.0	1,520.0	1,524.6	1,524.6	4.8	4.8	172.52	-148.3	92.5	174.9	165.5	9.35	18.701	
1,600.0	1,600.0	1,604.7	1,604.7	4.9	4.9	172.00	-147.3	94.0	176.5	166.9	9.58	18.425	
1,615.0	1,615.0	1,619.7	1,619.7	4.9	4.9	171.83	-147.0	94.5	177.1	167.4	9.64	18.366	
1,700.0	1,699.8	1,704.5	1,704.3	5.2	5.1	170.51	-144.4	98.5	181.7	171.7	9.98	18.194	
1,710.0	1,709.8	1,714.4	1,714.2	5.2	5.1	170.32	-144.0	99.1	182.4	172.4	10.03	18.191	
1,800.0	1,799.5	1,803.6	1,803.1	5.4	5.3	168.25	-139.6	105.8	190.5	180.1	10.39	18.331	
1,805.0	1,804.4	1,808.6	1,808.0	5.5	5.4	168.13	-139.3	106.3	191.0	180.6	10.41	18.346	
1,900.0	1,898.7	1,901.9	1,900.6	5.7	5.6	165.46	-132.9	115.9	203.3	192.5	10.81	18.810	
1,995.0	1,992.5	1,994.1	1,991.6	6.0	5.9	162.52	-125.0	127.9	219.3	208.1	11.21	19.562	
2,000.0	1,997.5	1,998.9	1,996.4	6.1	5.9	162.36	-124.6	128.6	220.2	209.0	11.23	19.610	
2,050.0	2,046.6	2,046.9	2,043.5	6.2	6.1	160.78	-119.8	135.9	230.3	218.9	11.38	20.229	
2,090.0	2,085.9	2,085.1	2,081.0	6.2	6.2	159.54	-115.7	142.1	238.9	227.4	11.51	20.764	
2,100.0	2,095.7	2,094.6	2,090.3	6.3	6.3	159.23	-114.6	143.8	241.1	229.6	11.54	20.899	
2,185.0	2,179.1	2,174.9	2,168.7	6.5	6.6	156.53	-104.9	158.5	260.3	248.4	11.87	21.934	
2,200.0	2,193.9	2,189.0	2,182.4	6.5	6.6	156.04	-103.1	161.3	263.8	251.9	11.93	22.121	
2,280.0	2,272.4	2,265.5	2,256.6	6.8	6.8	153.52	-92.9	176.7	282.9	270.7	12.26	23.083	
2,300.0	2,292.0	2,284.7	2,275.3	6.8	6.9	152.94	-90.4	180.6	287.8	275.4	12.34	23.319	
2,375.0	2,365.7	2,356.7	2,345.1	7.1	7.1	150.92	-80.8	195.2	306.2	293.6	12.67	24.167	
2,400.0	2,390.2	2,380.7	2,368.4	7.2	7.2	150.30	-77.6	200.0	312.5	299.7	12.78	24.443	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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	Distance	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,470.0	2,458.9	2,447.9	2,433.6	7.4	7.4	148.68	-68.7	213.6	330.1	316.9	13.11	25.182		
2,500.0	2,488.4	2,476.6	2,461.5	7.5	7.5	148.04	-64.9	219.4	337.7	324.4	13.25	25.489		
2,565.0	2,552.2	2,539.0	2,522.0	7.7	7.8	146.74	-56.6	232.0	354.3	340.7	13.56	26.124		
2,600.0	2,586.5	2,572.6	2,554.6	7.9	7.9	146.10	-52.1	238.8	363.3	349.6	13.73	26.455		
2,660.0	2,645.4	2,630.2	2,610.5	8.1	8.1	145.05	-44.5	250.4	378.9	364.8	14.03	26.997		
2,700.0	2,684.7	2,668.6	2,647.7	8.2	8.2	144.41	-39.4	258.2	389.3	375.1	14.24	27.346		
2,755.0	2,738.7	2,721.3	2,698.9	8.4	8.4	143.57	-32.3	268.8	403.7	389.2	14.52	27.804		
2,800.0	2,782.8	2,764.5	2,740.8	8.6	8.6	142.93	-26.6	277.6	415.6	400.8	14.75	28.164		
2,850.0	2,831.9	2,812.5	2,787.4	8.8	8.8	142.25	-20.2	287.3	428.8	413.8	15.02	28.548		
2,900.0	2,881.0	2,860.5	2,833.9	9.0	9.0	141.62	-13.8	296.9	442.1	426.8	15.29	28.916		
2,945.0	2,925.2	2,903.7	2,875.8	9.1	9.2	141.08	-8.1	305.7	454.0	438.5	15.53	29.233		
3,000.0	2,979.2	2,956.5	2,927.1	9.4	9.4	140.46	-1.1	316.3	468.7	452.9	15.83	29.605		
3,040.0	3,018.4	2,994.8	2,964.3	9.5	9.5	140.03	4.0	324.1	479.5	463.4	16.05	29.865		
3,100.0	3,077.3	3,052.4	3,020.2	9.7	9.8	139.43	11.7	335.7	495.6	479.2	16.39	30.239		
3,135.0	3,111.7	3,086.0	3,052.8	9.9	9.9	139.09	16.1	342.5	505.0	488.4	16.59	30.448		
3,200.0	3,175.5	3,148.4	3,113.3	10.1	10.2	138.50	24.4	355.1	522.6	505.6	16.95	30.821		
3,230.0	3,205.0	3,177.2	3,141.2	10.3	10.3	138.24	28.3	360.9	530.7	513.6	17.13	30.987		
3,300.0	3,273.7	3,244.3	3,206.4	10.6	10.6	137.66	37.2	374.5	549.7	532.1	17.53	31.357		
3,325.0	3,298.2	3,268.3	3,229.7	10.7	10.7	137.47	40.4	379.4	556.5	538.8	17.67	31.484		
3,400.0	3,371.8	3,340.3	3,299.5	11.0	11.0	136.90	49.9	393.9	576.9	558.7	18.11	31.851		
3,420.0	3,391.5	3,359.5	3,318.1	11.0	11.1	136.76	52.5	397.8	582.3	564.1	18.23	31.944		
3,500.0	3,470.0	3,436.3	3,392.6	11.4	11.4	136.21	62.7	413.3	604.1	585.4	18.70	32.306		
3,515.0	3,484.7	3,450.7	3,406.6	11.4	11.5	136.11	64.6	416.2	608.2	589.4	18.79	32.371		
3,600.0	3,568.2	3,532.2	3,485.7	11.8	11.8	135.58	75.4	432.7	631.5	612.2	19.30	32.727		
3,610.0	3,578.0	3,541.8	3,495.0	11.8	11.9	135.52	76.7	434.6	634.2	614.9	19.36	32.767		
3,700.0	3,666.3	3,628.2	3,578.8	12.2	12.2	135.00	88.2	452.1	658.9	639.0	19.90	33.117		
3,705.0	3,671.2	3,633.0	3,583.5	12.2	12.3	134.97	88.8	453.0	660.3	640.4	19.93	33.135		
3,800.0	3,764.5	3,724.1	3,672.0	12.6	12.7	134.47	101.0	471.5	686.4	665.9	20.50	33.478		
3,895.0	3,857.7	3,815.3	3,760.4	13.1	13.1	134.00	113.1	489.9	712.5	691.5	21.08	33.798		
3,900.0	3,862.6	3,820.1	3,765.1	13.1	13.1	133.98	113.7	490.8	713.9	692.8	21.11	33.814		
3,990.0	3,951.0	3,906.5	3,848.9	13.5	13.5	133.56	125.2	508.3	738.7	717.1	21.67	34.096		
4,000.0	3,960.8	3,916.1	3,858.2	13.5	13.5	133.52	126.5	510.2	741.5	719.8	21.73	34.126		
4,085.0	4,044.2	3,997.6	3,937.3	13.9	13.9	133.16	137.3	526.7	765.0	742.7	22.25	34.378		
4,097.4	4,056.4	4,009.5	3,948.9	13.9	13.9	133.11	138.9	529.1	768.4	746.1	22.32	34.421		
4,100.0	4,059.0	4,012.0	3,951.3	13.9	13.9	133.11	139.2	529.6	769.1	746.8	22.34	34.433		
4,180.0	4,137.7	4,103.0	4,039.9	14.3	14.4	133.04	150.7	547.0	789.8	766.9	22.91	34.475		
4,200.0	4,157.5	4,126.4	4,062.7	14.4	14.5	133.03	153.3	551.1	794.5	771.5	23.06	34.456		
4,275.0	4,231.7	4,214.7	4,149.4	14.7	14.9	132.96	162.6	565.1	810.5	786.9	23.60	34.340		
4,300.0	4,256.5	4,244.4	4,178.6	14.8	15.0	132.94	165.4	569.3	815.3	791.5	23.78	34.283		
4,370.0	4,326.1	4,328.1	4,261.4	15.1	15.4	132.88	172.3	579.9	826.9	802.7	24.26	34.090		
4,400.0	4,356.0	4,364.2	4,297.2	15.3	15.6	132.85	174.8	583.8	831.2	806.8	24.46	33.987		
4,465.0	4,420.8	4,442.9	4,375.4	15.5	15.9	132.80	179.6	591.0	838.9	814.1	24.86	33.745		
4,500.0	4,455.7	4,485.5	4,417.8	15.6	16.1	132.76	181.7	594.2	842.2	817.1	25.07	33.591		
4,560.0	4,515.7	4,558.7	4,490.9	15.8	16.3	132.71	184.4	598.4	846.4	821.0	25.40	33.330		
4,600.0	4,555.6	4,607.6	4,539.8	16.0	16.5	132.67	185.7	600.3	848.3	822.7	25.61	33.127		
4,647.4	4,603.0	4,665.7	4,597.8	16.0	16.7	108.16	186.6	601.7	849.4	823.6	25.76	32.973		
4,655.0	4,610.6	4,675.0	4,607.1	16.0	16.7	108.16	186.7	601.8	849.5	823.7	25.78	32.950		
4,700.0	4,655.6	4,728.1	4,660.2	16.1	16.8	108.14	186.9	602.1	849.6	823.8	25.86	32.858		
4,750.0	4,705.6	4,778.1	4,710.2	16.1	16.8	108.14	186.9	602.1	849.6	823.7	25.92	32.783		
4,800.0	4,755.6	4,828.1	4,760.2	16.1	16.9	108.14	186.9	602.1	849.6	823.6	25.98	32.704		
4,845.0	4,800.6	4,873.1	4,805.2	16.1	16.9	108.14	186.9	602.1	849.6	823.6	26.04	32.629		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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	
4,900.0	4,855.6	4,928.1	4,860.2	16.2	16.9	108.14	186.9	602.1	849.6	823.5	26.11	32.539		
4,940.0	4,895.6	4,968.1	4,900.2	16.2	16.9	108.14	186.9	602.1	849.6	823.5	26.16	32.473		
5,000.0	4,955.6	5,028.1	4,960.2	16.2	17.0	108.14	186.9	602.1	849.6	823.4	26.24	32.374		
5,035.0	4,990.6	5,063.1	4,995.2	16.2	17.0	108.14	186.9	602.1	849.6	823.3	26.29	32.317		
5,100.0	5,055.6	5,128.1	5,060.2	16.3	17.0	108.14	186.9	602.1	849.6	823.2	26.38	32.211		
5,130.0	5,085.6	5,158.1	5,090.2	16.3	17.0	108.14	186.9	602.1	849.6	823.2	26.42	32.163		
5,200.0	5,155.6	5,228.1	5,160.2	16.3	17.1	108.14	186.9	602.1	849.6	823.1	26.51	32.049		
5,225.0	5,180.6	5,253.1	5,185.2	16.4	17.1	108.14	186.9	602.1	849.6	823.1	26.54	32.009		
5,300.0	5,255.6	5,328.1	5,260.2	16.4	17.1	108.14	186.9	602.1	849.6	823.0	26.64	31.889		
5,320.0	5,275.6	5,348.1	5,280.2	16.4	17.1	108.14	186.9	602.1	849.6	823.0	26.67	31.857		
5,400.0	5,355.6	5,428.1	5,360.2	16.5	17.2	108.14	186.9	602.1	849.6	822.8	26.78	31.729		
5,415.0	5,370.6	5,443.1	5,375.2	16.5	17.2	108.14	186.9	602.1	849.6	822.8	26.80	31.706		
5,500.0	5,455.6	5,528.1	5,460.2	16.5	17.2	108.14	186.9	602.1	849.6	822.7	26.91	31.571		
5,510.0	5,465.6	5,538.1	5,470.2	16.5	17.2	108.14	186.9	602.1	849.6	822.7	26.92	31.555		
5,600.0	5,555.6	5,628.1	5,560.2	16.6	17.3	108.14	186.9	602.1	849.6	822.6	27.05	31.414		
5,605.0	5,560.6	5,633.1	5,565.2	16.6	17.3	108.14	186.9	602.1	849.6	822.6	27.05	31.406		
5,700.0	5,655.6	5,728.1	5,660.2	16.6	17.3	108.14	186.9	602.1	849.6	822.4	27.18	31.258		
5,795.0	5,750.6	5,823.1	5,755.2	16.7	17.4	108.14	186.9	602.1	849.6	822.3	27.31	31.112		
5,800.0	5,755.6	5,828.1	5,760.2	16.7	17.4	108.14	186.9	602.1	849.6	822.3	27.32	31.104		
5,890.0	5,845.6	5,918.1	5,850.2	16.7	17.4	108.14	186.9	602.1	849.6	822.2	27.44	30.966		
5,900.0	5,855.6	5,928.1	5,860.2	16.8	17.4	108.14	186.9	602.1	849.6	822.2	27.45	30.950		
5,985.0	5,940.6	6,013.1	5,945.2	16.8	17.5	108.14	186.9	602.1	849.6	822.1	27.57	30.821		
6,000.0	5,955.6	6,028.1	5,960.2	16.8	17.5	108.14	186.9	602.1	849.6	822.0	27.59	30.798		
6,080.0	6,035.6	6,108.1	6,040.2	16.9	17.5	108.14	186.9	602.1	849.6	821.9	27.70	30.677		
6,100.0	6,055.6	6,128.1	6,060.2	16.9	17.5	108.14	186.9	602.1	849.6	821.9	27.72	30.647		
6,175.0	6,130.6	6,203.1	6,135.2	16.9	17.6	108.14	186.9	602.1	849.6	821.8	27.82	30.535		
6,200.0	6,155.6	6,228.1	6,160.2	16.9	17.6	108.14	186.9	602.1	849.6	821.8	27.86	30.497		
6,270.0	6,225.6	6,298.1	6,230.2	17.0	17.6	108.14	186.9	602.1	849.6	821.7	27.95	30.393		
6,300.0	6,255.6	6,328.1	6,260.2	17.0	17.6	108.14	186.9	602.1	849.6	821.6	28.00	30.348		
6,365.0	6,320.6	6,393.1	6,325.2	17.0	17.7	108.14	186.9	602.1	849.6	821.5	28.08	30.252		
6,400.0	6,355.6	6,428.1	6,360.2	17.0	17.7	108.14	186.9	602.1	849.6	821.5	28.13	30.201		
6,460.0	6,415.6	6,488.1	6,420.2	17.1	17.7	108.14	186.9	602.1	849.6	821.4	28.21	30.113		
6,500.0	6,455.6	6,528.1	6,460.2	17.1	17.7	108.14	186.9	602.1	849.6	821.4	28.27	30.054		
6,555.0	6,510.6	6,583.1	6,515.2	17.1	17.8	108.14	186.9	602.1	849.6	821.3	28.34	29.974		
6,600.0	6,555.6	6,628.1	6,560.2	17.2	17.8	108.14	186.9	602.1	849.6	821.2	28.41	29.909		
6,650.0	6,605.6	6,678.1	6,610.2	17.2	17.8	108.14	186.9	602.1	849.6	821.1	28.48	29.837		
6,700.0	6,655.6	6,728.1	6,660.2	17.2	17.9	108.14	186.9	602.1	849.6	821.1	28.54	29.765		
6,745.0	6,700.6	6,773.1	6,705.2	17.3	17.9	108.14	186.9	602.1	849.6	821.0	28.61	29.700		
6,800.0	6,755.6	6,828.1	6,760.2	17.3	17.9	108.14	186.9	602.1	849.6	820.9	28.68	29.622		
6,840.0	6,795.6	6,868.1	6,800.2	17.3	17.9	108.14	186.9	602.1	849.6	820.9	28.74	29.565		
6,900.0	6,855.6	6,928.1	6,860.2	17.4	18.0	108.14	186.9	602.1	849.6	820.8	28.82	29.480		
6,935.0	6,890.6	6,963.1	6,895.2	17.4	18.0	108.14	186.9	602.1	849.6	820.8	28.87	29.430		
7,000.0	6,955.6	7,028.1	6,960.2	17.4	18.0	108.14	186.9	602.1	849.6	820.7	28.96	29.339		
7,030.0	6,985.6	7,058.1	6,990.2	17.4	18.0	108.14	186.9	602.1	849.6	820.6	29.00	29.297		
7,100.0	7,055.6	7,128.1	7,060.2	17.5	18.1	108.14	186.9	602.1	849.6	820.5	29.10	29.199		
7,125.0	7,080.6	7,153.1	7,085.2	17.5	18.1	108.14	186.9	602.1	849.6	820.5	29.13	29.164		
7,200.0	7,155.6	7,228.1	7,160.2	17.5	18.1	108.14	186.9	602.1	849.6	820.4	29.24	29.060		
7,220.0	7,175.6	7,248.1	7,180.2	17.6	18.1	108.14	186.9	602.1	849.6	820.4	29.26	29.032		
7,300.0	7,255.6	7,328.1	7,260.2	17.6	18.2	108.14	186.9	602.1	849.6	820.2	29.38	28.922		
7,315.0	7,270.6	7,343.1	7,275.2	17.6	18.2	108.14	186.9	602.1	849.6	820.2	29.40	28.902		
7,400.0	7,355.6	7,428.1	7,360.2	17.7	18.2	108.14	186.9	602.1	849.6	820.1	29.52	28.786		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,410.0	7,365.6	7,438.1	7,370.2	17.7	18.2	108.14	186.9	602.1	849.6	820.1	29.53	28.772	
7,500.0	7,455.6	7,528.1	7,460.2	17.7	18.3	108.14	186.9	602.1	849.6	820.0	29.66	28.650	
7,505.0	7,460.6	7,533.1	7,465.2	17.7	18.3	108.14	186.9	602.1	849.6	820.0	29.66	28.643	
7,600.0	7,555.6	7,628.1	7,560.2	17.8	18.4	108.14	186.9	602.1	849.6	819.8	29.80	28.515	
7,695.0	7,650.6	7,723.1	7,655.2	17.8	18.4	108.14	186.9	602.1	849.6	819.7	29.93	28.389	
7,700.0	7,655.6	7,728.1	7,660.2	17.8	18.4	108.14	186.9	602.1	849.6	819.7	29.94	28.382	
7,790.0	7,745.6	7,818.1	7,750.2	17.9	18.5	108.14	186.9	602.1	849.6	819.6	30.06	28.263	
7,800.0	7,755.6	7,828.1	7,760.2	17.9	18.5	108.14	186.9	602.1	849.6	819.5	30.08	28.249	
7,885.0	7,840.6	7,913.1	7,845.2	18.0	18.5	108.14	186.9	602.1	849.6	819.4	30.20	28.138	
7,900.0	7,855.6	7,928.1	7,860.2	18.0	18.5	108.14	186.9	602.1	849.6	819.4	30.22	28.118	
7,980.0	7,935.6	8,008.1	7,940.2	18.0	18.6	108.14	186.9	602.1	849.6	819.3	30.33	28.013	
8,000.0	7,955.6	8,028.1	7,960.2	18.0	18.6	108.14	186.9	602.1	849.6	819.3	30.36	27.987	
8,075.0	8,030.6	8,103.1	8,035.2	18.1	18.6	108.14	186.9	602.1	849.6	819.2	30.46	27.890	
8,100.0	8,055.6	8,128.1	8,060.2	18.1	18.6	108.14	186.9	602.1	849.6	819.1	30.50	27.858	
8,170.0	8,125.6	8,198.1	8,130.2	18.1	18.7	108.14	186.9	602.1	849.6	819.0	30.60	27.768	
8,200.0	8,155.6	8,228.1	8,160.2	18.2	18.7	108.14	186.9	602.1	849.6	819.0	30.64	27.730	
8,265.0	8,220.6	8,293.1	8,225.2	18.2	18.7	108.14	186.9	602.1	849.6	818.9	30.73	27.647	
8,300.0	8,255.6	8,328.1	8,260.2	18.2	18.8	108.14	186.9	602.1	849.6	818.8	30.78	27.602	
8,360.0	8,315.6	8,388.1	8,320.2	18.3	18.8	108.14	186.9	602.1	849.6	818.8	30.87	27.526	
8,400.0	8,355.6	8,428.1	8,360.2	18.3	18.8	108.14	186.9	602.1	849.6	818.7	30.92	27.481	
8,455.0	8,410.6	8,483.1	8,415.2	18.3	18.8	108.14	186.9	602.1	849.6	818.6	30.98	27.421	
8,500.0	8,455.6	8,512.5	8,444.6	18.4	18.8	108.18	186.3	602.2	850.0	819.0	31.03	27.390	
8,550.0	8,505.6	8,550.0	8,482.0	18.4	18.9	108.36	183.3	602.4	851.5	820.4	31.09	27.389	
8,600.0	8,555.6	8,574.9	8,506.6	18.4	18.9	108.56	180.0	602.7	854.1	822.9	31.15	27.420	
8,645.0	8,600.6	8,600.0	8,531.4	18.4	18.9	108.84	175.6	603.1	857.3	826.2	31.20	27.482	
8,700.0	8,655.6	8,635.1	8,565.6	18.5	18.9	109.32	167.7	603.8	862.7	831.4	31.25	27.601	
8,740.0	8,695.6	8,650.0	8,579.9	18.5	18.9	109.57	163.7	604.2	867.5	836.2	31.30	27.717	
8,800.0	8,755.6	8,700.0	8,627.2	18.5	18.9	110.54	147.5	605.6	876.2	844.8	31.36	27.940	
8,835.0	8,790.6	8,711.3	8,637.7	18.6	18.9	110.79	143.3	606.0	882.0	850.6	31.40	28.092	
8,900.0	8,855.6	8,750.0	8,672.9	18.6	19.0	111.74	127.4	607.5	894.8	863.4	31.47	28.435	
8,930.0	8,885.6	8,750.0	8,672.9	18.6	19.0	111.74	127.4	607.5	901.6	870.1	31.51	28.615	
9,000.0	8,955.6	8,800.0	8,716.6	18.7	19.0	113.13	103.3	609.6	919.0	887.5	31.59	29.096	
9,025.0	8,980.6	8,800.0	8,716.6	18.7	19.0	113.13	103.3	609.6	926.0	894.4	31.62	29.283	
9,100.0	9,055.6	8,850.0	8,758.1	18.7	19.0	114.69	75.5	612.1	949.1	917.4	31.72	29.920	
9,120.0	9,075.6	8,850.0	8,758.1	18.8	19.0	114.69	75.5	612.1	955.6	923.9	31.75	30.096	
9,200.0	9,155.6	8,878.3	8,780.4	18.8	19.0	115.64	58.2	613.7	984.7	952.8	31.88	30.884	
9,215.0	9,170.6	8,883.9	8,784.8	18.8	19.0	115.84	54.7	614.0	990.5	958.6	31.91	31.045	
9,257.4	9,213.0	8,900.0	8,797.0	18.8	19.1	116.40	44.3	615.0	1,007.7	975.8	31.97	31.518	
9,300.0	9,255.6	8,914.6	8,807.8	18.9	19.1	-61.86	34.5	615.8	1,025.4	993.5	31.90	32.147	
9,310.0	9,265.6	8,918.2	8,810.5	18.9	19.1	-61.35	32.0	616.1	1,029.5	997.6	31.91	32.260	
9,350.0	9,305.2	8,932.9	8,821.0	18.9	19.1	-59.40	21.9	617.0	1,045.6	1,013.6	31.98	32.696	
9,400.0	9,354.2	8,950.0	8,833.0	19.0	19.1	-57.16	9.7	618.1	1,065.1	1,033.0	32.07	33.208	
9,405.0	9,359.0	8,950.0	8,833.0	19.0	19.1	-56.98	9.7	618.1	1,067.0	1,034.9	32.08	33.256	
9,450.0	9,402.0	8,970.2	8,846.7	19.1	19.1	-55.06	-5.1	619.4	1,083.6	1,051.5	32.18	33.676	
9,500.0	9,448.5	9,000.0	8,865.9	19.1	19.1	-53.01	-27.8	621.4	1,101.2	1,068.9	32.29	34.107	
9,550.0	9,493.1	9,000.0	8,865.9	19.2	19.1	-51.65	-27.8	621.4	1,117.4	1,085.0	32.43	34.459	
9,595.0	9,531.4	9,025.8	8,881.5	19.2	19.2	-50.23	-48.2	623.3	1,130.8	1,098.3	32.55	34.745	
9,600.0	9,535.6	9,027.7	8,882.6	19.3	19.2	-50.09	-49.8	623.4	1,132.2	1,099.7	32.56	34.773	
9,650.0	9,575.6	9,050.0	8,895.3	19.3	19.2	-48.82	-68.0	625.1	1,145.7	1,113.0	32.71	35.028	
9,690.0	9,605.7	9,050.0	8,895.3	19.4	19.2	-48.06	-68.0	625.1	1,155.5	1,122.6	32.85	35.176	
9,700.0	9,612.9	9,066.8	8,904.4	19.4	19.2	-47.79	-82.1	626.3	1,157.6	1,124.7	32.87	35.216	

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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
9,750.0	9,647.2	9,100.0	8,921.1	19.4	19.2	-46.86	-110.6	628.9	1,168.0	1,135.0	33.03	35.367	
9,785.0	9,669.2	9,100.0	8,921.1	19.5	19.2	-46.42	-110.6	628.9	1,174.0	1,140.9	33.16	35.401	
9,800.0	9,678.1	9,100.0	8,921.1	19.5	19.2	-46.24	-110.6	628.9	1,176.4	1,143.2	33.22	35.410	
9,850.0	9,705.5	9,126.0	8,933.0	19.6	19.3	-45.72	-133.6	631.0	1,183.3	1,149.8	33.40	35.423	
9,880.0	9,720.2	9,150.0	8,943.1	19.6	19.3	-45.51	-155.4	632.9	1,186.7	1,153.2	33.50	35.418	
9,900.0	9,729.1	9,150.0	8,943.1	19.6	19.3	-45.39	-155.4	632.9	1,188.3	1,154.8	33.59	35.378	
9,950.0	9,748.9	9,165.5	8,949.1	19.6	19.3	-45.21	-169.6	634.2	1,191.6	1,157.8	33.79	35.263	
9,975.0	9,757.2	9,175.4	8,952.8	19.7	19.3	-45.18	-178.8	635.1	1,192.6	1,158.7	33.89	35.187	
10,000.0	9,764.5	9,200.0	8,961.1	19.7	19.3	-45.27	-201.8	637.1	1,193.3	1,159.3	33.97	35.123	
10,050.0	9,776.0	9,200.0	8,961.1	19.7	19.3	-45.31	-201.8	637.1	1,192.8	1,158.6	34.20	34.876	
10,070.0	9,779.3	9,200.0	8,961.1	19.7	19.3	-45.35	-201.8	637.1	1,192.3	1,158.0	34.29	34.768	
10,100.0	9,783.1	9,224.8	8,968.5	19.7	19.4	-45.67	-225.4	639.3	1,190.6	1,156.2	34.40	34.615	
10,150.0	9,786.0	9,250.0	8,975.0	19.8	19.4	-46.21	-249.6	641.4	1,186.8	1,152.2	34.59	34.311	
10,157.1	9,786.0	9,250.0	8,975.0	19.8	19.4	-46.26	-249.6	641.4	1,186.1	1,151.5	34.62	34.263	
10,165.0	9,786.0	9,250.0	8,975.0	19.8	19.4	-46.26	-249.6	641.4	1,185.3	1,150.7	34.65	34.210	
10,200.0	9,786.0	9,250.0	8,975.0	19.8	19.4	-46.26	-249.6	641.4	1,182.5	1,147.7	34.79	33.993	
10,260.0	9,786.1	9,300.0	8,984.6	19.8	19.5	-46.76	-298.5	645.8	1,178.7	1,143.7	34.99	33.691	
10,300.0	9,786.1	9,300.0	8,984.6	19.8	19.5	-46.76	-298.5	645.8	1,177.1	1,141.9	35.16	33.478	
10,352.2	9,786.1	9,325.7	8,987.8	19.9	19.5	-46.96	-323.9	648.1	1,176.4	1,141.0	35.38	33.249	
10,355.0	9,786.1	9,326.9	8,988.0	19.9	19.5	-46.97	-325.0	648.2	1,176.4	1,141.0	35.39	33.238	
10,400.0	9,786.1	9,350.0	8,989.9	19.9	19.5	-47.11	-348.0	650.3	1,177.0	1,141.4	35.58	33.076	
10,450.0	9,786.2	9,366.1	8,990.7	19.9	19.5	-47.19	-364.0	651.8	1,178.8	1,143.0	35.82	32.909	
10,500.0	9,786.2	9,389.9	8,991.0	19.9	19.6	-47.28	-387.7	653.9	1,181.8	1,145.8	36.05	32.787	
10,545.0	9,786.2	9,454.3	8,991.0	20.0	19.7	-47.46	-451.9	658.9	1,184.7	1,148.4	36.24	32.688	
10,600.0	9,786.2	9,533.4	8,991.1	20.0	19.8	-47.62	-530.9	663.0	1,187.1	1,150.6	36.50	32.523	
10,640.0	9,786.3	9,591.0	8,991.1	20.0	19.9	-47.69	-588.5	664.6	1,188.2	1,151.5	36.72	32.363	
10,700.0	9,786.3	9,677.6	8,991.1	20.1	20.1	-47.72	-675.1	664.9	1,188.7	1,151.7	37.04	32.089	
10,702.1	9,786.3	9,680.6	8,991.1	20.1	20.1	-47.72	-678.1	664.8	1,188.7	1,151.7	37.06	32.079	
10,735.0	9,786.3	9,709.3	8,991.2	20.1	20.2	-47.72	-706.8	664.6	1,188.7	1,151.5	37.26	31.908	
10,800.0	9,786.3	9,774.3	8,991.2	20.2	20.3	-47.72	-771.8	664.1	1,188.7	1,151.1	37.66	31.564	
10,830.0	9,786.4	9,804.3	8,991.2	20.2	20.3	-47.72	-801.7	663.8	1,188.7	1,150.9	37.86	31.401	
10,900.0	9,786.4	9,874.3	8,991.2	20.3	20.5	-47.72	-871.7	663.3	1,188.7	1,150.4	38.33	31.013	
10,925.0	9,786.4	9,899.3	8,991.2	20.3	20.6	-47.72	-896.7	663.1	1,188.7	1,150.2	38.50	30.873	
11,000.0	9,786.4	9,974.3	8,991.3	20.4	20.7	-47.72	-971.7	662.4	1,188.7	1,149.7	39.05	30.443	
11,020.0	9,786.5	9,994.3	8,991.3	20.4	20.8	-47.72	-991.7	662.3	1,188.7	1,149.6	39.20	30.327	
11,100.0	9,786.5	10,074.3	8,991.3	20.5	21.0	-47.72	-1,071.7	661.6	1,188.8	1,148.9	39.81	29.857	
11,115.0	9,786.5	10,089.3	8,991.3	20.6	21.0	-47.72	-1,086.7	661.5	1,188.8	1,148.8	39.93	29.768	
11,200.0	9,786.5	10,174.3	8,991.4	20.7	21.3	-47.72	-1,171.7	660.8	1,188.8	1,148.1	40.62	29.262	
11,210.0	9,786.6	10,184.3	8,991.4	20.7	21.3	-47.72	-1,181.7	660.7	1,188.8	1,148.1	40.71	29.202	
11,300.0	9,786.6	10,274.3	8,991.4	20.9	21.6	-47.72	-1,271.7	660.0	1,188.8	1,147.3	41.48	28.661	
11,305.0	9,786.6	10,279.3	8,991.4	20.9	21.6	-47.72	-1,276.7	659.9	1,188.8	1,147.2	41.52	28.630	
11,400.0	9,786.7	10,374.3	8,991.5	21.1	21.9	-47.72	-1,371.7	659.1	1,188.8	1,146.4	42.37	28.058	
11,495.0	9,786.7	10,469.3	8,991.5	21.4	22.2	-47.72	-1,466.7	658.4	1,188.8	1,145.5	43.25	27.486	
11,500.0	9,786.7	10,474.3	8,991.5	21.4	22.3	-47.72	-1,471.7	658.3	1,188.8	1,145.5	43.30	27.456	
11,590.0	9,786.8	10,564.3	8,991.5	21.6	22.6	-47.72	-1,561.7	657.6	1,188.8	1,144.6	44.16	26.918	
11,600.0	9,786.8	10,574.3	8,991.6	21.7	22.6	-47.72	-1,571.7	657.5	1,188.8	1,144.5	44.26	26.859	
11,685.0	9,786.8	10,659.3	8,991.6	21.9	23.0	-47.72	-1,656.7	656.8	1,188.8	1,143.7	45.11	26.356	
11,700.0	9,786.8	10,674.3	8,991.6	22.0	23.0	-47.72	-1,671.7	656.7	1,188.8	1,143.5	45.26	26.268	
11,780.0	9,786.9	10,754.3	8,991.6	22.3	23.3	-47.72	-1,751.7	656.0	1,188.8	1,142.7	46.08	25.801	
11,800.0	9,786.9	10,774.3	8,991.6	22.4	23.4	-47.72	-1,771.7	655.8	1,188.8	1,142.5	46.28	25.686	
11,875.0	9,786.9	10,849.3	8,991.7	22.7	23.7	-47.72	-1,846.7	655.2	1,188.8	1,141.7	47.07	25.256	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,900.0	9,786.9	10,874.3	8,991.7	22.8	23.8	-47.72	-1,871.7	655.0	1,188.8	1,141.5	47.34	25.114		
11,970.0	9,787.0	10,944.3	8,991.7	23.1	24.2	-47.72	-1,941.7	654.4	1,188.8	1,140.7	48.09	24.720		
12,000.0	9,787.0	10,974.3	8,991.7	23.2	24.3	-47.72	-1,971.7	654.2	1,188.8	1,140.4	48.42	24.554		
12,065.0	9,787.0	11,039.3	8,991.8	23.5	24.6	-47.72	-2,036.7	653.6	1,188.8	1,139.7	49.13	24.196		
12,100.0	9,787.0	11,074.3	8,991.8	23.7	24.7	-47.72	-2,071.7	653.4	1,188.8	1,139.3	49.52	24.006		
12,160.0	9,787.0	11,134.3	8,991.8	24.0	25.0	-47.72	-2,131.7	652.9	1,188.8	1,138.6	50.20	23.683		
12,200.0	9,787.1	11,174.3	8,991.8	24.2	25.2	-47.72	-2,171.7	652.5	1,188.8	1,138.2	50.65	23.471		
12,255.0	9,787.1	11,229.3	8,991.9	24.5	25.5	-47.72	-2,226.7	652.1	1,188.8	1,137.5	51.28	23.182		
12,300.0	9,787.1	11,274.3	8,991.9	24.7	25.7	-47.72	-2,271.7	651.7	1,188.8	1,137.0	51.80	22.950		
12,350.0	9,787.1	11,324.3	8,991.9	25.0	26.0	-47.72	-2,321.7	651.3	1,188.8	1,136.4	52.38	22.694		
12,400.0	9,787.2	11,374.3	8,991.9	25.3	26.2	-47.72	-2,371.7	650.9	1,188.8	1,135.9	52.97	22.443		
12,445.0	9,787.2	11,419.3	8,991.9	25.6	26.5	-47.72	-2,416.7	650.5	1,188.8	1,135.3	53.50	22.219		
12,500.0	9,787.2	11,474.3	8,992.0	25.9	26.8	-47.72	-2,471.7	650.1	1,188.8	1,134.7	54.16	21.950		
12,540.0	9,787.2	11,514.3	8,992.0	26.1	27.0	-47.72	-2,511.7	649.7	1,188.8	1,134.2	54.64	21.757		
12,600.0	9,787.3	11,574.3	8,992.0	26.5	27.3	-47.72	-2,571.7	649.2	1,188.8	1,133.5	55.37	21.472		
12,635.0	9,787.3	11,609.3	8,992.0	26.7	27.5	-47.72	-2,606.7	648.9	1,188.8	1,133.0	55.79	21.308		
12,700.0	9,787.3	11,674.3	8,992.1	27.0	27.8	-47.72	-2,671.7	648.4	1,188.8	1,132.3	56.59	21.008		
12,730.0	9,787.3	11,704.3	8,992.1	27.2	28.0	-47.72	-2,701.7	648.2	1,188.8	1,131.9	56.96	20.871		
12,800.0	9,787.4	11,774.3	8,992.1	27.7	28.4	-47.72	-2,771.7	647.6	1,188.9	1,131.0	57.83	20.558		
12,825.0	9,787.4	11,799.3	8,992.1	27.8	28.5	-47.72	-2,796.7	647.4	1,188.9	1,130.7	58.14	20.447		
12,900.0	9,787.4	11,874.3	8,992.2	28.3	29.0	-47.72	-2,871.7	646.8	1,188.9	1,129.8	59.08	20.121		
12,920.0	9,787.4	11,894.3	8,992.2	28.4	29.1	-47.72	-2,891.7	646.6	1,188.9	1,129.5	59.34	20.036		
13,000.0	9,787.5	11,974.3	8,992.2	28.9	29.5	-47.72	-2,971.7	645.9	1,188.9	1,128.5	60.35	19.699		
13,015.0	9,787.5	11,989.3	8,992.2	29.0	29.6	-47.72	-2,986.7	645.8	1,188.9	1,128.3	60.54	19.637		
13,100.0	9,787.5	12,074.3	8,992.3	29.5	30.1	-47.72	-3,071.7	645.1	1,188.9	1,127.2	61.63	19.290		
13,110.0	9,787.5	12,084.3	8,992.3	29.6	30.2	-47.72	-3,081.7	645.0	1,188.9	1,127.1	61.76	19.249		
13,200.0	9,787.6	12,174.3	8,992.3	30.2	30.7	-47.72	-3,171.7	644.3	1,188.9	1,125.9	62.92	18.894		
13,205.0	9,787.6	12,179.3	8,992.3	30.2	30.8	-47.72	-3,176.7	644.2	1,188.9	1,125.9	62.99	18.874		
13,300.0	9,787.6	12,274.3	8,992.3	30.8	31.3	-47.71	-3,271.7	643.5	1,188.9	1,124.7	64.23	18.510		
13,395.0	9,787.7	12,369.3	8,992.4	31.5	31.9	-47.71	-3,366.7	642.7	1,188.9	1,123.4	65.48	18.157		
13,400.0	9,787.7	12,374.3	8,992.4	31.5	31.9	-47.71	-3,371.7	642.6	1,188.9	1,123.3	65.54	18.139		
13,490.0	9,787.7	12,464.3	8,992.4	32.1	32.5	-47.71	-3,461.7	641.9	1,188.9	1,122.2	66.73	17.815		
13,500.0	9,787.8	12,474.3	8,992.4	32.2	32.6	-47.71	-3,471.7	641.8	1,188.9	1,122.0	66.87	17.780		
13,585.0	9,787.8	12,559.3	8,992.5	32.7	33.1	-47.71	-3,556.7	641.1	1,188.9	1,120.9	68.00	17.483		
13,600.0	9,787.8	12,574.3	8,992.5	32.8	33.2	-47.71	-3,571.7	641.0	1,188.9	1,120.7	68.20	17.432		
13,680.0	9,787.8	12,654.3	8,992.5	33.4	33.7	-47.71	-3,651.7	640.3	1,188.9	1,119.6	69.28	17.162		
13,700.0	9,787.9	12,674.3	8,992.5	33.5	33.8	-47.71	-3,671.7	640.2	1,188.9	1,119.4	69.54	17.096		
13,775.0	9,787.9	12,749.3	8,992.6	34.0	34.3	-47.71	-3,746.6	639.5	1,188.9	1,118.3	70.56	16.850		
13,800.0	9,787.9	12,774.3	8,992.6	34.2	34.5	-47.71	-3,771.6	639.3	1,188.9	1,118.0	70.90	16.770		
13,870.0	9,787.9	12,844.3	8,992.6	34.7	34.9	-47.71	-3,841.6	638.7	1,188.9	1,117.1	71.85	16.548		
13,900.0	9,788.0	12,874.3	8,992.6	34.9	35.1	-47.71	-3,871.6	638.5	1,188.9	1,116.7	72.25	16.455		
13,965.0	9,788.0	12,939.3	8,992.7	35.3	35.5	-47.71	-3,936.6	638.0	1,188.9	1,115.8	73.14	16.255		
14,000.0	9,788.0	12,974.3	8,992.7	35.6	35.7	-47.71	-3,971.6	637.7	1,188.9	1,115.3	73.62	16.149		
14,060.0	9,788.0	13,034.3	8,992.7	36.0	36.1	-47.71	-4,031.6	637.2	1,188.9	1,114.5	74.44	15.970		
14,100.0	9,788.1	13,074.3	8,992.7	36.3	36.4	-47.71	-4,071.6	636.9	1,188.9	1,113.9	74.99	15.853		
14,155.0	9,788.1	13,129.3	8,992.7	36.6	36.8	-47.71	-4,126.6	636.4	1,188.9	1,113.2	75.75	15.695		
14,200.0	9,788.1	13,174.3	8,992.8	37.0	37.1	-47.71	-4,171.6	636.0	1,188.9	1,112.6	76.38	15.567		
14,250.0	9,788.1	13,224.3	8,992.8	37.3	37.4	-47.71	-4,221.6	635.6	1,188.9	1,111.9	77.07	15.427		
14,300.0	9,788.2	13,274.3	8,992.8	37.7	37.7	-47.71	-4,271.6	635.2	1,188.9	1,111.2	77.76	15.289		
14,345.0	9,788.2	13,319.3	8,992.8	38.0	38.0	-47.71	-4,316.6	634.8	1,188.9	1,110.6	78.39	15.167		
14,400.0	9,788.2	13,374.3	8,992.9	38.4	38.4	-47.71	-4,371.6	634.4	1,188.9	1,109.8	79.15	15.020		

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Offset		Semi Major Axis		Offset Wellbore Centre		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,440.0	9,788.2	13,414.3	8,992.9	38.6	38.7	-47.71	-4,411.6	634.0	1,188.9	1,109.2	79.71	14.915		
14,500.0	9,788.3	13,474.3	8,992.9	39.1	39.1	-47.71	-4,471.6	633.5	1,188.9	1,108.4	80.55	14.760		
14,535.0	9,788.3	13,509.3	8,992.9	39.3	39.3	-47.71	-4,506.6	633.3	1,188.9	1,107.9	81.04	14.670		
14,600.0	9,788.3	13,574.3	8,993.0	39.8	39.7	-47.71	-4,571.6	632.7	1,189.0	1,107.0	81.96	14.507		
14,630.0	9,788.3	13,604.3	8,993.0	40.0	39.9	-47.71	-4,601.6	632.5	1,189.0	1,106.6	82.38	14.433		
14,700.0	9,788.4	13,674.3	8,993.0	40.5	40.4	-47.71	-4,671.6	631.9	1,189.0	1,105.6	83.37	14.262		
14,725.0	9,788.4	13,699.3	8,993.0	40.6	40.6	-47.71	-4,696.6	631.7	1,189.0	1,105.2	83.72	14.202		
14,800.0	9,788.4	13,774.3	8,993.0	41.2	41.1	-47.71	-4,771.6	631.1	1,189.0	1,104.2	84.78	14.024		
14,820.0	9,788.4	13,794.3	8,993.1	41.3	41.2	-47.71	-4,791.6	630.9	1,189.0	1,103.9	85.06	13.977		
14,900.0	9,788.5	13,874.3	8,993.1	41.9	41.8	-47.71	-4,871.6	630.2	1,189.0	1,102.8	86.20	13.793		
14,915.0	9,788.5	13,889.3	8,993.1	42.0	41.9	-47.71	-4,886.6	630.1	1,189.0	1,102.6	86.41	13.759		
15,000.0	9,788.5	13,974.3	8,993.1	42.6	42.5	-47.71	-4,971.6	629.4	1,189.0	1,101.4	87.62	13.570		
15,010.0	9,788.5	13,984.3	8,993.1	42.7	42.5	-47.71	-4,981.6	629.3	1,189.0	1,101.2	87.76	13.547		
15,100.0	9,788.6	14,074.3	8,993.2	43.3	43.2	-47.71	-5,071.6	628.6	1,189.0	1,099.9	89.05	13.352		
15,105.0	9,788.6	14,079.3	8,993.2	43.4	43.2	-47.71	-5,076.6	628.6	1,189.0	1,099.9	89.12	13.341		
15,200.0	9,788.6	14,174.3	8,993.2	44.0	43.9	-47.71	-5,171.6	627.8	1,189.0	1,098.5	90.48	13.141		
15,295.0	9,788.7	14,269.3	8,993.3	44.7	44.5	-47.71	-5,266.6	627.0	1,189.0	1,097.2	91.84	12.946		
15,300.0	9,788.7	14,274.3	8,993.3	44.8	44.5	-47.71	-5,271.6	626.9	1,189.0	1,097.1	91.91	12.936		
15,390.0	9,788.7	14,364.3	8,993.3	45.4	45.2	-47.71	-5,361.6	626.2	1,189.0	1,095.8	93.21	12.756		
15,400.0	9,788.7	14,374.3	8,993.3	45.5	45.2	-47.71	-5,371.6	626.1	1,189.0	1,095.6	93.35	12.737		
15,485.0	9,788.8	14,459.3	8,993.4	46.1	45.8	-47.71	-5,456.6	625.4	1,189.0	1,094.4	94.58	12.572		
15,500.0	9,788.8	14,474.3	8,993.4	46.2	45.9	-47.71	-5,471.6	625.3	1,189.0	1,094.2	94.79	12.543		
15,580.0	9,788.8	14,554.3	8,993.4	46.8	46.5	-47.71	-5,551.6	624.6	1,189.0	1,093.1	95.95	12.392		
15,600.0	9,788.9	14,574.3	8,993.4	46.9	46.6	-47.71	-5,571.6	624.5	1,189.0	1,092.8	96.24	12.355		
15,675.0	9,788.9	14,649.3	8,993.5	47.5	47.2	-47.71	-5,646.6	623.9	1,189.0	1,091.7	97.33	12.217		
15,700.0	9,788.9	14,674.3	8,993.5	47.6	47.4	-47.71	-5,671.6	623.6	1,189.0	1,091.3	97.69	12.171		
15,770.0	9,788.9	14,744.3	8,993.5	48.2	47.8	-47.71	-5,741.6	623.1	1,189.0	1,090.3	98.70	12.046		
15,800.0	9,789.0	14,774.3	8,993.5	48.4	48.1	-47.71	-5,771.6	622.8	1,189.0	1,089.9	99.14	11.993		
15,865.0	9,789.0	14,839.3	8,993.5	48.8	48.5	-47.71	-5,836.6	622.3	1,189.0	1,088.9	100.09	11.880		
15,900.0	9,789.0	14,874.3	8,993.6	49.1	48.8	-47.71	-5,871.6	622.0	1,189.0	1,088.4	100.59	11.820		
15,960.0	9,789.0	14,934.3	8,993.6	49.5	49.2	-47.71	-5,931.6	621.5	1,189.0	1,087.6	101.47	11.718		
16,000.0	9,789.1	14,974.3	8,993.6	49.8	49.5	-47.71	-5,971.6	621.2	1,189.0	1,087.0	102.05	11.651		
16,055.0	9,789.1	15,029.3	8,993.6	50.2	49.9	-47.71	-6,026.6	620.7	1,189.0	1,086.2	102.85	11.560		
16,100.0	9,789.1	15,074.3	8,993.7	50.6	50.2	-47.71	-6,071.6	620.3	1,189.0	1,085.5	103.51	11.487		
16,150.0	9,789.1	15,124.3	8,993.7	50.9	50.5	-47.71	-6,121.6	619.9	1,189.0	1,084.8	104.24	11.406		
16,200.0	9,789.2	15,174.3	8,993.7	51.3	50.9	-47.71	-6,171.6	619.5	1,189.0	1,084.1	104.97	11.327		
16,245.0	9,789.2	15,219.3	8,993.7	51.6	51.2	-47.71	-6,216.6	619.1	1,189.0	1,083.4	105.63	11.256		
16,300.0	9,789.2	15,274.3	8,993.7	52.0	51.6	-47.71	-6,271.6	618.7	1,189.1	1,082.6	106.44	11.171		
16,340.0	9,789.2	15,314.3	8,993.8	52.3	51.9	-47.71	-6,311.6	618.4	1,189.1	1,082.0	107.03	11.110		
16,400.0	9,789.3	15,374.3	8,993.8	52.8	52.3	-47.71	-6,371.6	617.9	1,189.1	1,081.1	107.91	11.019		
16,435.0	9,789.3	15,409.3	8,993.8	53.0	52.6	-47.71	-6,406.6	617.6	1,189.1	1,080.6	108.42	10.967		
16,500.0	9,789.3	15,474.3	8,993.8	53.5	53.0	-47.71	-6,471.6	617.0	1,189.1	1,079.7	109.38	10.871		
16,530.0	9,789.3	15,504.3	8,993.9	53.7	53.3	-47.71	-6,501.6	616.8	1,189.1	1,079.2	109.82	10.828		
16,600.0	9,789.4	15,574.3	8,993.9	54.2	53.8	-47.71	-6,571.6	616.2	1,189.1	1,078.2	110.85	10.727		
16,625.0	9,789.4	15,599.3	8,993.9	54.4	53.9	-47.71	-6,596.6	616.0	1,189.1	1,077.9	111.22	10.692		
16,700.0	9,789.4	15,674.3	8,993.9	55.0	54.5	-47.71	-6,671.5	615.4	1,189.1	1,076.8	112.32	10.586		
16,720.0	9,789.4	15,694.3	8,993.9	55.1	54.6	-47.71	-6,691.5	615.2	1,189.1	1,076.5	112.62	10.559		
16,800.0	9,789.5	15,774.3	8,994.0	55.7	55.2	-47.71	-6,771.5	614.6	1,189.1	1,075.3	113.80	10.449		
16,815.0	9,789.5	15,789.3	8,994.0	55.8	55.3	-47.71	-6,786.5	614.4	1,189.1	1,075.1	114.02	10.429		
16,900.0	9,789.5	15,874.3	8,994.0	56.4	55.9	-47.71	-6,871.5	613.7	1,189.1	1,073.8	115.27	10.315		
16,910.0	9,789.5	15,884.3	8,994.0	56.5	56.0	-47.71	-6,881.5	613.7	1,189.1	1,073.7	115.42	10.302		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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	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)		
17,000.0	9,789.6	15,974.3	8,994.1	57.2	56.7	-47.71	-6,971.5	612.9	1,189.1	1,072.3	116.75	10.185
17,005.0	9,789.6	15,979.3	8,994.1	57.2	56.7	-47.71	-6,976.5	612.9	1,189.1	1,072.3	116.83	10.178
17,100.0	9,789.6	16,074.3	8,994.1	57.9	57.4	-47.71	-7,071.5	612.1	1,189.1	1,070.9	118.23	10.057
17,195.0	9,789.7	16,169.3	8,994.2	58.6	58.1	-47.71	-7,166.5	611.3	1,189.1	1,069.5	119.64	9.939
17,200.0	9,789.7	16,174.3	8,994.2	58.6	58.1	-47.71	-7,171.5	611.3	1,189.1	1,069.4	119.72	9.933
17,290.0	9,789.7	16,264.3	8,994.2	59.3	58.8	-47.71	-7,261.5	610.5	1,189.1	1,068.1	121.05	9.823
17,300.0	9,789.7	16,274.3	8,994.2	59.4	58.8	-47.71	-7,271.5	610.4	1,189.1	1,067.9	121.20	9.811
17,385.0	9,789.8	16,359.3	8,994.3	60.0	59.5	-47.71	-7,356.5	609.7	1,189.1	1,066.6	122.47	9.710
17,400.0	9,789.8	16,374.3	8,994.3	60.1	59.6	-47.71	-7,371.5	609.6	1,189.1	1,066.4	122.69	9.692
17,480.0	9,789.8	16,454.3	8,994.3	60.7	60.1	-47.71	-7,451.5	609.0	1,189.1	1,065.2	123.88	9.599
17,500.0	9,789.9	16,474.3	8,994.3	60.9	60.3	-47.71	-7,471.5	608.8	1,189.1	1,064.9	124.18	9.576
17,575.0	9,789.9	16,549.3	8,994.3	61.4	60.8	-47.71	-7,546.5	608.2	1,189.1	1,063.8	125.29	9.491
17,600.0	9,789.9	16,574.3	8,994.4	61.6	61.0	-47.71	-7,571.5	608.0	1,189.1	1,063.5	125.67	9.463
17,670.0	9,789.9	16,644.3	8,994.4	62.1	61.5	-47.71	-7,641.5	607.4	1,189.1	1,062.4	126.71	9.385
17,700.0	9,790.0	16,674.3	8,994.4	62.4	61.7	-47.71	-7,671.5	607.1	1,189.1	1,062.0	127.16	9.352
17,765.0	9,790.0	16,739.3	8,994.4	62.8	62.2	-47.71	-7,736.5	606.6	1,189.1	1,061.0	128.13	9.281
17,800.0	9,790.0	16,774.3	8,994.4	63.1	62.5	-47.71	-7,771.5	606.3	1,189.1	1,060.5	128.65	9.243
17,860.0	9,790.0	16,834.3	8,994.5	63.5	62.9	-47.71	-7,831.5	605.8	1,189.1	1,059.6	129.54	9.179
17,900.0	9,790.1	16,874.3	8,994.5	63.8	63.2	-47.71	-7,871.5	605.5	1,189.1	1,059.0	130.14	9.137
17,955.0	9,790.1	16,929.3	8,994.5	64.3	63.6	-47.71	-7,926.5	605.0	1,189.1	1,058.2	130.96	9.080
18,000.0	9,790.1	16,974.3	8,994.5	64.6	63.9	-47.71	-7,971.5	604.7	1,189.1	1,057.5	131.64	9.034
18,050.0	9,790.1	17,024.3	8,994.6	65.0	64.3	-47.71	-8,021.5	604.2	1,189.1	1,056.8	132.38	8.983
18,100.0	9,790.2	17,074.3	8,994.6	65.3	64.7	-47.71	-8,071.5	603.8	1,189.2	1,056.0	133.13	8.932
18,145.0	9,790.2	17,119.3	8,994.6	65.7	65.0	-47.71	-8,116.5	603.5	1,189.2	1,055.4	133.80	8.887
18,200.0	9,790.2	17,174.3	8,994.6	66.1	65.4	-47.71	-8,171.5	603.0	1,189.2	1,054.5	134.63	8.833
18,240.0	9,790.2	17,214.3	8,994.6	66.4	65.7	-47.71	-8,211.5	602.7	1,189.2	1,053.9	135.23	8.794
18,300.0	9,790.3	17,274.3	8,994.7	66.8	66.1	-47.71	-8,271.5	602.2	1,189.2	1,053.0	136.13	8.736
18,335.0	9,790.3	17,309.3	8,994.7	67.1	66.4	-47.71	-8,306.5	601.9	1,189.2	1,052.5	136.65	8.702
18,400.0	9,790.3	17,374.3	8,994.7	67.6	66.9	-47.71	-8,371.5	601.4	1,189.2	1,051.5	137.63	8.641
18,430.0	9,790.3	17,404.3	8,994.7	67.8	67.1	-47.71	-8,401.5	601.1	1,189.2	1,051.1	138.08	8.612
18,500.0	9,790.4	17,474.3	8,994.8	68.3	67.6	-47.71	-8,471.5	600.5	1,189.2	1,050.0	139.13	8.547
18,525.0	9,790.4	17,499.3	8,994.8	68.5	67.8	-47.71	-8,496.5	600.3	1,189.2	1,049.7	139.50	8.524
18,600.0	9,790.4	17,574.3	8,994.8	69.1	68.4	-47.71	-8,571.5	599.7	1,189.2	1,048.6	140.63	8.456
18,620.0	9,790.4	17,594.3	8,994.8	69.2	68.5	-47.71	-8,591.5	599.5	1,189.2	1,048.3	140.93	8.438
18,700.0	9,790.5	17,674.3	8,994.9	69.8	69.1	-47.71	-8,671.5	598.9	1,189.2	1,047.1	142.13	8.367
18,715.0	9,790.5	17,689.3	8,994.9	69.9	69.2	-47.71	-8,686.5	598.8	1,189.2	1,046.8	142.36	8.354
18,800.0	9,790.5	17,774.3	8,994.9	70.6	69.8	-47.71	-8,771.5	598.1	1,189.2	1,045.6	143.63	8.279
18,810.0	9,790.5	17,784.3	8,994.9	70.6	69.9	-47.71	-8,781.5	598.0	1,189.2	1,045.4	143.78	8.271
18,900.0	9,790.6	17,874.3	8,995.0	71.3	70.6	-47.71	-8,871.5	597.2	1,189.2	1,044.1	145.14	8.194
18,905.0	9,790.6	17,879.3	8,995.0	71.3	70.6	-47.71	-8,876.5	597.2	1,189.2	1,044.0	145.21	8.189
19,000.0	9,790.6	17,974.3	8,995.0	72.0	71.3	-47.71	-8,971.5	596.4	1,189.2	1,042.6	146.64	8.110
19,095.0	9,790.7	18,069.3	8,995.0	72.8	72.0	-47.71	-9,066.5	595.6	1,189.2	1,041.1	148.07	8.031
19,100.0	9,790.7	18,074.3	8,995.0	72.8	72.1	-47.71	-9,071.5	595.6	1,189.2	1,041.1	148.15	8.027
19,190.0	9,790.7	18,164.3	8,995.1	73.5	72.7	-47.71	-9,161.5	594.8	1,189.2	1,039.7	149.51	7.954
19,200.0	9,790.7	18,174.3	8,995.1	73.5	72.8	-47.71	-9,171.5	594.8	1,189.2	1,039.6	149.66	7.946
19,285.0	9,790.8	18,259.3	8,995.1	74.2	73.4	-47.71	-9,256.5	594.1	1,189.2	1,038.3	150.94	7.879
19,300.0	9,790.8	18,274.3	8,995.1	74.3	73.5	-47.71	-9,271.5	593.9	1,189.2	1,038.1	151.16	7.867
19,380.0	9,790.8	18,354.3	8,995.2	74.9	74.1	-47.71	-9,351.5	593.3	1,189.2	1,036.9	152.37	7.805
19,400.0	9,790.8	18,374.3	8,995.2	75.0	74.3	-47.71	-9,371.5	593.1	1,189.2	1,036.6	152.67	7.789
19,475.0	9,790.9	18,449.3	8,995.2	75.6	74.8	-47.71	-9,446.5	592.5	1,189.2	1,035.4	153.81	7.732
19,500.0	9,790.9	18,474.3	8,995.2	75.8	75.0	-47.71	-9,471.5	592.3	1,189.2	1,035.1	154.18	7.713

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
19,570.0	9,790.9	18,544.3	8,995.3	76.3	75.5	-47.71	-9,541.5	591.7	1,189.2	1,034.0	155.24	7.661
19,600.0	9,791.0	18,574.3	8,995.3	76.5	75.8	-47.71	-9,571.4	591.5	1,189.2	1,033.5	155.69	7.638
19,665.0	9,791.0	18,639.3	8,995.3	77.0	76.2	-47.71	-9,636.4	590.9	1,189.2	1,032.6	156.67	7.591
19,700.0	9,791.0	18,674.3	8,995.3	77.3	76.5	-47.71	-9,671.4	590.6	1,189.2	1,032.0	157.20	7.565
19,760.0	9,791.0	18,734.3	8,995.4	77.7	76.9	-47.71	-9,731.4	590.1	1,189.2	1,031.1	158.11	7.522
19,800.0	9,791.1	18,774.3	8,995.4	78.0	77.2	-47.71	-9,771.4	589.8	1,189.2	1,030.5	158.72	7.493
19,855.0	9,791.1	18,829.3	8,995.4	78.5	77.7	-47.71	-9,826.4	589.4	1,189.3	1,029.7	159.55	7.454
19,900.0	9,791.1	18,874.3	8,995.4	78.8	78.0	-47.71	-9,871.4	589.0	1,189.3	1,029.0	160.23	7.422
19,950.0	9,791.1	18,924.3	8,995.4	79.2	78.4	-47.71	-9,921.4	588.6	1,189.3	1,028.3	160.98	7.387
20,000.0	9,791.2	18,974.3	8,995.5	79.5	78.7	-47.71	-9,971.4	588.2	1,189.3	1,027.5	161.74	7.353
20,045.0	9,791.2	19,019.3	8,995.5	79.9	79.1	-47.71	-10,016.4	587.8	1,189.3	1,026.8	162.42	7.322
20,100.0	9,791.2	19,074.3	8,995.5	80.3	79.5	-47.71	-10,071.4	587.3	1,189.3	1,026.0	163.25	7.285
20,140.0	9,791.2	19,114.3	8,995.5	80.6	79.8	-47.71	-10,111.4	587.0	1,189.3	1,025.4	163.86	7.258
20,200.0	9,791.3	19,174.3	8,995.6	81.0	80.2	-47.71	-10,171.4	586.5	1,189.3	1,024.5	164.77	7.218
20,235.0	9,791.3	19,209.3	8,995.6	81.3	80.5	-47.71	-10,206.4	586.2	1,189.3	1,024.0	165.30	7.195
20,300.0	9,791.3	19,274.3	8,995.6	81.8	81.0	-47.71	-10,271.4	585.7	1,189.3	1,023.0	166.28	7.152
20,330.0	9,791.3	19,304.3	8,995.6	82.0	81.2	-47.71	-10,301.4	585.4	1,189.3	1,022.5	166.74	7.133
20,400.0	9,791.4	19,374.3	8,995.7	82.6	81.7	-47.71	-10,371.4	584.9	1,189.3	1,021.5	167.80	7.088
20,425.0	9,791.4	19,399.3	8,995.7	82.7	81.9	-47.71	-10,396.4	584.6	1,189.3	1,021.1	168.18	7.072
20,500.0	9,791.4	19,474.3	8,995.7	83.3	82.5	-47.71	-10,471.4	584.0	1,189.3	1,020.0	169.32	7.024
20,520.0	9,791.4	19,494.3	8,995.7	83.5	82.6	-47.71	-10,491.4	583.9	1,189.3	1,019.7	169.62	7.012
20,600.0	9,791.5	19,574.3	8,995.7	84.1	83.2	-47.71	-10,571.4	583.2	1,189.3	1,018.5	170.83	6.962
20,615.0	9,791.5	19,589.3	8,995.8	84.2	83.3	-47.71	-10,586.4	583.1	1,189.3	1,018.2	171.06	6.952
20,700.0	9,791.5	19,674.3	8,995.8	84.8	84.0	-47.71	-10,671.4	582.4	1,189.3	1,017.0	172.35	6.900
20,710.0	9,791.5	19,684.3	8,995.8	84.9	84.0	-47.71	-10,681.4	582.3	1,189.3	1,016.8	172.50	6.894
20,800.0	9,791.6	19,774.3	8,995.8	85.6	84.7	-47.71	-10,771.4	581.6	1,189.3	1,015.4	173.87	6.840
20,805.0	9,791.6	19,779.3	8,995.8	85.6	84.7	-47.71	-10,776.4	581.5	1,189.3	1,015.4	173.94	6.837
20,900.0	9,791.6	19,874.3	8,995.9	86.3	85.4	-47.70	-10,871.4	580.7	1,189.3	1,013.9	175.39	6.781
20,995.0	9,791.7	19,969.3	8,995.9	87.0	86.2	-47.70	-10,966.4	579.9	1,189.3	1,012.5	176.83	6.726
21,000.0	9,791.7	19,974.3	8,995.9	87.1	86.2	-47.70	-10,971.4	579.9	1,189.3	1,012.4	176.91	6.723
21,090.0	9,791.7	20,064.3	8,996.0	87.7	86.9	-47.70	-11,061.4	579.2	1,189.3	1,011.0	178.27	6.671
21,100.0	9,791.7	20,074.3	8,996.0	87.8	86.9	-47.70	-11,071.4	579.1	1,189.3	1,010.9	178.43	6.666
21,185.0	9,791.8	20,159.3	8,996.0	88.5	87.6	-47.70	-11,156.4	578.4	1,189.3	1,009.6	179.72	6.618
21,200.0	9,791.8	20,174.3	8,996.0	88.6	87.7	-47.70	-11,171.4	578.3	1,189.3	1,009.4	179.95	6.609
21,280.0	9,791.8	20,254.3	8,996.1	89.2	88.3	-47.70	-11,251.4	577.6	1,189.3	1,008.2	181.16	6.565
21,300.0	9,791.8	20,274.3	8,996.1	89.3	88.4	-47.70	-11,271.4	577.4	1,189.3	1,007.9	181.47	6.554
21,375.0	9,791.9	20,349.3	8,996.1	89.9	89.0	-47.70	-11,346.4	576.8	1,189.3	1,006.7	182.61	6.513
21,400.0	9,791.9	20,374.3	8,996.1	90.1	89.2	-47.70	-11,371.4	576.6	1,189.3	1,006.4	182.99	6.500
21,470.0	9,791.9	20,444.3	8,996.2	90.6	89.7	-47.70	-11,441.4	576.0	1,189.3	1,005.3	184.05	6.462
21,500.0	9,791.9	20,474.3	8,996.2	90.8	89.9	-47.70	-11,471.4	575.8	1,189.3	1,004.8	184.51	6.446
21,565.0	9,792.0	20,539.3	8,996.2	91.3	90.4	-47.70	-11,536.4	575.2	1,189.4	1,003.9	185.50	6.412
21,600.0	9,792.0	20,574.3	8,996.2	91.6	90.7	-47.70	-11,571.4	575.0	1,189.4	1,003.3	186.03	6.393
21,660.0	9,792.0	20,634.3	8,996.2	92.0	91.1	-47.70	-11,631.4	574.5	1,189.4	1,002.4	186.94	6.362
21,700.0	9,792.1	20,674.3	8,996.3	92.3	91.4	-47.70	-11,671.4	574.1	1,189.4	1,001.8	187.55	6.341
21,755.0	9,792.1	20,729.3	8,996.3	92.8	91.8	-47.70	-11,726.4	573.7	1,189.4	1,001.0	188.39	6.313
21,800.0	9,792.1	20,774.3	8,996.3	93.1	92.2	-47.70	-11,771.4	573.3	1,189.4	1,000.3	189.08	6.290
21,850.0	9,792.1	20,824.3	8,996.3	93.5	92.6	-47.70	-11,821.4	572.9	1,189.4	999.5	189.84	6.265
21,900.0	9,792.2	20,874.3	8,996.4	93.9	92.9	-47.70	-11,871.4	572.5	1,189.4	998.8	190.60	6.240
21,945.0	9,792.2	20,919.3	8,996.4	94.2	93.3	-47.70	-11,916.4	572.1	1,189.4	998.1	191.28	6.218
22,000.0	9,792.2	20,974.3	8,996.4	94.6	93.7	-47.70	-11,971.4	571.6	1,189.4	997.3	192.12	6.191
22,040.0	9,792.2	21,014.3	8,996.4	94.9	94.0	-47.70	-12,011.4	571.3	1,189.4	996.6	192.73	6.171

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,100.0	9,792.3	21,074.3	8,996.4	95.4	94.4	-47.70	-12,071.4	570.8	1,189.4	995.7	193.65	6.142	
22,135.0	9,792.3	21,109.3	8,996.5	95.6	94.7	-47.70	-12,106.4	570.5	1,189.4	995.2	194.18	6.125	
22,200.0	9,792.3	21,174.3	8,996.5	96.1	95.2	-47.70	-12,171.4	570.0	1,189.4	994.2	195.17	6.094	
22,230.0	9,792.3	21,204.3	8,996.5	96.3	95.4	-47.70	-12,201.4	569.8	1,189.4	993.8	195.63	6.080	
22,300.0	9,792.4	21,274.3	8,996.5	96.9	95.9	-47.70	-12,271.4	569.2	1,189.4	992.7	196.70	6.047	
22,325.0	9,792.4	21,299.3	8,996.6	97.1	96.1	-47.70	-12,296.4	569.0	1,189.4	992.3	197.08	6.035	
22,400.0	9,792.4	21,374.3	8,996.6	97.6	96.7	-47.70	-12,371.4	568.3	1,189.4	991.2	198.22	6.000	
22,420.0	9,792.4	21,394.3	8,996.6	97.8	96.8	-47.70	-12,391.4	568.2	1,189.4	990.9	198.53	5.991	
22,500.0	9,792.5	21,474.3	8,996.6	98.4	97.4	-47.70	-12,471.4	567.5	1,189.4	989.7	199.75	5.955	
22,515.0	9,792.5	21,489.3	8,996.6	98.5	97.6	-47.70	-12,486.3	567.4	1,189.4	989.4	199.98	5.948	
22,600.0	9,792.5	21,574.3	8,996.7	99.1	98.2	-47.70	-12,571.3	566.7	1,189.4	988.1	201.27	5.909	
22,610.0	9,792.5	21,584.3	8,996.7	99.2	98.3	-47.70	-12,581.3	566.6	1,189.4	988.0	201.43	5.905	
22,700.0	9,792.6	21,674.3	8,996.7	99.9	98.9	-47.70	-12,671.3	565.9	1,189.4	986.6	202.80	5.865	
22,705.0	9,792.6	21,679.3	8,996.7	99.9	99.0	-47.70	-12,676.3	565.8	1,189.4	986.5	202.88	5.863	
22,800.0	9,792.6	21,774.3	8,996.8	100.7	99.7	-47.70	-12,771.3	565.0	1,189.4	985.1	204.33	5.821	
22,895.0	9,792.7	21,869.3	8,996.8	101.4	100.4	-47.70	-12,866.3	564.3	1,189.4	983.6	205.78	5.780	
22,900.0	9,792.7	21,874.3	8,996.8	101.4	100.4	-47.70	-12,871.3	564.2	1,189.4	983.6	205.85	5.778	
22,990.0	9,792.7	21,964.3	8,996.9	102.1	101.1	-47.70	-12,961.3	563.5	1,189.4	982.2	207.23	5.740	
23,000.0	9,792.7	21,974.3	8,996.9	102.2	101.2	-47.70	-12,971.3	563.4	1,189.4	982.1	207.38	5.736	
23,085.0	9,792.8	22,059.3	8,996.9	102.8	101.8	-47.70	-13,056.3	562.7	1,189.4	980.8	208.68	5.700	
23,100.0	9,792.8	22,074.3	8,996.9	102.9	102.0	-47.70	-13,071.3	562.6	1,189.4	980.5	208.91	5.694	
23,180.0	9,792.8	22,154.3	8,997.0	103.5	102.6	-47.70	-13,151.3	561.9	1,189.4	979.3	210.13	5.661	
23,200.0	9,792.8	22,174.3	8,997.0	103.7	102.7	-47.70	-13,171.3	561.7	1,189.4	979.0	210.44	5.652	
23,275.0	9,792.9	22,249.3	8,997.0	104.2	103.3	-47.70	-13,246.3	561.1	1,189.4	977.9	211.58	5.622	
23,300.0	9,792.9	22,274.3	8,997.0	104.4	103.5	-47.70	-13,271.3	560.9	1,189.4	977.5	211.96	5.612	
23,370.0	9,792.9	22,344.3	8,997.0	105.0	104.0	-47.70	-13,341.3	560.3	1,189.5	976.4	213.03	5.583	
23,400.0	9,792.9	22,374.3	8,997.1	105.2	104.2	-47.70	-13,371.3	560.1	1,189.5	976.0	213.49	5.571	
23,465.0	9,793.0	22,439.3	8,997.1	105.7	104.7	-47.70	-13,436.3	559.6	1,189.5	975.0	214.49	5.546	
23,500.0	9,793.0	22,474.3	8,997.1	105.9	105.0	-47.70	-13,471.3	559.3	1,189.5	974.4	215.02	5.532	
23,560.0	9,793.0	22,534.3	8,997.1	106.4	105.4	-47.70	-13,531.3	558.8	1,189.5	973.5	215.94	5.508	
23,600.0	9,793.0	22,574.3	8,997.1	106.7	105.7	-47.70	-13,571.3	558.4	1,189.5	972.9	216.55	5.493	
23,655.0	9,793.1	22,629.3	8,997.2	107.1	106.1	-47.70	-13,626.3	558.0	1,189.5	972.1	217.39	5.472	
23,700.0	9,793.1	22,674.3	8,997.2	107.5	106.5	-47.70	-13,671.3	557.6	1,189.5	971.4	218.08	5.454	
23,750.0	9,793.1	22,724.3	8,997.2	107.8	106.8	-47.70	-13,721.3	557.2	1,189.5	970.6	218.84	5.435	
23,800.0	9,793.2	22,774.3	8,997.2	108.2	107.2	-47.70	-13,771.3	556.8	1,189.5	969.9	219.61	5.416	
23,845.0	9,793.2	22,819.3	8,997.3	108.6	107.6	-47.70	-13,816.3	556.4	1,189.5	969.2	220.30	5.399	
23,900.0	9,793.2	22,874.3	8,997.3	109.0	108.0	-47.70	-13,871.3	556.0	1,189.5	968.3	221.14	5.379	
23,940.0	9,793.2	22,914.3	8,997.3	109.3	108.3	-47.70	-13,911.3	555.6	1,189.5	967.7	221.75	5.364	
24,000.0	9,793.3	22,974.3	8,997.3	109.7	108.7	-47.70	-13,971.3	555.1	1,189.5	966.8	222.67	5.342	
24,035.0	9,793.3	23,009.3	8,997.3	110.0	109.0	-47.70	-14,006.3	554.9	1,189.5	966.3	223.20	5.329	
24,100.0	9,793.3	23,074.3	8,997.4	110.5	109.5	-47.70	-14,071.3	554.3	1,189.5	965.3	224.20	5.306	
24,130.0	9,793.3	23,104.3	8,997.4	110.7	109.7	-47.70	-14,101.3	554.1	1,189.5	964.8	224.66	5.295	
24,200.0	9,793.4	23,174.3	8,997.4	111.2	110.2	-47.70	-14,171.3	553.5	1,189.5	963.8	225.73	5.270	
24,225.0	9,793.4	23,199.3	8,997.4	111.4	110.4	-47.70	-14,196.3	553.3	1,189.5	963.4	226.11	5.261	
24,300.0	9,793.4	23,274.3	8,997.5	112.0	111.0	-47.70	-14,271.3	552.7	1,189.5	962.2	227.26	5.234	
24,320.0	9,793.4	23,294.3	8,997.5	112.2	111.1	-47.70	-14,291.3	552.5	1,189.5	961.9	227.57	5.227	
24,400.0	9,793.5	23,374.3	8,997.5	112.8	111.7	-47.70	-14,371.3	551.8	1,189.5	960.7	228.79	5.199	
24,415.0	9,793.5	23,389.3	8,997.5	112.9	111.9	-47.70	-14,386.3	551.7	1,189.5	960.5	229.02	5.194	
24,500.0	9,793.5	23,474.3	8,997.6	113.5	112.5	-47.70	-14,471.3	551.0	1,189.5	959.2	230.32	5.165	
24,510.0	9,793.5	23,484.3	8,997.6	113.6	112.6	-47.70	-14,481.3	550.9	1,189.5	959.0	230.48	5.161	
24,600.0	9,793.6	23,574.3	8,997.6	114.3	113.3	-47.70	-14,571.3	550.2	1,189.5	957.7	231.85	5.130	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
24,605.0	9,793.6	23,579.3	8,997.6	114.3	113.3	-47.70	-14,576.3	550.1	1,189.5	957.6	231.93	5.129	
24,700.0	9,793.6	23,674.3	8,997.7	115.0	114.0	-47.70	-14,671.3	549.4	1,189.5	956.1	233.39	5.097	
24,795.0	9,793.7	23,769.3	8,997.7	115.8	114.7	-47.70	-14,766.3	548.6	1,189.5	954.7	234.84	5.065	
24,800.0	9,793.7	23,774.3	8,997.7	115.8	114.8	-47.70	-14,771.3	548.5	1,189.5	954.6	234.92	5.064	
24,890.0	9,793.7	23,864.3	8,997.7	116.5	115.4	-47.70	-14,861.3	547.8	1,189.5	953.2	236.30	5.034	
24,900.0	9,793.7	23,874.3	8,997.8	116.6	115.5	-47.70	-14,871.3	547.7	1,189.5	953.1	236.45	5.031	
24,985.0	9,793.8	23,959.3	8,997.8	117.2	116.2	-47.70	-14,956.3	547.0	1,189.5	951.8	237.75	5.003	
25,000.0	9,793.8	23,974.3	8,997.8	117.3	116.3	-47.70	-14,971.3	546.9	1,189.5	951.6	237.98	4.998	
25,080.0	9,793.8	24,054.3	8,997.8	117.9	116.9	-47.70	-15,051.3	546.2	1,189.6	950.3	239.21	4.973	
25,100.0	9,793.8	24,074.3	8,997.8	118.1	117.0	-47.70	-15,071.3	546.1	1,189.6	950.0	239.52	4.966	
25,175.0	9,793.9	24,149.3	8,997.9	118.6	117.6	-47.70	-15,146.3	545.4	1,189.6	948.9	240.66	4.943	
25,200.0	9,793.9	24,174.3	8,997.9	118.8	117.8	-47.70	-15,171.3	545.2	1,189.6	948.5	241.05	4.935	
25,270.0	9,793.9	24,244.3	8,997.9	119.4	118.3	-47.70	-15,241.3	544.7	1,189.6	947.4	242.12	4.913	
25,278.2	9,793.9	24,252.5	8,997.9	119.4	118.4	-47.70	-15,249.4	544.6	1,189.6	947.3	242.25	4.911	
25,300.0	9,793.9	24,274.3	8,997.9	119.6	118.5	-47.70	-15,271.3	544.4	1,189.6	947.0	242.58	4.904	
25,365.0	9,794.0	24,339.3	8,998.0	120.1	119.0	-47.70	-15,336.3	543.9	1,189.6	946.0	243.58	4.884	
25,408.3	9,794.0	24,382.6	8,998.0	120.4	119.4	-47.70	-15,379.5	543.5	1,189.6	945.3	244.24	4.871 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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-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		
0.0	0.0	4.5	4.5	3.0	3.0	157.26	-148.9	62.4	161.4				
95.0	95.0	99.5	99.5	3.0	3.0	157.26	-148.9	62.4	161.4	155.4	6.04	26.738	
100.0	100.0	104.5	104.5	3.0	3.0	157.26	-148.9	62.4	161.4	155.4	6.04	26.710	
190.0	190.0	194.5	194.5	3.1	3.1	157.26	-148.9	62.4	161.4	155.2	6.27	25.769	
200.0	200.0	204.5	204.5	3.1	3.2	157.26	-148.9	62.4	161.4	155.1	6.30	25.638	
285.0	285.0	289.5	289.5	3.3	3.3	157.26	-148.9	62.4	161.4	154.9	6.50	24.819	
300.0	300.0	304.5	304.5	3.3	3.3	157.26	-148.9	62.4	161.4	154.9	6.55	24.666	
380.0	380.0	384.5	384.5	3.4	3.4	157.26	-148.9	62.4	161.4	154.7	6.74	23.957	
400.0	400.0	404.5	404.5	3.4	3.4	157.26	-148.9	62.4	161.4	154.7	6.79	23.775	
475.0	475.0	479.5	479.5	3.5	3.5	157.26	-148.9	62.4	161.4	154.5	6.97	23.161	
500.0	500.0	504.5	504.5	3.5	3.5	157.26	-148.9	62.4	161.4	154.4	7.03	22.955	
570.0	570.0	574.5	574.5	3.6	3.6	157.26	-148.9	62.4	161.4	154.2	7.20	22.424	
600.0	600.0	604.5	604.5	3.6	3.6	157.26	-148.9	62.4	161.4	154.2	7.27	22.196	
665.0	665.0	669.5	669.5	3.7	3.7	157.26	-148.9	62.4	161.4	154.0	7.43	21.738	
700.0	700.0	704.5	704.5	3.8	3.8	157.26	-148.9	62.4	161.4	153.9	7.51	21.492	
760.0	760.0	764.5	764.5	3.8	3.8	157.26	-148.9	62.4	161.4	153.8	7.65	21.097	
800.0	800.0	804.5	804.5	3.9	3.9	157.26	-148.9	62.4	161.4	153.7	7.75	20.836	
855.0	855.0	859.5	859.5	4.0	4.0	157.26	-148.9	62.4	161.4	153.6	7.88	20.497	
900.0	900.0	904.5	904.5	4.0	4.0	157.26	-148.9	62.4	161.4	153.5	7.98	20.223	
950.0	950.0	954.5	954.5	4.1	4.1	157.26	-148.9	62.4	161.4	153.3	8.10	19.934	
1,000.0	1,000.0	1,004.5	1,004.5	4.1	4.1	157.26	-148.9	62.4	161.4	153.2	8.22	19.649	
1,045.0	1,045.0	1,049.5	1,049.5	4.2	4.2	157.26	-148.9	62.4	161.4	153.1	8.32	19.404	
1,100.0	1,100.0	1,104.5	1,104.5	4.2	4.3	157.26	-148.9	62.4	161.4	153.0	8.45	19.109	
1,140.0	1,140.0	1,144.5	1,144.5	4.3	4.3	157.26	-148.9	62.4	161.4	152.9	8.54	18.905	
1,200.0	1,200.0	1,204.5	1,204.5	4.4	4.4	157.26	-148.9	62.4	161.4	152.8	8.68	18.602	
1,235.0	1,235.0	1,239.5	1,239.5	4.4	4.4	157.26	-148.9	62.4	161.4	152.7	8.76	18.432	
1,300.0	1,300.0	1,304.5	1,304.5	4.5	4.5	157.26	-148.9	62.4	161.4	152.5	8.91	18.123	
1,330.0	1,330.0	1,334.5	1,334.5	4.5	4.5	157.26	-148.9	62.4	161.4	152.5	8.98	17.985	
1,400.0	1,400.0	1,404.5	1,404.5	4.6	4.6	157.26	-148.9	62.4	161.4	152.3	9.14	17.670	
1,425.0	1,425.0	1,429.5	1,429.5	4.6	4.6	157.26	-148.9	62.4	161.4	152.3	9.19	17.561	
1,500.0	1,500.0	1,504.7	1,504.7	4.7	4.7	157.26	-148.9	62.4	161.4	152.1	9.37	17.235	
1,513.9	1,513.9	1,519.1	1,519.1	4.7	4.8	-178.30	-148.8	62.4	161.4	152.0	9.42	17.146 CC	
1,520.0	1,520.0	1,525.5	1,525.5	4.8	4.8	-178.31	-148.8	62.4	161.4	152.0	9.44	17.108 ES	
1,600.0	1,600.0	1,608.9	1,608.9	4.9	4.9	-178.81	-147.0	63.1	161.8	152.0	9.72	16.641	
1,615.0	1,615.0	1,624.5	1,624.5	4.9	5.0	-178.97	-146.4	63.4	161.9	152.1	9.79	16.535	
1,700.0	1,699.8	1,713.0	1,712.8	5.2	5.2	179.72	-141.5	65.2	163.0	152.8	10.19	16.003	
1,710.0	1,709.8	1,723.4	1,723.2	5.2	5.2	179.53	-140.8	65.5	163.2	153.0	10.23	15.948	
1,800.0	1,799.5	1,816.9	1,816.2	5.4	5.5	177.36	-132.5	68.6	165.4	154.8	10.63	15.556	
1,805.0	1,804.4	1,822.0	1,821.4	5.5	5.5	177.22	-132.0	68.8	165.5	154.9	10.65	15.545	
1,900.0	1,898.7	1,917.7	1,916.3	5.7	5.6	174.51	-121.2	72.9	169.7	158.7	11.01	15.422	
1,995.0	1,992.5	2,012.1	2,010.0	6.0	5.9	172.05	-110.5	77.0	177.3	165.9	11.45	15.490	
2,000.0	1,997.5	2,017.1	2,015.0	6.1	5.9	171.93	-109.9	77.3	177.8	166.3	11.47	15.502	
2,050.0	2,046.6	2,066.6	2,064.1	6.2	6.0	170.79	-104.3	79.4	183.2	171.6	11.64	15.738	
2,090.0	2,085.9	2,106.3	2,103.5	6.2	6.1	169.96	-99.8	81.1	188.0	176.2	11.78	15.955	
2,100.0	2,095.7	2,116.2	2,113.3	6.3	6.1	169.75	-98.6	81.6	189.2	177.4	11.82	16.009	
2,185.0	2,179.1	2,200.4	2,196.9	6.5	6.4	168.13	-89.1	85.2	199.4	187.2	12.18	16.366	
2,200.0	2,193.9	2,215.2	2,211.6	6.5	6.4	167.86	-87.4	85.9	201.2	189.0	12.25	16.427	
2,280.0	2,272.4	2,294.5	2,290.3	6.8	6.6	166.50	-78.3	89.3	211.0	198.4	12.61	16.735	
2,300.0	2,292.0	2,314.3	2,310.0	6.8	6.7	166.18	-76.1	90.2	213.4	200.7	12.70	16.810	
2,375.0	2,365.7	2,388.6	2,383.7	7.1	6.9	165.05	-67.6	93.4	222.7	209.7	13.04	17.075	
2,400.0	2,390.2	2,413.4	2,408.3	7.2	7.0	164.69	-64.8	94.5	225.8	212.7	13.16	17.161	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,470.0	2,458.9	2,482.7	2,477.1	7.4	7.2	163.74	-56.9	97.5	234.6	221.1	13.49	17.389		
2,500.0	2,488.4	2,512.4	2,506.6	7.5	7.3	163.35	-53.5	98.8	238.4	224.7	13.63	17.484		
2,565.0	2,552.2	2,576.8	2,570.5	7.7	7.5	162.55	-46.2	101.6	246.6	232.6	13.95	17.680		
2,600.0	2,586.5	2,611.5	2,605.0	7.9	7.6	162.14	-42.2	103.1	251.0	236.9	14.11	17.783		
2,660.0	2,645.4	2,670.9	2,664.0	8.1	7.8	161.48	-35.5	105.7	258.6	244.2	14.41	17.950		
2,700.0	2,684.7	2,710.6	2,703.3	8.2	7.9	161.05	-31.0	107.4	263.7	249.1	14.60	18.060		
2,755.0	2,738.7	2,765.1	2,757.4	8.4	8.1	160.50	-24.8	109.7	270.8	255.9	14.88	18.203		
2,800.0	2,782.8	2,809.6	2,801.6	8.6	8.3	160.07	-19.7	111.7	276.6	261.5	15.10	18.317		
2,850.0	2,831.9	2,859.2	2,850.8	8.8	8.5	159.60	-14.0	113.8	283.0	267.7	15.35	18.439		
2,900.0	2,881.0	2,908.7	2,899.9	9.0	8.6	159.16	-8.4	116.0	289.5	273.9	15.60	18.558		
2,945.0	2,925.2	2,953.3	2,944.2	9.1	8.8	158.78	-3.3	117.9	295.3	279.5	15.82	18.661		
3,000.0	2,979.2	3,007.8	2,998.3	9.4	9.0	158.34	2.9	120.3	302.4	286.3	16.10	18.784		
3,040.0	3,018.4	3,047.4	3,037.6	9.5	9.1	158.03	7.4	122.0	307.6	291.3	16.30	18.870		
3,100.0	3,077.3	3,106.8	3,096.6	9.7	9.3	157.58	14.1	124.6	315.5	298.9	16.61	18.996		
3,135.0	3,111.7	3,141.5	3,131.0	9.9	9.5	157.33	18.1	126.1	320.0	303.2	16.78	19.066		
3,200.0	3,175.5	3,205.9	3,194.9	10.1	9.7	156.89	25.4	128.9	328.5	311.4	17.12	19.195		
3,230.0	3,205.0	3,235.6	3,224.4	10.3	9.8	156.69	28.8	130.2	332.5	315.2	17.27	19.253		
3,300.0	3,273.7	3,305.0	3,293.3	10.6	10.1	156.24	36.7	133.2	341.6	324.0	17.63	19.384		
3,325.0	3,298.2	3,329.7	3,317.8	10.7	10.2	156.09	39.5	134.3	344.9	327.2	17.75	19.429		
3,400.0	3,371.8	3,404.0	3,391.6	11.0	10.4	155.65	48.0	137.5	354.8	336.7	18.14	19.562		
3,420.0	3,391.5	3,423.8	3,411.2	11.0	10.5	155.53	50.2	138.4	357.4	339.2	18.24	19.597		
3,500.0	3,470.0	3,503.1	3,489.9	11.4	10.8	155.09	59.3	141.8	368.0	349.3	18.65	19.732		
3,515.0	3,484.7	3,518.0	3,504.7	11.4	10.9	155.02	61.0	142.4	370.0	351.2	18.73	19.756		
3,600.0	3,568.2	3,602.2	3,588.2	11.8	11.2	154.58	70.5	146.1	381.2	362.1	19.16	19.892		
3,610.0	3,578.0	3,612.1	3,598.1	11.8	11.2	154.53	71.7	146.5	382.5	363.3	19.22	19.908		
3,700.0	3,666.3	3,701.2	3,686.6	12.2	11.6	154.10	81.8	150.4	394.5	374.8	19.68	20.045		
3,705.0	3,671.2	3,706.2	3,691.5	12.2	11.6	154.08	82.4	150.6	395.1	375.4	19.70	20.052		
3,800.0	3,764.5	3,800.3	3,784.9	12.6	11.9	153.65	93.1	154.7	407.7	387.5	20.19	20.191		
3,895.0	3,857.7	3,894.4	3,878.3	13.1	12.3	153.25	103.8	158.8	420.4	399.7	20.68	20.323		
3,900.0	3,862.6	3,899.4	3,883.2	13.1	12.3	153.23	104.4	159.0	421.0	400.3	20.71	20.330		
3,990.0	3,951.0	3,988.5	3,971.7	13.5	12.7	152.87	114.5	162.9	433.0	411.9	21.18	20.449		
4,000.0	3,960.8	3,998.4	3,981.5	13.5	12.7	152.83	115.7	163.3	434.4	413.1	21.23	20.462		
4,085.0	4,044.2	4,082.6	4,065.1	13.9	13.0	152.52	125.2	167.0	445.7	424.0	21.66	20.572		
4,097.4	4,056.4	4,094.9	4,077.3	13.9	13.1	152.47	126.6	167.5	447.4	425.6	21.73	20.588		
4,100.0	4,059.0	4,097.5	4,079.9	13.9	13.1	152.47	126.9	167.6	447.7	426.0	21.74	20.593		
4,180.0	4,137.7	4,176.9	4,158.6	14.3	13.4	152.21	136.0	171.1	457.3	435.2	22.16	20.639		
4,200.0	4,157.5	4,196.7	4,178.4	14.4	13.5	152.12	138.2	171.9	459.4	437.2	22.26	20.639		
4,275.0	4,231.7	4,269.7	4,250.8	14.7	13.8	151.79	146.1	174.9	466.4	443.8	22.62	20.623		
4,300.0	4,256.5	4,294.0	4,275.0	14.8	13.9	151.67	148.6	175.9	468.4	445.7	22.73	20.603		
4,370.0	4,326.1	4,362.2	4,342.9	15.1	14.1	151.36	154.9	178.3	473.1	450.1	23.04	20.533		
4,400.0	4,356.0	4,391.4	4,372.0	15.3	14.2	151.22	157.4	179.2	474.8	451.6	23.17	20.488		
4,465.0	4,420.8	4,454.9	4,435.2	15.5	14.5	150.91	162.3	181.1	477.6	454.2	23.43	20.380		
4,500.0	4,455.7	4,489.1	4,469.3	15.6	14.6	150.75	164.7	182.0	478.7	455.1	23.57	20.305		
4,560.0	4,515.7	4,547.7	4,527.8	15.8	14.8	150.45	168.3	183.4	479.8	456.0	23.78	20.177		
4,600.0	4,555.6	4,586.8	4,566.9	16.0	14.9	150.25	170.4	184.2	480.0	456.1	23.91	20.073		
4,647.4	4,603.0	4,633.1	4,613.1	16.0	15.1	125.54	172.6	185.0	479.7	455.7	23.99	19.999		
4,655.0	4,610.6	4,640.6	4,620.6	16.0	15.1	125.50	172.9	185.1	479.6	455.6	23.99	19.991		
4,700.0	4,655.6	4,684.6	4,664.6	16.1	15.2	125.29	174.6	185.8	479.2	455.1	24.03	19.943		
4,750.0	4,705.6	4,733.6	4,713.5	16.1	15.4	125.10	176.1	186.4	478.7	454.7	24.08	19.879		
4,800.0	4,755.6	4,782.6	4,762.5	16.1	15.5	124.97	177.2	186.8	478.5	454.3	24.15	19.814		
4,845.0	4,800.6	4,826.7	4,806.6	16.1	15.6	124.88	177.9	187.0	478.3	454.1	24.21	19.758		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
4,900.0	4,855.6	4,880.6	4,860.5	16.2	15.7	124.83	178.3	187.2	478.2	453.9	24.28	19.691	
4,924.1	4,879.7	4,904.3	4,884.2	16.2	15.7	124.83	178.3	187.2	478.2	453.8	24.32	19.663	
4,940.0	4,895.6	4,920.3	4,900.1	16.2	15.8	124.83	178.3	187.2	478.2	453.8	24.34	19.642	
5,000.0	4,955.6	4,980.3	4,960.1	16.2	15.8	124.83	178.3	187.2	478.2	453.7	24.44	19.567	
5,035.0	4,990.6	5,015.3	4,995.1	16.2	15.8	124.83	178.3	187.2	478.2	453.7	24.49	19.524	
5,100.0	5,055.6	5,080.3	5,060.1	16.3	15.8	124.83	178.3	187.2	478.2	453.6	24.59	19.443	
5,130.0	5,085.6	5,110.3	5,090.1	16.3	15.9	124.83	178.3	187.2	478.2	453.5	24.64	19.406	
5,200.0	5,155.6	5,180.3	5,160.1	16.3	15.9	124.83	178.3	187.2	478.2	453.4	24.75	19.321	
5,225.0	5,180.6	5,205.3	5,185.1	16.4	15.9	124.83	178.3	187.2	478.2	453.4	24.79	19.290	
5,300.0	5,255.6	5,280.3	5,260.1	16.4	16.0	124.83	178.3	187.2	478.2	453.3	24.90	19.200	
5,320.0	5,275.6	5,300.3	5,280.1	16.4	16.0	124.83	178.3	187.2	478.2	453.2	24.94	19.176	
5,400.0	5,355.6	5,380.3	5,360.1	16.5	16.0	124.83	178.3	187.2	478.2	453.1	25.06	19.080	
5,415.0	5,370.6	5,395.3	5,375.1	16.5	16.0	124.83	178.3	187.2	478.2	453.1	25.08	19.062	
5,500.0	5,455.6	5,480.3	5,460.1	16.5	16.1	124.83	178.3	187.2	478.2	452.9	25.22	18.962	
5,510.0	5,465.6	5,490.3	5,470.1	16.5	16.1	124.83	178.3	187.2	478.2	452.9	25.23	18.951	
5,600.0	5,555.6	5,580.3	5,560.1	16.6	16.1	124.83	178.3	187.2	478.2	452.8	25.37	18.846	
5,605.0	5,560.6	5,585.3	5,565.1	16.6	16.2	124.83	178.3	187.2	478.2	452.8	25.38	18.840	
5,700.0	5,655.6	5,680.3	5,660.1	16.6	16.2	124.83	178.3	187.2	478.2	452.6	25.53	18.731	
5,795.0	5,750.6	5,775.3	5,755.1	16.7	16.3	124.83	178.3	187.2	478.2	452.5	25.68	18.623	
5,800.0	5,755.6	5,780.3	5,760.1	16.7	16.3	124.83	178.3	187.2	478.2	452.5	25.68	18.617	
5,890.0	5,845.6	5,870.3	5,850.1	16.7	16.3	124.83	178.3	187.2	478.2	452.3	25.82	18.516	
5,900.0	5,855.6	5,880.3	5,860.1	16.8	16.3	124.83	178.3	187.2	478.2	452.3	25.84	18.505	
5,985.0	5,940.6	5,965.3	5,945.1	16.8	16.4	124.83	178.3	187.2	478.2	452.2	25.97	18.411	
6,000.0	5,955.6	5,980.3	5,960.1	16.8	16.4	124.83	178.3	187.2	478.2	452.2	26.00	18.394	
6,080.0	6,035.6	6,060.3	6,040.1	16.9	16.4	124.83	178.3	187.2	478.2	452.0	26.12	18.306	
6,100.0	6,055.6	6,080.3	6,060.1	16.9	16.5	124.83	178.3	187.2	478.2	452.0	26.15	18.284	
6,175.0	6,130.6	6,155.3	6,135.1	16.9	16.5	124.83	178.3	187.2	478.2	451.9	26.27	18.203	
6,200.0	6,155.6	6,180.3	6,160.1	16.9	16.5	124.83	178.3	187.2	478.2	451.9	26.31	18.176	
6,270.0	6,225.6	6,250.3	6,230.1	17.0	16.6	124.83	178.3	187.2	478.2	451.7	26.42	18.101	
6,300.0	6,255.6	6,280.3	6,260.1	17.0	16.6	124.83	178.3	187.2	478.2	451.7	26.46	18.069	
6,365.0	6,320.6	6,345.3	6,325.1	17.0	16.6	124.83	178.3	187.2	478.2	451.6	26.56	18.000	
6,400.0	6,355.6	6,380.3	6,360.1	17.0	16.6	124.83	178.3	187.2	478.2	451.5	26.62	17.963	
6,460.0	6,415.6	6,440.3	6,420.1	17.1	16.7	124.83	178.3	187.2	478.2	451.5	26.71	17.901	
6,500.0	6,455.6	6,480.3	6,460.1	17.1	16.7	124.83	178.3	187.2	478.2	451.4	26.77	17.859	
6,555.0	6,510.6	6,535.3	6,515.1	17.1	16.7	124.83	178.3	187.2	478.2	451.3	26.86	17.802	
6,600.0	6,555.6	6,580.3	6,560.1	17.2	16.8	124.83	178.3	187.2	478.2	451.2	26.93	17.756	
6,650.0	6,605.6	6,630.3	6,610.1	17.2	16.8	124.83	178.3	187.2	478.2	451.2	27.01	17.704	
6,700.0	6,655.6	6,680.3	6,660.1	17.2	16.8	124.83	178.3	187.2	478.2	451.1	27.09	17.653	
6,745.0	6,700.6	6,725.3	6,705.1	17.3	16.9	124.83	178.3	187.2	478.2	451.0	27.16	17.608	
6,800.0	6,755.6	6,780.3	6,760.1	17.3	16.9	124.83	178.3	187.2	478.2	450.9	27.24	17.553	
6,840.0	6,795.6	6,820.3	6,800.1	17.3	16.9	124.83	178.3	187.2	478.2	450.9	27.30	17.512	
6,900.0	6,855.6	6,880.3	6,860.1	17.4	17.0	124.83	178.3	187.2	478.2	450.8	27.40	17.453	
6,935.0	6,890.6	6,915.3	6,895.1	17.4	17.0	124.83	178.3	187.2	478.2	450.7	27.45	17.418	
7,000.0	6,955.6	6,980.3	6,960.1	17.4	17.0	124.83	178.3	187.2	478.2	450.6	27.55	17.354	
7,030.0	6,985.6	7,010.3	6,990.1	17.4	17.0	124.83	178.3	187.2	478.2	450.6	27.60	17.325	
7,100.0	7,055.6	7,080.3	7,060.1	17.5	17.1	124.83	178.3	187.2	478.2	450.5	27.71	17.256	
7,125.0	7,080.6	7,105.3	7,085.1	17.5	17.1	124.83	178.3	187.2	478.2	450.4	27.75	17.232	
7,200.0	7,155.6	7,180.3	7,160.1	17.5	17.1	124.83	178.3	187.2	478.2	450.3	27.87	17.160	
7,220.0	7,175.6	7,200.3	7,180.1	17.6	17.2	124.83	178.3	187.2	478.2	450.3	27.90	17.141	
7,300.0	7,255.6	7,280.3	7,260.1	17.6	17.2	124.83	178.3	187.2	478.2	450.1	28.02	17.064	
7,315.0	7,270.6	7,295.3	7,275.1	17.6	17.2	124.83	178.3	187.2	478.2	450.1	28.04	17.050	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,400.0	7,355.6	7,380.3	7,360.1	17.7	17.3	124.83	178.3	187.2	478.2	450.0	28.18	16.970	
7,410.0	7,365.6	7,390.3	7,370.1	17.7	17.3	124.83	178.3	187.2	478.2	450.0	28.19	16.961	
7,500.0	7,455.6	7,480.3	7,460.1	17.7	17.3	124.83	178.3	187.2	478.2	449.8	28.33	16.877	
7,505.0	7,460.6	7,485.3	7,465.1	17.7	17.3	124.83	178.3	187.2	478.2	449.8	28.34	16.872	
7,600.0	7,555.6	7,580.3	7,560.1	17.8	17.4	124.83	178.3	187.2	478.2	449.7	28.49	16.784	
7,695.0	7,650.6	7,675.3	7,655.1	17.8	17.5	124.83	178.3	187.2	478.2	449.5	28.64	16.697	
7,700.0	7,655.6	7,680.3	7,660.1	17.8	17.5	124.83	178.3	187.2	478.2	449.5	28.64	16.693	
7,790.0	7,745.6	7,770.3	7,750.1	17.9	17.5	124.83	178.3	187.2	478.2	449.4	28.79	16.611	
7,800.0	7,755.6	7,780.3	7,760.1	17.9	17.5	124.83	178.3	187.2	478.2	449.4	28.80	16.602	
7,885.0	7,840.6	7,865.3	7,845.1	18.0	17.6	124.83	178.3	187.2	478.2	449.2	28.93	16.526	
7,900.0	7,855.6	7,880.3	7,860.1	18.0	17.6	124.83	178.3	187.2	478.2	449.2	28.96	16.513	
7,980.0	7,935.6	7,960.3	7,940.1	18.0	17.6	124.83	178.3	187.2	478.2	449.1	29.08	16.442	
8,000.0	7,955.6	7,980.3	7,960.1	18.0	17.7	124.83	178.3	187.2	478.2	449.1	29.11	16.424	
8,075.0	8,030.6	8,055.3	8,035.1	18.1	17.7	124.83	178.3	187.2	478.2	448.9	29.23	16.359	
8,100.0	8,055.6	8,080.3	8,060.1	18.1	17.7	124.83	178.3	187.2	478.2	448.9	29.27	16.337	
8,170.0	8,125.6	8,150.3	8,130.1	18.1	17.8	124.83	178.3	187.2	478.2	448.8	29.38	16.276	
8,200.0	8,155.6	8,180.3	8,160.1	18.2	17.8	124.83	178.3	187.2	478.2	448.7	29.42	16.250	
8,265.0	8,220.6	8,245.3	8,225.1	18.2	17.8	124.83	178.3	187.2	478.2	448.6	29.53	16.194	
8,300.0	8,255.6	8,280.3	8,260.1	18.2	17.8	124.83	178.3	187.2	478.2	448.6	29.58	16.164	
8,360.0	8,315.6	8,340.3	8,320.1	18.3	17.9	124.83	178.3	187.2	478.2	448.5	29.67	16.113	
8,400.0	8,355.6	8,380.3	8,360.1	18.3	17.9	124.83	178.3	187.2	478.2	448.4	29.74	16.080	
8,406.9	8,362.5	8,387.1	8,367.0	18.3	17.9	124.83	178.3	187.2	478.2	448.4	29.75	16.074	
8,455.0	8,410.6	8,433.3	8,413.2	18.3	17.9	124.83	178.3	187.2	478.2	448.4	29.80	16.047	
8,500.0	8,455.6	8,463.8	8,443.7	18.4	18.0	124.93	177.2	187.2	479.0	449.2	29.80	16.076	
8,550.0	8,505.6	8,500.0	8,479.7	18.4	18.0	125.26	173.9	187.2	481.6	451.8	29.84	16.137	
8,600.0	8,555.6	8,530.8	8,510.2	18.4	18.0	125.71	169.3	187.1	485.9	456.0	29.88	16.259	
8,645.0	8,600.6	8,560.1	8,538.9	18.4	18.1	126.28	163.4	187.1	491.2	461.3	29.95	16.402	
8,700.0	8,655.6	8,600.0	8,577.4	18.5	18.1	127.26	153.0	187.0	499.8	469.7	30.09	16.610	
8,740.0	8,695.6	8,619.7	8,596.1	18.5	18.2	127.82	146.9	186.9	507.3	477.2	30.13	16.836	
8,800.0	8,755.6	8,650.0	8,624.5	18.5	18.2	128.79	136.3	186.9	521.1	490.8	30.23	17.236	
8,835.0	8,790.6	8,675.3	8,647.7	18.6	18.2	129.67	126.2	186.8	530.3	499.9	30.36	17.465	
8,900.0	8,855.6	8,710.7	8,679.4	18.6	18.3	131.02	110.5	186.6	550.0	519.5	30.53	18.013	
8,930.0	8,885.6	8,726.3	8,693.1	18.6	18.3	131.64	102.9	186.6	560.2	529.6	30.61	18.298	
9,000.0	8,955.6	8,761.0	8,722.6	18.7	18.4	133.10	84.9	186.4	586.7	555.9	30.81	19.043	
9,025.0	8,980.6	8,772.7	8,732.4	18.7	18.4	133.60	78.4	186.4	597.0	566.2	30.88	19.335	
9,100.0	9,055.6	8,800.0	8,754.5	18.7	18.4	134.81	62.4	186.2	630.9	599.8	31.05	20.321	
9,120.0	9,075.6	8,814.4	8,765.9	18.8	18.4	135.46	53.6	186.2	640.5	609.4	31.15	20.562	
9,200.0	9,155.6	8,850.0	8,793.1	18.8	18.5	137.08	30.6	186.0	681.9	650.5	31.41	21.711	
9,215.0	9,170.6	8,850.0	8,793.1	18.8	18.5	137.08	30.6	186.0	690.1	658.7	31.41	21.970	
9,257.4	9,213.0	8,867.2	8,805.7	18.8	18.5	137.88	18.8	185.9	714.0	682.4	31.54	22.637	
9,300.0	9,255.6	8,882.5	8,816.5	18.9	18.5	-40.02	8.1	185.8	738.1	706.7	31.43	23.485	
9,310.0	9,265.6	8,886.1	8,819.1	18.9	18.5	-39.45	5.5	185.8	743.6	712.2	31.45	23.642	
9,350.0	9,305.2	8,900.0	8,828.7	18.9	18.6	-37.37	-4.5	185.7	765.2	733.6	31.55	24.252	
9,400.0	9,354.2	8,919.3	8,841.5	19.0	18.6	-35.04	-18.8	185.6	790.7	759.0	31.68	24.961	
9,405.0	9,359.0	8,921.1	8,842.8	19.0	18.6	-34.83	-20.3	185.6	793.1	761.4	31.69	25.030	
9,450.0	9,402.0	8,950.0	8,861.1	19.1	18.6	-32.78	-42.6	185.4	814.7	782.8	31.86	25.572	
9,500.0	9,448.5	8,950.0	8,861.1	19.1	18.6	-31.49	-42.6	185.4	836.6	804.7	31.89	26.237	
9,550.0	9,493.1	8,976.5	8,876.9	19.2	18.6	-29.91	-63.9	185.2	856.6	824.6	32.05	26.729	
9,595.0	9,531.4	9,000.0	8,890.0	19.2	18.7	-28.72	-83.3	185.0	873.0	840.8	32.19	27.118	
9,600.0	9,535.6	9,000.0	8,890.0	19.3	18.7	-28.63	-83.3	185.0	874.7	842.5	32.20	27.166	
9,650.0	9,575.6	9,015.6	8,898.3	19.3	18.7	-27.66	-96.5	184.9	890.6	858.3	32.32	27.553	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,690.0	9,605.7	9,031.4	8,906.4	19.4	18.7	-26.98	-110.2	184.8	901.8	869.4	32.44	27.797		
9,700.0	9,612.9	9,050.0	8,915.3	19.4	18.7	-26.70	-126.4	184.7	904.7	872.2	32.52	27.816		
9,750.0	9,647.2	9,050.0	8,915.3	19.4	18.7	-26.18	-126.4	184.7	916.0	883.4	32.62	28.083		
9,785.0	9,669.2	9,069.2	8,924.0	19.5	18.7	-25.76	-143.6	184.5	922.7	889.9	32.75	28.174		
9,800.0	9,678.1	9,075.2	8,926.6	19.5	18.8	-25.62	-149.0	184.5	925.2	892.4	32.80	28.207		
9,850.0	9,705.5	9,100.0	8,936.8	19.6	18.8	-25.22	-171.6	184.3	932.2	899.2	32.99	28.258		
9,880.0	9,720.2	9,100.0	8,936.8	19.6	18.8	-25.09	-171.6	184.3	935.3	902.2	33.07	28.281		
9,900.0	9,729.1	9,115.3	8,942.6	19.6	18.8	-24.99	-185.7	184.2	936.8	903.6	33.16	28.248		
9,950.0	9,748.9	9,150.0	8,954.2	19.6	18.8	-24.85	-218.4	183.9	939.4	906.0	33.39	28.136		
9,975.0	9,757.2	9,150.0	8,954.2	19.7	18.8	-24.85	-218.4	183.9	939.3	905.9	33.46	28.070		
10,000.0	9,764.5	9,150.0	8,954.2	19.7	18.8	-24.86	-218.4	183.9	939.0	905.5	33.55	27.990		
10,050.0	9,776.0	9,175.6	8,961.5	19.7	18.8	-25.00	-242.9	183.7	936.5	902.7	33.76	27.737		
10,070.0	9,779.3	9,183.6	8,963.6	19.7	18.8	-25.09	-250.7	183.7	934.9	901.0	33.85	27.620		
10,100.0	9,783.1	9,200.0	8,967.5	19.7	18.9	-25.28	-266.6	183.5	931.7	897.7	33.98	27.421		
10,150.0	9,786.0	9,215.7	8,970.8	19.8	18.9	-25.66	-281.9	183.4	924.5	890.3	34.18	27.045		
10,157.1	9,786.0	9,218.5	8,971.3	19.8	18.9	-25.73	-284.7	183.4	923.3	889.1	34.21	26.989		
10,165.0	9,786.0	9,221.7	8,971.9	19.8	18.9	-25.74	-287.8	183.3	922.0	887.7	34.24	26.929		
10,200.0	9,786.0	9,250.0	8,976.5	19.8	18.9	-25.87	-315.7	183.1	916.7	882.4	34.37	26.673		
10,260.0	9,786.1	9,250.0	8,976.5	19.8	18.9	-25.87	-315.7	183.1	909.0	874.4	34.59	26.276		
10,300.0	9,786.1	9,276.5	8,979.6	19.8	18.9	-25.95	-342.1	182.9	905.0	870.3	34.77	26.031		
10,355.0	9,786.1	9,300.0	8,981.3	19.9	18.9	-26.00	-365.5	182.7	901.5	866.5	35.03	25.737		
10,400.0	9,786.1	9,317.9	8,981.9	19.9	18.9	-26.02	-383.3	182.6	900.1	864.8	35.24	25.545		
10,427.5	9,786.1	9,329.7	8,982.0	19.9	18.9	-26.02	-395.2	182.5	899.9	864.5	35.37	25.439		
10,450.0	9,786.2	9,352.3	8,982.0	19.9	18.9	-26.02	-417.8	182.3	899.9	864.4	35.48	25.365		
10,500.0	9,786.2	9,402.3	8,982.0	19.9	18.9	-26.02	-467.8	181.9	899.9	864.1	35.71	25.200		
10,545.0	9,786.2	9,447.3	8,982.1	20.0	19.0	-26.02	-512.8	181.5	899.9	863.9	35.95	25.034		
10,600.0	9,786.2	9,502.3	8,982.1	20.0	19.0	-26.02	-567.8	181.0	899.9	863.6	36.24	24.834		
10,640.0	9,786.3	9,542.3	8,982.1	20.0	19.0	-26.02	-607.8	180.7	899.9	863.4	36.47	24.674		
10,700.0	9,786.3	9,602.3	8,982.1	20.1	19.0	-26.02	-667.8	180.2	899.9	863.0	36.82	24.439		
10,735.0	9,786.3	9,637.3	8,982.1	20.1	19.0	-26.02	-702.8	179.9	899.9	862.8	37.05	24.291		
10,800.0	9,786.3	9,702.3	8,982.2	20.2	19.1	-26.02	-767.8	179.4	899.9	862.4	37.46	24.020		
10,830.0	9,786.4	9,732.3	8,982.2	20.2	19.1	-26.02	-797.8	179.1	899.9	862.2	37.67	23.887		
10,900.0	9,786.4	9,802.3	8,982.2	20.3	19.1	-26.02	-867.8	178.6	899.9	861.7	38.16	23.582		
10,925.0	9,786.4	9,827.3	8,982.2	20.3	19.1	-26.02	-892.8	178.4	899.9	861.5	38.35	23.467		
11,000.0	9,786.4	9,902.3	8,982.3	20.4	19.2	-26.02	-967.8	177.7	899.9	861.0	38.91	23.129		
11,020.0	9,786.5	9,922.3	8,982.3	20.4	19.2	-26.02	-987.7	177.6	899.9	860.8	39.07	23.035		
11,100.0	9,786.5	10,002.3	8,982.3	20.5	19.3	-26.02	-1,067.7	176.9	899.9	860.2	39.70	22.667		
11,115.0	9,786.5	10,017.3	8,982.3	20.6	19.3	-26.02	-1,082.7	176.8	899.9	860.1	39.83	22.595		
11,200.0	9,786.5	10,102.3	8,982.4	20.7	19.4	-26.02	-1,167.7	176.1	899.9	859.4	40.54	22.198		
11,210.0	9,786.6	10,112.3	8,982.4	20.7	19.4	-26.02	-1,177.7	176.0	899.9	859.3	40.63	22.149		
11,300.0	9,786.6	10,202.3	8,982.4	20.9	19.5	-26.02	-1,267.7	175.3	899.9	858.5	41.42	21.725		
11,305.0	9,786.6	10,207.3	8,982.4	20.9	19.5	-26.02	-1,272.7	175.2	899.9	858.4	41.47	21.701		
11,400.0	9,786.7	10,302.3	8,982.5	21.1	19.6	-26.02	-1,367.7	174.4	899.9	857.6	42.34	21.253		
11,495.0	9,786.7	10,397.3	8,982.5	21.4	19.8	-26.02	-1,462.7	173.6	899.9	856.7	43.25	20.806		
11,500.0	9,786.7	10,402.3	8,982.5	21.4	19.8	-26.02	-1,467.7	173.6	899.9	856.6	43.30	20.783		
11,590.0	9,786.8	10,492.3	8,982.5	21.6	20.0	-26.02	-1,557.7	172.9	899.9	855.7	44.19	20.363		
11,600.0	9,786.8	10,502.3	8,982.5	21.7	20.0	-26.02	-1,567.7	172.8	899.9	855.6	44.29	20.317		
11,685.0	9,786.8	10,587.3	8,982.6	21.9	20.2	-26.02	-1,652.7	172.1	899.9	854.8	45.16	19.925		
11,700.0	9,786.8	10,602.3	8,982.6	22.0	20.2	-26.02	-1,667.7	172.0	899.9	854.6	45.32	19.858		
11,780.0	9,786.9	10,682.3	8,982.6	22.3	20.5	-26.02	-1,747.7	171.3	899.9	853.8	46.16	19.495		
11,800.0	9,786.9	10,702.3	8,982.6	22.4	20.5	-26.02	-1,767.7	171.1	899.9	853.6	46.37	19.406		

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-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 (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
11,875.0	9,786.9	10,777.3	8,982.7	22.7	20.8	-26.02	-1,842.7	170.5	899.9	852.8	47.19	19.072
11,900.0	9,786.9	10,802.3	8,982.7	22.8	20.9	-26.02	-1,867.7	170.3	899.9	852.5	47.46	18.963
11,970.0	9,787.0	10,872.3	8,982.7	23.1	21.1	-26.02	-1,937.7	169.7	899.9	851.7	48.23	18.658
12,000.0	9,787.0	10,902.3	8,982.7	23.2	21.3	-26.02	-1,967.7	169.5	899.9	851.4	48.57	18.530
12,065.0	9,787.0	10,967.3	8,982.8	23.5	21.5	-26.02	-2,032.7	168.9	899.9	850.6	49.30	18.253
12,100.0	9,787.0	11,002.3	8,982.8	23.7	21.7	-26.02	-2,067.7	168.6	900.0	850.2	49.70	18.107
12,160.0	9,787.0	11,062.3	8,982.8	24.0	22.0	-26.02	-2,127.7	168.2	900.0	849.6	50.39	17.858
12,200.0	9,787.1	11,102.3	8,982.8	24.2	22.2	-26.02	-2,167.7	167.8	900.0	849.1	50.86	17.696
12,255.0	9,787.1	11,157.3	8,982.9	24.5	22.5	-26.02	-2,222.7	167.4	900.0	848.5	51.51	17.473
12,300.0	9,787.1	11,202.3	8,982.9	24.7	22.7	-26.02	-2,267.7	167.0	900.0	847.9	52.04	17.295
12,350.0	9,787.1	11,252.3	8,982.9	25.0	23.0	-26.02	-2,317.7	166.6	900.0	847.3	52.63	17.098
12,400.0	9,787.2	11,302.3	8,982.9	25.3	23.2	-26.02	-2,367.7	166.2	900.0	846.7	53.23	16.906
12,445.0	9,787.2	11,347.3	8,982.9	25.6	23.5	-26.02	-2,412.7	165.8	900.0	846.2	53.78	16.734
12,500.0	9,787.2	11,402.3	8,983.0	25.9	23.8	-26.02	-2,467.7	165.3	900.0	845.5	54.45	16.528
12,540.0	9,787.2	11,442.3	8,983.0	26.1	24.0	-26.02	-2,507.7	165.0	900.0	845.0	54.94	16.380
12,600.0	9,787.3	11,502.3	8,983.0	26.5	24.4	-26.02	-2,567.7	164.5	900.0	844.3	55.68	16.162
12,635.0	9,787.3	11,537.3	8,983.0	26.7	24.6	-26.02	-2,602.7	164.2	900.0	843.9	56.12	16.036
12,700.0	9,787.3	11,602.3	8,983.1	27.0	25.0	-26.02	-2,667.7	163.7	900.0	843.1	56.93	15.807
12,730.0	9,787.3	11,632.3	8,983.1	27.2	25.2	-26.02	-2,697.7	163.4	900.0	842.7	57.31	15.703
12,800.0	9,787.4	11,702.3	8,983.1	27.7	25.6	-26.02	-2,767.7	162.9	900.0	841.8	58.20	15.464
12,825.0	9,787.4	11,727.3	8,983.1	27.8	25.8	-26.02	-2,792.7	162.7	900.0	841.5	58.52	15.379
12,900.0	9,787.4	11,802.3	8,983.2	28.3	26.2	-26.02	-2,867.7	162.0	900.0	840.5	59.48	15.131
12,920.0	9,787.4	11,822.3	8,983.2	28.4	26.3	-26.02	-2,887.7	161.9	900.0	840.3	59.74	15.066
13,000.0	9,787.5	11,902.3	8,983.2	28.9	26.9	-26.02	-2,967.7	161.2	900.0	839.2	60.77	14.810
13,015.0	9,787.5	11,917.3	8,983.2	29.0	27.0	-26.02	-2,982.7	161.1	900.0	839.0	60.97	14.762
13,100.0	9,787.5	12,002.3	8,983.2	29.5	27.5	-26.02	-3,067.7	160.4	900.0	837.9	62.08	14.498
13,110.0	9,787.5	12,012.3	8,983.3	29.6	27.6	-26.02	-3,077.7	160.3	900.0	837.8	62.21	14.468
13,200.0	9,787.6	12,102.3	8,983.3	30.2	28.2	-26.02	-3,167.7	159.6	900.0	836.6	63.39	14.197
13,205.0	9,787.6	12,107.3	8,983.3	30.2	28.2	-26.02	-3,172.7	159.5	900.0	836.6	63.46	14.182
13,300.0	9,787.6	12,202.3	8,983.3	30.8	28.8	-26.02	-3,267.7	158.7	900.0	835.3	64.72	13.906
13,395.0	9,787.7	12,297.3	8,983.4	31.5	29.5	-26.02	-3,362.7	157.9	900.0	834.0	65.99	13.638
13,400.0	9,787.7	12,302.3	8,983.4	31.5	29.5	-26.02	-3,367.7	157.9	900.0	834.0	66.06	13.624
13,490.0	9,787.7	12,392.3	8,983.4	32.1	30.1	-26.02	-3,457.7	157.2	900.0	832.8	67.27	13.379
13,500.0	9,787.8	12,402.3	8,983.4	32.2	30.2	-26.02	-3,467.7	157.1	900.0	832.6	67.41	13.352
13,585.0	9,787.8	12,487.3	8,983.5	32.7	30.7	-26.02	-3,552.7	156.4	900.0	831.5	68.56	13.128
13,600.0	9,787.8	12,502.3	8,983.5	32.8	30.8	-26.02	-3,567.7	156.3	900.0	831.3	68.76	13.089
13,680.0	9,787.8	12,582.3	8,983.5	33.4	31.4	-26.02	-3,647.7	155.6	900.0	830.2	69.86	12.884
13,700.0	9,787.9	12,602.3	8,983.5	33.5	31.5	-26.02	-3,667.7	155.4	900.0	829.9	70.13	12.834
13,775.0	9,787.9	12,677.3	8,983.6	34.0	32.0	-26.02	-3,742.7	154.8	900.0	828.9	71.16	12.648
13,800.0	9,787.9	12,702.3	8,983.6	34.2	32.2	-26.02	-3,767.7	154.6	900.1	828.5	71.50	12.588
13,870.0	9,787.9	12,772.3	8,983.6	34.7	32.7	-26.02	-3,837.7	154.0	900.1	827.6	72.47	12.420
13,900.0	9,788.0	12,802.3	8,983.6	34.9	32.9	-26.02	-3,867.7	153.8	900.1	827.2	72.88	12.349
13,965.0	9,788.0	12,867.3	8,983.7	35.3	33.3	-26.02	-3,932.6	153.2	900.1	826.3	73.79	12.198
14,000.0	9,788.0	12,902.3	8,983.7	35.6	33.6	-26.02	-3,967.6	153.0	900.1	825.8	74.27	12.118
14,060.0	9,788.0	12,962.3	8,983.7	36.0	34.0	-26.02	-4,027.6	152.5	900.1	825.0	75.11	11.983
14,100.0	9,788.1	13,002.3	8,983.7	36.3	34.3	-26.02	-4,067.6	152.1	900.1	824.4	75.67	11.895
14,155.0	9,788.1	13,057.3	8,983.7	36.6	34.7	-26.02	-4,122.6	151.7	900.1	823.6	76.44	11.775
14,200.0	9,788.1	13,102.3	8,983.8	37.0	35.0	-26.02	-4,167.6	151.3	900.1	823.0	77.07	11.679
14,250.0	9,788.1	13,152.3	8,983.8	37.3	35.3	-26.02	-4,217.6	150.9	900.1	822.3	77.77	11.573
14,300.0	9,788.2	13,202.3	8,983.8	37.7	35.7	-26.02	-4,267.6	150.5	900.1	821.6	78.48	11.469
14,345.0	9,788.2	13,247.3	8,983.8	38.0	36.0	-26.02	-4,312.6	150.1	900.1	821.0	79.11	11.377

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
14,400.0	9,788.2	13,302.3	8,983.9	38.4	36.4	-26.02	-4,367.6	149.6	900.1	820.2	79.89	11.266	
14,440.0	9,788.2	13,342.3	8,983.9	38.6	36.7	-26.02	-4,407.6	149.3	900.1	819.6	80.46	11.187	
14,500.0	9,788.3	13,402.3	8,983.9	39.1	37.1	-26.02	-4,467.6	148.8	900.1	818.8	81.31	11.070	
14,535.0	9,788.3	13,437.3	8,983.9	39.3	37.4	-26.02	-4,502.6	148.5	900.1	818.3	81.81	11.003	
14,600.0	9,788.3	13,502.3	8,983.9	39.8	37.8	-26.02	-4,567.6	148.0	900.1	817.4	82.73	10.879	
14,630.0	9,788.3	13,532.3	8,984.0	40.0	38.0	-26.02	-4,597.6	147.7	900.1	816.9	83.16	10.823	
14,700.0	9,788.4	13,602.3	8,984.0	40.5	38.5	-26.02	-4,667.6	147.2	900.1	815.9	84.16	10.695	
14,725.0	9,788.4	13,627.3	8,984.0	40.6	38.7	-26.02	-4,692.6	147.0	900.1	815.6	84.52	10.649	
14,800.0	9,788.4	13,702.3	8,984.0	41.2	39.3	-26.02	-4,767.6	146.3	900.1	814.5	85.60	10.516	
14,820.0	9,788.4	13,722.3	8,984.1	41.3	39.4	-26.02	-4,787.6	146.2	900.1	814.2	85.88	10.481	
14,900.0	9,788.5	13,802.3	8,984.1	41.9	40.0	-26.02	-4,867.6	145.5	900.1	813.1	87.03	10.342	
14,915.0	9,788.5	13,817.3	8,984.1	42.0	40.1	-26.02	-4,882.6	145.4	900.1	812.9	87.25	10.316	
15,000.0	9,788.5	13,902.3	8,984.1	42.6	40.7	-26.02	-4,967.6	144.7	900.1	811.6	88.48	10.173	
15,010.0	9,788.5	13,912.3	8,984.1	42.7	40.8	-26.02	-4,977.6	144.6	900.1	811.5	88.62	10.157	
15,100.0	9,788.6	14,002.3	8,984.2	43.3	41.4	-26.02	-5,067.6	143.9	900.1	810.2	89.92	10.010	
15,105.0	9,788.6	14,007.3	8,984.2	43.4	41.4	-26.02	-5,072.6	143.8	900.1	810.1	90.00	10.002	
15,200.0	9,788.6	14,102.3	8,984.2	44.0	42.1	-26.02	-5,167.6	143.0	900.1	808.8	91.37	9.851	
15,295.0	9,788.7	14,197.3	8,984.3	44.7	42.8	-26.02	-5,262.6	142.3	900.1	807.4	92.76	9.704	
15,300.0	9,788.7	14,202.3	8,984.3	44.8	42.9	-26.02	-5,267.6	142.2	900.1	807.3	92.83	9.697	
15,390.0	9,788.7	14,292.3	8,984.3	45.4	43.5	-26.02	-5,357.6	141.5	900.1	806.0	94.14	9.562	
15,400.0	9,788.7	14,302.3	8,984.3	45.5	43.6	-26.02	-5,367.6	141.4	900.1	805.9	94.29	9.547	
15,485.0	9,788.8	14,387.3	8,984.4	46.1	44.2	-26.02	-5,452.6	140.7	900.2	804.6	95.53	9.423	
15,500.0	9,788.8	14,402.3	8,984.4	46.2	44.3	-26.02	-5,467.6	140.6	900.2	804.4	95.75	9.401	
15,580.0	9,788.8	14,482.3	8,984.4	46.8	44.9	-26.02	-5,547.6	139.9	900.2	803.2	96.92	9.288	
15,600.0	9,788.9	14,502.3	8,984.4	46.9	45.0	-26.02	-5,567.6	139.7	900.2	802.9	97.21	9.260	
15,675.0	9,788.9	14,577.3	8,984.5	47.5	45.6	-26.02	-5,642.6	139.1	900.2	801.9	98.31	9.156	
15,700.0	9,788.9	14,602.3	8,984.5	47.6	45.8	-26.02	-5,667.6	138.9	900.2	801.5	98.68	9.122	
15,770.0	9,788.9	14,672.3	8,984.5	48.2	46.3	-26.02	-5,737.6	138.3	900.2	800.5	99.71	9.028	
15,800.0	9,789.0	14,702.3	8,984.5	48.4	46.5	-26.02	-5,767.6	138.1	900.2	800.0	100.15	8.988	
15,865.0	9,789.0	14,767.3	8,984.5	48.8	47.0	-26.02	-5,832.6	137.5	900.2	799.1	101.10	8.903	
15,900.0	9,789.0	14,802.3	8,984.6	49.1	47.2	-26.02	-5,867.6	137.3	900.2	798.6	101.62	8.858	
15,960.0	9,789.0	14,862.3	8,984.6	49.5	47.7	-26.02	-5,927.6	136.8	900.2	797.7	102.50	8.782	
16,000.0	9,789.1	14,902.3	8,984.6	49.8	48.0	-26.02	-5,967.6	136.4	900.2	797.1	103.09	8.732	
16,055.0	9,789.1	14,957.3	8,984.6	50.2	48.4	-26.02	-6,022.6	136.0	900.2	796.3	103.91	8.663	
16,100.0	9,789.1	15,002.3	8,984.6	50.6	48.7	-26.02	-6,067.6	135.6	900.2	795.6	104.57	8.608	
16,150.0	9,789.1	15,052.3	8,984.7	50.9	49.1	-26.02	-6,117.6	135.2	900.2	794.9	105.31	8.548	
16,200.0	9,789.2	15,102.3	8,984.7	51.3	49.4	-26.02	-6,167.6	134.8	900.2	794.1	106.05	8.488	
16,245.0	9,789.2	15,147.3	8,984.7	51.6	49.8	-26.02	-6,212.6	134.4	900.2	793.5	106.72	8.435	
16,300.0	9,789.2	15,202.3	8,984.7	52.0	50.2	-26.02	-6,267.6	134.0	900.2	792.7	107.54	8.371	
16,340.0	9,789.2	15,242.3	8,984.8	52.3	50.5	-26.02	-6,307.6	133.6	900.2	792.1	108.13	8.325	
16,400.0	9,789.3	15,302.3	8,984.8	52.8	50.9	-26.02	-6,367.6	133.1	900.2	791.2	109.02	8.257	
16,435.0	9,789.3	15,337.3	8,984.8	53.0	51.2	-26.02	-6,402.6	132.8	900.2	790.7	109.54	8.218	
16,500.0	9,789.3	15,402.3	8,984.8	53.5	51.6	-26.02	-6,467.6	132.3	900.2	789.7	110.51	8.146	
16,530.0	9,789.3	15,432.3	8,984.8	53.7	51.9	-26.02	-6,497.6	132.1	900.2	789.3	110.95	8.113	
16,600.0	9,789.4	15,502.3	8,984.9	54.2	52.4	-26.02	-6,567.6	131.5	900.2	788.2	112.00	8.038	
16,625.0	9,789.4	15,527.3	8,984.9	54.4	52.6	-26.02	-6,592.6	131.3	900.2	787.8	112.37	8.011	
16,700.0	9,789.4	15,602.3	8,984.9	55.0	53.1	-26.02	-6,667.6	130.6	900.2	786.7	113.49	7.932	
16,720.0	9,789.4	15,622.3	8,984.9	55.1	53.3	-26.02	-6,687.6	130.5	900.2	786.4	113.79	7.912	
16,800.0	9,789.5	15,702.3	8,985.0	55.7	53.9	-26.02	-6,767.6	129.8	900.2	785.2	114.98	7.829	
16,815.0	9,789.5	15,717.3	8,985.0	55.8	54.0	-26.02	-6,782.6	129.7	900.2	785.0	115.20	7.814	
16,900.0	9,789.5	15,802.3	8,985.0	56.4	54.6	-26.02	-6,867.5	129.0	900.2	783.8	116.48	7.729	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-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
16,910.0	9,789.5	15,812.3	8,985.0	56.5	54.7	-26.02	-6,877.5	128.9	900.2	783.6	116.63	7.719
17,000.0	9,789.6	15,902.3	8,985.1	57.2	55.3	-26.02	-6,967.5	128.2	900.2	782.3	117.97	7.631
17,005.0	9,789.6	15,907.3	8,985.1	57.2	55.4	-26.02	-6,972.5	128.1	900.2	782.2	118.05	7.626
17,100.0	9,789.6	16,002.3	8,985.1	57.9	56.1	-26.02	-7,067.5	127.3	900.2	780.8	119.47	7.535
17,195.0	9,789.7	16,097.3	8,985.2	58.6	56.8	-26.02	-7,162.5	126.6	900.3	779.4	120.90	7.447
17,200.0	9,789.7	16,102.3	8,985.2	58.6	56.8	-26.02	-7,167.5	126.5	900.3	779.3	120.97	7.442
17,290.0	9,789.7	16,192.3	8,985.2	59.3	57.5	-26.02	-7,257.5	125.8	900.3	777.9	122.32	7.360
17,300.0	9,789.7	16,202.3	8,985.2	59.4	57.6	-26.02	-7,267.5	125.7	900.3	777.8	122.47	7.351
17,385.0	9,789.8	16,287.3	8,985.2	60.0	58.2	-26.02	-7,352.5	125.0	900.3	776.5	123.75	7.275
17,400.0	9,789.8	16,302.3	8,985.3	60.1	58.3	-26.02	-7,367.5	124.9	900.3	776.3	123.97	7.262
17,480.0	9,789.8	16,382.3	8,985.3	60.7	58.9	-26.02	-7,447.5	124.2	900.3	775.1	125.18	7.192
17,500.0	9,789.9	16,402.3	8,985.3	60.9	59.1	-26.02	-7,467.5	124.0	900.3	774.8	125.48	7.175
17,575.0	9,789.9	16,477.3	8,985.3	61.4	59.6	-26.02	-7,542.5	123.4	900.3	773.7	126.61	7.111
17,600.0	9,789.9	16,502.3	8,985.3	61.6	59.8	-26.02	-7,567.5	123.2	900.3	773.3	126.98	7.090
17,670.0	9,789.9	16,572.3	8,985.4	62.1	60.3	-26.02	-7,637.5	122.6	900.3	772.2	128.04	7.031
17,700.0	9,790.0	16,602.3	8,985.4	62.4	60.5	-26.02	-7,667.5	122.4	900.3	771.8	128.49	7.007
17,765.0	9,790.0	16,667.3	8,985.4	62.8	61.0	-26.02	-7,732.5	121.8	900.3	770.8	129.47	6.953
17,800.0	9,790.0	16,702.3	8,985.4	63.1	61.3	-26.02	-7,767.5	121.6	900.3	770.3	130.00	6.925
17,860.0	9,790.0	16,762.3	8,985.5	63.5	61.7	-26.02	-7,827.5	121.1	900.3	769.4	130.91	6.877
17,900.0	9,790.1	16,802.3	8,985.5	63.8	62.0	-26.02	-7,867.5	120.7	900.3	768.8	131.51	6.846
17,955.0	9,790.1	16,857.3	8,985.5	64.3	62.4	-26.02	-7,922.5	120.3	900.3	768.0	132.34	6.803
18,000.0	9,790.1	16,902.3	8,985.5	64.6	62.8	-26.02	-7,967.5	119.9	900.3	767.3	133.02	6.768
18,050.0	9,790.1	16,952.3	8,985.6	65.0	63.2	-26.02	-8,017.5	119.5	900.3	766.5	133.78	6.730
18,100.0	9,790.2	17,002.3	8,985.6	65.3	63.5	-26.02	-8,067.5	119.1	900.3	765.8	134.53	6.692
18,145.0	9,790.2	17,047.3	8,985.6	65.7	63.9	-26.02	-8,112.5	118.7	900.3	765.1	135.21	6.658
18,200.0	9,790.2	17,102.3	8,985.6	66.1	64.3	-26.02	-8,167.5	118.3	900.3	764.3	136.05	6.618
18,240.0	9,790.2	17,142.3	8,985.6	66.4	64.6	-26.02	-8,207.5	117.9	900.3	763.7	136.65	6.588
18,300.0	9,790.3	17,202.3	8,985.7	66.8	65.0	-26.02	-8,267.5	117.4	900.3	762.8	137.56	6.545
18,335.0	9,790.3	17,237.3	8,985.7	67.1	65.3	-26.02	-8,302.5	117.1	900.3	762.2	138.09	6.520
18,400.0	9,790.3	17,302.3	8,985.7	67.6	65.8	-26.02	-8,367.5	116.6	900.3	761.2	139.08	6.474
18,430.0	9,790.3	17,332.3	8,985.7	67.8	66.0	-26.02	-8,397.5	116.4	900.3	760.8	139.53	6.452
18,500.0	9,790.4	17,402.3	8,985.8	68.3	66.5	-26.02	-8,467.5	115.8	900.3	759.7	140.59	6.404
18,525.0	9,790.4	17,427.3	8,985.8	68.5	66.7	-26.02	-8,492.5	115.6	900.3	759.4	140.97	6.387
18,600.0	9,790.4	17,502.3	8,985.8	69.1	67.3	-26.01	-8,567.5	115.0	900.3	758.2	142.11	6.335
18,620.0	9,790.4	17,522.3	8,985.8	69.2	67.4	-26.01	-8,587.5	114.8	900.3	757.9	142.42	6.322
18,700.0	9,790.5	17,602.3	8,985.9	69.8	68.0	-26.01	-8,667.5	114.1	900.3	756.7	143.63	6.268
18,715.0	9,790.5	17,617.3	8,985.9	69.9	68.1	-26.01	-8,682.5	114.0	900.3	756.5	143.86	6.259
18,800.0	9,790.5	17,702.3	8,985.9	70.6	68.8	-26.01	-8,767.5	113.3	900.3	755.2	145.15	6.203
18,810.0	9,790.5	17,712.3	8,985.9	70.6	68.8	-26.01	-8,777.5	113.2	900.3	755.0	145.30	6.196
18,900.0	9,790.6	17,802.3	8,986.0	71.3	69.5	-26.01	-8,867.5	112.5	900.4	753.7	146.67	6.139
18,905.0	9,790.6	17,807.3	8,986.0	71.3	69.6	-26.01	-8,872.5	112.4	900.4	753.6	146.75	6.135
19,000.0	9,790.6	17,902.3	8,986.0	72.0	70.3	-26.01	-8,967.5	111.6	900.4	752.2	148.19	6.076
19,095.0	9,790.7	17,997.3	8,986.0	72.8	71.0	-26.01	-9,062.5	110.9	900.4	750.7	149.64	6.017
19,100.0	9,790.7	18,002.3	8,986.0	72.8	71.0	-26.01	-9,067.5	110.8	900.4	750.6	149.71	6.014
19,190.0	9,790.7	18,092.3	8,986.1	73.5	71.7	-26.01	-9,157.5	110.1	900.4	749.3	151.08	5.959
19,200.0	9,790.7	18,102.3	8,986.1	73.5	71.8	-26.01	-9,167.5	110.0	900.4	749.1	151.24	5.953
19,285.0	9,790.8	18,187.3	8,986.1	74.2	72.4	-26.01	-9,252.5	109.3	900.4	747.8	152.53	5.903
19,300.0	9,790.8	18,202.3	8,986.1	74.3	72.5	-26.01	-9,267.5	109.2	900.4	747.6	152.76	5.894
19,380.0	9,790.8	18,282.3	8,986.2	74.9	73.1	-26.01	-9,347.5	108.5	900.4	746.4	153.98	5.847
19,400.0	9,790.8	18,302.3	8,986.2	75.0	73.3	-26.01	-9,367.5	108.3	900.4	746.1	154.28	5.836
19,475.0	9,790.9	18,377.3	8,986.2	75.6	73.8	-26.01	-9,442.5	107.7	900.4	745.0	155.43	5.793

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
19,500.0	9,790.9	18,402.3	8,986.2	75.8	74.0	-26.01	-9,467.5	107.5	900.4	744.6	155.81	5.779
19,570.0	9,790.9	18,472.3	8,986.3	76.3	74.6	-26.01	-9,537.5	106.9	900.4	743.5	156.88	5.739
19,600.0	9,791.0	18,502.3	8,986.3	76.5	74.8	-26.01	-9,567.5	106.7	900.4	743.1	157.34	5.723
19,665.0	9,791.0	18,567.3	8,986.3	77.0	75.3	-26.01	-9,632.5	106.2	900.4	742.1	158.33	5.687
19,700.0	9,791.0	18,602.3	8,986.3	77.3	75.5	-26.01	-9,667.5	105.9	900.4	741.5	158.86	5.668
19,760.0	9,791.0	18,662.3	8,986.4	77.7	76.0	-26.01	-9,727.5	105.4	900.4	740.6	159.78	5.635
19,800.0	9,791.1	18,702.3	8,986.4	78.0	76.3	-26.01	-9,767.4	105.0	900.4	740.0	160.39	5.614
19,855.0	9,791.1	18,757.3	8,986.4	78.5	76.7	-26.01	-9,822.4	104.6	900.4	739.2	161.23	5.585
19,900.0	9,791.1	18,802.3	8,986.4	78.8	77.0	-26.01	-9,867.4	104.2	900.4	738.5	161.92	5.561
19,950.0	9,791.1	18,852.3	8,986.4	79.2	77.4	-26.01	-9,917.4	103.8	900.4	737.7	162.68	5.535
20,000.0	9,791.2	18,902.3	8,986.5	79.5	77.8	-26.01	-9,967.4	103.4	900.4	737.0	163.45	5.509
20,045.0	9,791.2	18,947.3	8,986.5	79.9	78.1	-26.01	-10,012.4	103.0	900.4	736.3	164.14	5.486
20,100.0	9,791.2	19,002.3	8,986.5	80.3	78.5	-26.01	-10,067.4	102.6	900.4	735.4	164.98	5.458
20,140.0	9,791.2	19,042.3	8,986.5	80.6	78.8	-26.01	-10,107.4	102.2	900.4	734.8	165.59	5.438
20,200.0	9,791.3	19,102.3	8,986.6	81.0	79.3	-26.01	-10,167.4	101.7	900.4	733.9	166.51	5.408
20,235.0	9,791.3	19,137.3	8,986.6	81.3	79.6	-26.01	-10,202.4	101.4	900.4	733.4	167.04	5.390
20,300.0	9,791.3	19,202.3	8,986.6	81.8	80.0	-26.01	-10,267.4	100.9	900.4	732.4	168.04	5.359
20,330.0	9,791.3	19,232.3	8,986.6	82.0	80.3	-26.01	-10,297.4	100.7	900.4	731.9	168.50	5.344
20,400.0	9,791.4	19,302.3	8,986.7	82.6	80.8	-26.01	-10,367.4	100.1	900.4	730.9	169.57	5.310
20,425.0	9,791.4	19,327.3	8,986.7	82.7	81.0	-26.01	-10,392.4	99.9	900.4	730.5	169.95	5.298
20,500.0	9,791.4	19,402.3	8,986.7	83.3	81.6	-26.01	-10,467.4	99.3	900.4	729.3	171.10	5.263
20,520.0	9,791.4	19,422.3	8,986.7	83.5	81.7	-26.01	-10,487.4	99.1	900.4	729.0	171.41	5.253
20,600.0	9,791.5	19,502.3	8,986.7	84.1	82.3	-26.01	-10,567.4	98.4	900.5	727.8	172.63	5.216
20,615.0	9,791.5	19,517.3	8,986.8	84.2	82.4	-26.01	-10,582.4	98.3	900.5	727.6	172.86	5.209
20,700.0	9,791.5	19,602.3	8,986.8	84.8	83.1	-26.01	-10,667.4	97.6	900.5	726.3	174.17	5.170
20,710.0	9,791.5	19,612.3	8,986.8	84.9	83.1	-26.01	-10,677.4	97.5	900.5	726.1	174.32	5.166
20,800.0	9,791.6	19,702.3	8,986.8	85.6	83.8	-26.01	-10,767.4	96.8	900.5	724.8	175.70	5.125
20,805.0	9,791.6	19,707.3	8,986.8	85.6	83.9	-26.01	-10,772.4	96.7	900.5	724.7	175.78	5.123
20,900.0	9,791.6	19,802.3	8,986.9	86.3	84.6	-26.01	-10,867.4	96.0	900.5	723.2	177.23	5.081
20,995.0	9,791.7	19,897.3	8,986.9	87.0	85.3	-26.01	-10,962.4	95.2	900.5	721.8	178.69	5.039
21,000.0	9,791.7	19,902.3	8,986.9	87.1	85.3	-26.01	-10,967.4	95.1	900.5	721.7	178.77	5.037
21,090.0	9,791.7	19,992.3	8,987.0	87.7	86.0	-26.01	-11,057.4	94.4	900.5	720.3	180.15	4.999
21,100.0	9,791.7	20,002.3	8,987.0	87.8	86.1	-26.01	-11,067.4	94.3	900.5	720.2	180.30	4.994
21,185.0	9,791.8	20,087.3	8,987.0	88.5	86.7	-26.01	-11,152.4	93.6	900.5	718.9	181.61	4.958
21,200.0	9,791.8	20,102.3	8,987.0	88.6	86.8	-26.01	-11,167.4	93.5	900.5	718.6	181.84	4.952
21,280.0	9,791.8	20,182.3	8,987.1	89.2	87.4	-26.01	-11,247.4	92.8	900.5	717.4	183.07	4.919
21,300.0	9,791.8	20,202.3	8,987.1	89.3	87.6	-26.01	-11,267.4	92.6	900.5	717.1	183.37	4.911
21,375.0	9,791.9	20,277.3	8,987.1	89.9	88.2	-26.01	-11,342.4	92.0	900.5	716.0	184.53	4.880
21,400.0	9,791.9	20,302.3	8,987.1	90.1	88.3	-26.01	-11,367.4	91.8	900.5	715.6	184.91	4.870
21,470.0	9,791.9	20,372.3	8,987.2	90.6	88.9	-26.01	-11,437.4	91.2	900.5	714.5	185.99	4.842
21,500.0	9,791.9	20,402.3	8,987.2	90.8	89.1	-26.01	-11,467.4	91.0	900.5	714.1	186.45	4.830
21,565.0	9,792.0	20,467.3	8,987.2	91.3	89.6	-26.01	-11,532.4	90.5	900.5	713.1	187.45	4.804
21,600.0	9,792.0	20,502.3	8,987.2	91.6	89.9	-26.01	-11,567.4	90.2	900.5	712.5	187.99	4.790
21,660.0	9,792.0	20,562.3	8,987.2	92.0	90.3	-26.01	-11,627.4	89.7	900.5	711.6	188.91	4.767
21,700.0	9,792.1	20,602.3	8,987.3	92.3	90.6	-26.01	-11,667.4	89.3	900.5	711.0	189.52	4.751
21,755.0	9,792.1	20,657.3	8,987.3	92.8	91.0	-26.01	-11,722.4	88.9	900.5	710.2	190.37	4.730
21,800.0	9,792.1	20,702.3	8,987.3	93.1	91.4	-26.01	-11,767.4	88.5	900.5	709.5	191.06	4.713
21,850.0	9,792.1	20,752.3	8,987.3	93.5	91.7	-26.01	-11,817.4	88.1	900.5	708.7	191.83	4.694
21,900.0	9,792.2	20,802.3	8,987.4	93.9	92.1	-26.01	-11,867.4	87.7	900.5	707.9	192.60	4.676
21,945.0	9,792.2	20,847.3	8,987.4	94.2	92.5	-26.01	-11,912.4	87.3	900.5	707.2	193.29	4.659
22,000.0	9,792.2	20,902.3	8,987.4	94.6	92.9	-26.01	-11,967.4	86.9	900.5	706.4	194.14	4.639

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-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	
22,040.0	9,792.2	20,942.3	8,987.4	94.9	93.2	-26.01	-12,007.4	86.5	900.5	705.8	194.75	4.624		
22,100.0	9,792.3	21,002.3	8,987.5	95.4	93.6	-26.01	-12,067.4	86.0	900.5	704.9	195.68	4.602		
22,135.0	9,792.3	21,037.3	8,987.5	95.6	93.9	-26.01	-12,102.4	85.8	900.5	704.3	196.22	4.590		
22,200.0	9,792.3	21,102.3	8,987.5	96.1	94.4	-26.01	-12,167.4	85.2	900.5	703.3	197.22	4.566		
22,230.0	9,792.3	21,132.3	8,987.5	96.3	94.6	-26.01	-12,197.4	85.0	900.5	702.9	197.68	4.556		
22,300.0	9,792.4	21,202.3	8,987.5	96.9	95.2	-26.01	-12,267.4	84.4	900.6	701.8	198.76	4.531		
22,325.0	9,792.4	21,227.3	8,987.6	97.1	95.3	-26.01	-12,292.4	84.2	900.6	701.4	199.14	4.522		
22,400.0	9,792.4	21,302.3	8,987.6	97.6	95.9	-26.01	-12,367.4	83.6	900.6	700.3	200.30	4.496		
22,420.0	9,792.4	21,322.3	8,987.6	97.8	96.1	-26.01	-12,387.4	83.4	900.6	700.0	200.61	4.489		
22,500.0	9,792.5	21,402.3	8,987.6	98.4	96.7	-26.01	-12,467.4	82.7	900.6	698.7	201.84	4.462		
22,515.0	9,792.5	21,417.3	8,987.6	98.5	96.8	-26.01	-12,482.4	82.6	900.6	698.5	202.07	4.457		
22,600.0	9,792.5	21,502.3	8,987.7	99.1	97.4	-26.01	-12,567.4	81.9	900.6	697.2	203.38	4.428		
22,610.0	9,792.5	21,512.3	8,987.7	99.2	97.5	-26.01	-12,577.4	81.8	900.6	697.0	203.53	4.425		
22,700.0	9,792.6	21,602.3	8,987.7	99.9	98.2	-26.01	-12,667.4	81.1	900.6	695.7	204.92	4.395		
22,705.0	9,792.6	21,607.3	8,987.7	99.9	98.2	-26.01	-12,672.3	81.0	900.6	695.6	205.00	4.393		
22,800.0	9,792.6	21,702.3	8,987.8	100.7	98.9	-26.01	-12,767.3	80.3	900.6	694.1	206.46	4.362		
22,895.0	9,792.7	21,797.3	8,987.8	101.4	99.7	-26.01	-12,862.3	79.5	900.6	692.7	207.93	4.331		
22,900.0	9,792.7	21,802.3	8,987.8	101.4	99.7	-26.01	-12,867.3	79.4	900.6	692.6	208.00	4.330		
22,990.0	9,792.7	21,892.3	8,987.9	102.1	100.4	-26.01	-12,957.3	78.7	900.6	691.2	209.39	4.301		
23,000.0	9,792.7	21,902.3	8,987.9	102.2	100.5	-26.01	-12,967.3	78.6	900.6	691.0	209.55	4.298		
23,085.0	9,792.8	21,987.3	8,987.9	102.8	101.1	-26.01	-13,052.3	77.9	900.6	689.7	210.86	4.271		
23,100.0	9,792.8	22,002.3	8,987.9	102.9	101.2	-26.01	-13,067.3	77.8	900.6	689.5	211.09	4.266		
23,180.0	9,792.8	22,082.3	8,988.0	103.5	101.8	-26.01	-13,147.3	77.1	900.6	688.3	212.32	4.242		
23,200.0	9,792.8	22,102.3	8,988.0	103.7	102.0	-26.01	-13,167.3	77.0	900.6	688.0	212.63	4.236		
23,275.0	9,792.9	22,177.3	8,988.0	104.2	102.5	-26.01	-13,242.3	76.3	900.6	686.8	213.79	4.213		
23,300.0	9,792.9	22,202.3	8,988.0	104.4	102.7	-26.01	-13,267.3	76.1	900.6	686.4	214.18	4.205		
23,370.0	9,792.9	22,272.3	8,988.0	105.0	103.3	-26.01	-13,337.3	75.5	900.6	685.4	215.26	4.184		
23,400.0	9,792.9	22,302.3	8,988.1	105.2	103.5	-26.01	-13,367.3	75.3	900.6	684.9	215.72	4.175		
23,465.0	9,793.0	22,367.3	8,988.1	105.7	104.0	-26.01	-13,432.3	74.8	900.6	683.9	216.72	4.156		
23,500.0	9,793.0	22,402.3	8,988.1	105.9	104.2	-26.01	-13,467.3	74.5	900.6	683.4	217.26	4.145		
23,560.0	9,793.0	22,462.3	8,988.1	106.4	104.7	-26.01	-13,527.3	74.0	900.6	682.4	218.19	4.128		
23,600.0	9,793.0	22,502.3	8,988.2	106.7	105.0	-26.01	-13,567.3	73.6	900.6	681.8	218.81	4.116		
23,655.0	9,793.1	22,557.3	8,988.2	107.1	105.4	-26.01	-13,622.3	73.2	900.6	681.0	219.66	4.100		
23,700.0	9,793.1	22,602.3	8,988.2	107.5	105.8	-26.01	-13,667.3	72.8	900.6	680.3	220.35	4.087		
23,750.0	9,793.1	22,652.3	8,988.2	107.8	106.1	-26.01	-13,717.3	72.4	900.6	679.5	221.12	4.073		
23,800.0	9,793.2	22,702.3	8,988.2	108.2	106.5	-26.01	-13,767.3	72.0	900.6	678.7	221.90	4.059		
23,845.0	9,793.2	22,747.3	8,988.3	108.6	106.9	-26.01	-13,812.3	71.6	900.6	678.1	222.59	4.046		
23,900.0	9,793.2	22,802.3	8,988.3	109.0	107.3	-26.01	-13,867.3	71.2	900.6	677.2	223.44	4.031		
23,940.0	9,793.2	22,842.3	8,988.3	109.3	107.6	-26.01	-13,907.3	70.8	900.6	676.6	224.06	4.020		
24,000.0	9,793.3	22,902.3	8,988.3	109.7	108.0	-26.01	-13,967.3	70.3	900.7	675.7	224.99	4.003		
24,035.0	9,793.3	22,937.3	8,988.4	110.0	108.3	-26.01	-14,002.3	70.1	900.7	675.1	225.53	3.994		
24,100.0	9,793.3	23,002.3	8,988.4	110.5	108.8	-26.01	-14,067.3	69.5	900.7	674.1	226.53	3.976		
24,130.0	9,793.3	23,032.3	8,988.4	110.7	109.0	-26.01	-14,097.3	69.3	900.7	673.7	226.99	3.968		
24,200.0	9,793.4	23,102.3	8,988.4	111.2	109.5	-26.01	-14,167.3	68.7	900.7	672.6	228.08	3.949		
24,225.0	9,793.4	23,127.3	8,988.4	111.4	109.7	-26.01	-14,192.3	68.5	900.7	672.2	228.46	3.942		
24,300.0	9,793.4	23,202.3	8,988.5	112.0	110.3	-26.01	-14,267.3	67.9	900.7	671.0	229.62	3.922		
24,320.0	9,793.4	23,222.3	8,988.5	112.2	110.5	-26.01	-14,287.3	67.7	900.7	670.7	229.93	3.917		
24,400.0	9,793.5	23,302.3	8,988.5	112.8	111.1	-26.01	-14,367.3	67.0	900.7	669.5	231.17	3.896		
24,415.0	9,793.5	23,317.3	8,988.5	112.9	111.2	-26.01	-14,382.3	66.9	900.7	669.3	231.40	3.892		
24,500.0	9,793.5	23,402.3	8,988.6	113.5	111.8	-26.01	-14,467.3	66.2	900.7	668.0	232.71	3.870		
24,510.0	9,793.5	23,412.3	8,988.6	113.6	111.9	-26.01	-14,477.3	66.1	900.7	667.8	232.87	3.868		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
24,600.0	9,793.6	23,502.3	8,988.6	114.3	112.6	-26.01	-14,567.3	65.4	900.7	666.4	234.26	3.845
24,605.0	9,793.6	23,507.3	8,988.6	114.3	112.6	-26.01	-14,572.3	65.3	900.7	666.3	234.34	3.844
24,700.0	9,793.6	23,602.3	8,988.7	115.0	113.3	-26.01	-14,667.3	64.6	900.7	664.9	235.81	3.820
24,795.0	9,793.7	23,697.3	8,988.7	115.8	114.1	-26.01	-14,762.3	63.8	900.7	663.4	237.28	3.796
24,800.0	9,793.7	23,702.3	8,988.7	115.8	114.1	-26.01	-14,767.3	63.7	900.7	663.3	237.35	3.795
24,890.0	9,793.7	23,792.3	8,988.8	116.5	114.8	-26.01	-14,857.3	63.0	900.7	662.0	238.75	3.773
24,900.0	9,793.7	23,802.3	8,988.8	116.6	114.9	-26.01	-14,867.3	62.9	900.7	661.8	238.90	3.770
24,985.0	9,793.8	23,887.3	8,988.8	117.2	115.5	-26.01	-14,952.3	62.2	900.7	660.5	240.22	3.750
25,000.0	9,793.8	23,902.3	8,988.8	117.3	115.6	-26.01	-14,967.3	62.1	900.7	660.3	240.45	3.746
25,080.0	9,793.8	23,982.3	8,988.8	117.9	116.2	-26.01	-15,047.3	61.4	900.7	659.0	241.69	3.727
25,100.0	9,793.8	24,002.3	8,988.9	118.1	116.4	-26.01	-15,067.3	61.3	900.7	658.7	242.00	3.722
25,175.0	9,793.9	24,077.3	8,988.9	118.6	116.9	-26.01	-15,142.3	60.6	900.7	657.6	243.16	3.704
25,200.0	9,793.9	24,102.3	8,988.9	118.8	117.1	-26.01	-15,167.3	60.4	900.7	657.2	243.54	3.698
25,270.0	9,793.9	24,172.3	8,988.9	119.4	117.7	-26.01	-15,237.3	59.9	900.7	656.1	244.63	3.682
25,278.2	9,793.9	24,180.5	8,988.9	119.4	117.7	-26.01	-15,245.4	59.8	900.7	656.0	244.75	3.680
25,300.0	9,793.9	24,202.3	8,988.9	119.6	117.9	-26.01	-15,267.3	59.6	900.7	655.6	245.09	3.675
25,365.0	9,794.0	24,267.3	8,989.0	120.1	118.4	-26.01	-15,332.3	59.1	900.7	654.6	246.10	3.660
25,408.3	9,794.0	24,310.6	8,989.0	120.4	118.7	-26.01	-15,375.5	58.7	900.7	654.0	246.77	3.650 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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	4.6	4.6	3.0	3.0	167.77	-149.5	32.4	153.0				
95.0	95.0	99.6	99.6	3.0	3.0	167.77	-149.5	32.4	153.0	146.9	6.04	25.334	
100.0	100.0	104.6	104.6	3.0	3.0	167.77	-149.5	32.4	153.0	146.9	6.04	25.307	
190.0	190.0	194.6	194.6	3.1	3.1	167.77	-149.5	32.4	153.0	146.7	6.27	24.413	
200.0	200.0	204.6	204.6	3.1	3.2	167.77	-149.5	32.4	153.0	146.7	6.30	24.289	
285.0	285.0	289.6	289.6	3.3	3.3	167.77	-149.5	32.4	153.0	146.5	6.51	23.509	
300.0	300.0	304.6	304.6	3.3	3.3	167.77	-149.5	32.4	153.0	146.4	6.55	23.363	
380.0	380.0	384.6	384.6	3.4	3.4	167.77	-149.5	32.4	153.0	146.2	6.74	22.686	
400.0	400.0	404.6	404.6	3.4	3.4	167.77	-149.5	32.4	153.0	146.2	6.80	22.512	
475.0	475.0	479.6	479.6	3.5	3.5	167.77	-149.5	32.4	153.0	146.0	6.98	21.925	
500.0	500.0	504.6	504.6	3.5	3.5	167.77	-149.5	32.4	153.0	145.9	7.04	21.728	
570.0	570.0	574.6	574.6	3.6	3.6	167.77	-149.5	32.4	153.0	145.8	7.21	21.219	
600.0	600.0	604.6	604.6	3.6	3.6	167.77	-149.5	32.4	153.0	145.7	7.28	21.001	
665.0	665.0	669.6	669.6	3.7	3.7	167.77	-149.5	32.4	153.0	145.5	7.44	20.561	
700.0	700.0	704.6	704.6	3.8	3.8	167.77	-149.5	32.4	153.0	145.4	7.53	20.325	
760.0	760.0	764.6	764.6	3.8	3.8	167.77	-149.5	32.4	153.0	145.3	7.67	19.946	
800.0	800.0	804.6	804.6	3.9	3.9	167.77	-149.5	32.4	153.0	145.2	7.77	19.695	
855.0	855.0	859.6	859.6	4.0	4.0	167.77	-149.5	32.4	153.0	145.1	7.90	19.370	
900.0	900.0	904.6	904.6	4.0	4.0	167.77	-149.5	32.4	153.0	145.0	8.01	19.106	
950.0	950.0	954.6	954.6	4.1	4.1	167.77	-149.5	32.4	153.0	144.8	8.12	18.828	
1,000.0	1,000.0	1,004.6	1,004.6	4.1	4.1	167.77	-149.5	32.4	153.0	144.7	8.24	18.554	
1,045.0	1,045.0	1,049.6	1,049.6	4.2	4.2	167.77	-149.5	32.4	153.0	144.6	8.35	18.319	
1,100.0	1,100.0	1,104.6	1,104.6	4.2	4.3	167.77	-149.5	32.4	153.0	144.5	8.48	18.035	
1,140.0	1,140.0	1,144.6	1,144.6	4.3	4.3	167.77	-149.5	32.4	153.0	144.4	8.58	17.838	
1,200.0	1,200.0	1,204.6	1,204.6	4.4	4.4	167.77	-149.5	32.4	153.0	144.3	8.72	17.546	
1,235.0	1,235.0	1,239.6	1,239.6	4.4	4.4	167.77	-149.5	32.4	153.0	144.2	8.80	17.383	
1,300.0	1,300.0	1,304.6	1,304.6	4.5	4.5	167.77	-149.5	32.4	153.0	144.0	8.95	17.085	
1,330.0	1,330.0	1,334.6	1,334.6	4.5	4.5	167.77	-149.5	32.4	153.0	143.9	9.02	16.953	
1,400.0	1,400.0	1,404.6	1,404.6	4.6	4.6	167.77	-149.5	32.4	153.0	143.8	9.19	16.649	
1,425.0	1,425.0	1,429.6	1,429.6	4.6	4.6	167.77	-149.5	32.4	153.0	143.7	9.25	16.545	
1,500.0	1,500.0	1,504.8	1,504.8	4.7	4.7	167.77	-149.5	32.4	153.0	143.5	9.42	16.233	
1,520.0	1,520.0	1,525.7	1,525.7	4.8	4.8	-167.75	-149.4	32.3	152.9	143.5	9.49	16.114	
1,537.3	1,537.3	1,543.8	1,543.8	4.8	4.8	-167.72	-149.3	32.2	152.9	143.4	9.55	16.009 CC	
1,600.0	1,600.0	1,609.5	1,609.4	4.9	4.9	-167.48	-148.0	30.9	153.0	143.2	9.80	15.615	
1,615.0	1,615.0	1,625.1	1,625.1	4.9	4.9	-167.39	-147.6	30.4	153.1	143.2	9.87	15.504	
1,700.0	1,699.8	1,714.0	1,713.8	5.2	5.2	-166.69	-143.9	26.7	153.5	143.2	10.29	14.913 ES	
1,710.0	1,709.8	1,724.5	1,724.3	5.2	5.2	-166.58	-143.4	26.1	153.5	143.2	10.34	14.847	
1,800.0	1,799.5	1,818.6	1,817.9	5.4	5.4	-165.41	-137.2	19.7	154.4	143.6	10.79	14.299	
1,805.0	1,804.4	1,823.8	1,823.1	5.5	5.4	-165.33	-136.8	19.3	154.4	143.6	10.82	14.270	
1,900.0	1,898.7	1,923.0	1,921.4	5.7	5.7	-163.66	-127.8	10.0	155.8	144.5	11.28	13.806	
1,995.0	1,992.5	2,019.0	2,016.3	6.0	5.9	-161.85	-117.5	-0.7	158.4	146.7	11.70	13.543	
2,000.0	1,997.5	2,024.0	2,021.2	6.1	5.9	-161.77	-116.9	-1.3	158.6	146.9	11.72	13.532	
2,050.0	2,046.6	2,073.8	2,070.4	6.2	6.0	-160.99	-111.5	-6.9	161.3	149.4	11.92	13.535	
2,090.0	2,085.9	2,113.7	2,109.9	6.2	6.1	-160.44	-107.2	-11.4	163.8	151.7	12.07	13.563	
2,100.0	2,095.7	2,123.7	2,119.7	6.3	6.2	-160.30	-106.1	-12.5	164.4	152.3	12.11	13.569	
2,185.0	2,179.1	2,208.5	2,203.5	6.5	6.4	-159.19	-96.9	-22.0	169.7	157.2	12.52	13.550	
2,200.0	2,193.9	2,223.5	2,218.2	6.5	6.5	-159.01	-95.2	-23.7	170.6	158.0	12.60	13.546	
2,280.0	2,272.4	2,303.2	2,297.0	6.8	6.7	-158.04	-86.6	-32.7	175.7	162.7	13.00	13.518	
2,300.0	2,292.0	2,323.2	2,316.7	6.8	6.8	-157.80	-84.4	-34.9	177.0	163.9	13.10	13.510	
2,375.0	2,365.7	2,398.0	2,390.6	7.1	7.0	-156.95	-76.3	-43.3	181.8	168.3	13.49	13.477	
2,400.0	2,390.2	2,422.9	2,415.2	7.2	7.1	-156.68	-73.5	-46.1	183.4	169.8	13.62	13.467	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,470.0	2,458.9	2,492.7	2,484.2	7.4	7.3	-155.94	-66.0	-54.0	188.0	174.0	13.99	13.433	
2,500.0	2,488.4	2,522.6	2,513.7	7.5	7.4	-155.64	-62.7	-57.4	189.9	175.8	14.15	13.419	
2,565.0	2,552.2	2,587.5	2,577.8	7.7	7.6	-154.99	-55.6	-64.7	194.2	179.6	14.50	13.386	
2,600.0	2,586.5	2,622.4	2,612.2	7.9	7.7	-154.66	-51.8	-68.6	196.5	181.8	14.69	13.369	
2,660.0	2,645.4	2,682.2	2,671.3	8.1	8.0	-154.11	-45.3	-75.3	200.4	185.4	15.02	13.339	
2,700.0	2,684.7	2,722.1	2,710.8	8.2	8.1	-153.75	-41.0	-79.8	203.1	187.8	15.24	13.320	
2,755.0	2,738.7	2,777.0	2,764.9	8.4	8.3	-153.27	-35.0	-86.0	206.7	191.2	15.55	13.293	
2,800.0	2,782.8	2,821.8	2,809.3	8.6	8.5	-152.89	-30.2	-91.0	209.7	193.9	15.80	13.272	
2,850.0	2,831.9	2,871.7	2,858.5	8.8	8.6	-152.49	-24.7	-96.6	213.0	197.0	16.08	13.249	
2,900.0	2,881.0	2,921.6	2,907.8	9.0	8.8	-152.09	-19.3	-102.2	216.4	200.0	16.36	13.227	
2,945.0	2,925.2	2,966.5	2,952.1	9.1	9.0	-151.75	-14.4	-107.3	219.4	202.8	16.61	13.207	
3,000.0	2,979.2	3,021.3	3,006.3	9.4	9.2	-151.34	-8.5	-113.5	223.1	206.2	16.92	13.184	
3,040.0	3,018.4	3,061.2	3,045.7	9.5	9.4	-151.05	-4.1	-117.9	225.8	208.7	17.15	13.167	
3,100.0	3,077.3	3,121.0	3,104.8	9.7	9.6	-150.63	2.4	-124.7	229.9	212.4	17.49	13.144	
3,135.0	3,111.7	3,155.9	3,139.2	9.9	9.7	-150.39	6.2	-128.6	232.3	214.6	17.69	13.131	
3,200.0	3,175.5	3,220.8	3,203.3	10.1	10.0	-149.96	13.2	-135.9	236.7	218.6	18.06	13.107	
3,230.0	3,205.0	3,250.7	3,232.8	10.3	10.1	-149.77	16.5	-139.3	238.7	220.5	18.23	13.097	
3,300.0	3,273.7	3,320.5	3,301.8	10.6	10.4	-149.33	24.1	-147.1	243.5	224.9	18.63	13.073	
3,325.0	3,298.2	3,345.4	3,326.4	10.7	10.5	-149.17	26.8	-149.9	245.2	226.5	18.77	13.065	
3,400.0	3,371.8	3,420.2	3,400.3	11.0	10.8	-148.73	34.9	-158.3	250.4	231.2	19.20	13.042	
3,420.0	3,391.5	3,440.2	3,420.0	11.0	10.8	-148.61	37.1	-160.6	251.8	232.4	19.31	13.036	
3,500.0	3,470.0	3,520.0	3,498.8	11.4	11.2	-148.16	45.8	-169.5	257.3	237.5	19.77	13.014	
3,515.0	3,484.7	3,534.9	3,513.6	11.4	11.2	-148.08	47.4	-171.2	258.3	238.4	19.85	13.010	
3,600.0	3,568.2	3,619.7	3,597.3	11.8	11.6	-147.63	56.6	-180.8	264.2	243.8	20.34	12.989	
3,610.0	3,578.0	3,629.7	3,607.1	11.8	11.6	-147.58	57.7	-181.9	264.9	244.5	20.40	12.986	
3,700.0	3,666.3	3,719.4	3,695.8	12.2	12.0	-147.12	67.5	-192.0	271.1	250.2	20.91	12.966	
3,705.0	3,671.2	3,724.4	3,700.7	12.2	12.0	-147.10	68.0	-192.5	271.5	250.5	20.94	12.965	
3,800.0	3,764.5	3,819.2	3,794.3	12.6	12.4	-146.64	78.3	-203.2	278.1	256.6	21.48	12.945	
3,895.0	3,857.7	3,913.9	3,887.9	13.1	12.8	-146.20	88.6	-213.9	284.7	262.7	22.02	12.927	
3,900.0	3,862.6	3,918.9	3,892.8	13.1	12.8	-146.18	89.2	-214.4	285.0	263.0	22.05	12.927	
3,990.0	3,951.0	4,008.6	3,981.4	13.5	13.2	-145.78	98.9	-224.5	291.3	268.7	22.56	12.912	
4,000.0	3,960.8	4,018.6	3,991.3	13.5	13.2	-145.74	100.0	-225.6	292.0	269.4	22.62	12.910	
4,085.0	4,044.2	4,103.4	4,075.0	13.9	13.6	-145.38	109.2	-235.2	298.0	274.9	23.10	12.898	
4,097.4	4,056.4	4,115.8	4,087.2	13.9	13.6	-145.33	110.6	-236.6	298.8	275.7	23.17	12.896	
4,100.0	4,059.0	4,118.3	4,089.8	13.9	13.6	-145.33	110.9	-236.9	299.0	275.8	23.19	12.896	
4,180.0	4,137.7	4,198.2	4,168.6	14.3	14.0	-144.93	119.5	-245.8	303.7	280.0	23.64	12.846	
4,200.0	4,157.5	4,217.9	4,188.1	14.4	14.0	-144.80	121.7	-248.0	304.5	280.8	23.74	12.827	
4,275.0	4,231.7	4,290.6	4,260.1	14.7	14.3	-144.25	129.2	-255.8	307.2	283.1	24.09	12.750	
4,300.0	4,256.5	4,314.9	4,284.1	14.8	14.4	-144.06	131.6	-258.3	307.8	283.6	24.20	12.718	
4,370.0	4,326.1	4,382.9	4,351.4	15.1	14.7	-143.47	137.8	-264.7	309.0	284.5	24.49	12.618	
4,400.0	4,356.0	4,412.0	4,380.3	15.3	14.8	-143.20	140.3	-267.3	309.2	284.6	24.60	12.568	
4,465.0	4,420.8	4,475.1	4,443.0	15.5	15.1	-142.57	145.4	-272.6	309.2	284.4	24.82	12.457	
4,500.0	4,455.7	4,509.1	4,476.8	15.6	15.2	-142.20	148.0	-275.2	308.8	283.9	24.93	12.390	
4,560.0	4,515.7	4,567.4	4,534.8	15.8	15.4	-141.53	152.0	-279.4	307.7	282.7	25.06	12.278	
4,600.0	4,555.6	4,606.3	4,573.5	16.0	15.6	-141.05	154.5	-281.9	306.7	281.5	25.15	12.194	
4,647.4	4,603.0	4,652.3	4,619.4	16.0	15.8	-164.90	157.1	-284.7	305.0	279.9	25.16	12.124	
4,655.0	4,610.6	4,659.7	4,626.8	16.0	15.8	-164.80	157.5	-285.1	304.7	279.6	25.15	12.114	
4,700.0	4,655.6	4,703.5	4,670.4	16.1	15.9	-164.26	159.8	-287.5	303.1	278.0	25.13	12.061	
4,750.0	4,705.6	4,752.2	4,719.0	16.1	16.1	-163.72	162.1	-289.8	301.6	276.4	25.13	12.000	
4,800.0	4,755.6	4,800.0	4,766.8	16.1	16.3	-163.25	164.0	-291.8	300.2	275.1	25.13	11.946	
4,845.0	4,800.6	4,844.8	4,811.5	16.1	16.4	-162.87	165.6	-293.4	299.2	274.0	25.15	11.895	

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft		
Offset		Semi Major Axis		Offset Wellbore Centre		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,900.0	4,855.6	4,898.5	4,865.1	16.2	16.6	-162.49	167.1	-295.0	298.2	273.0	25.19	11.838			
4,940.0	4,895.6	4,937.5	4,904.2	16.2	16.7	-162.26	168.0	-295.9	297.6	272.3	25.22	11.800			
5,000.0	4,955.6	4,996.2	4,962.8	16.2	16.9	-162.01	169.0	-297.0	296.9	271.6	25.28	11.744			
5,035.0	4,990.6	5,030.4	4,997.0	16.2	17.0	-161.91	169.4	-297.4	296.6	271.3	25.32	11.717			
5,100.0	5,055.6	5,094.0	5,060.6	16.3	17.1	-161.82	169.8	-297.8	296.4	271.0	25.41	11.667			
5,121.1	5,076.7	5,114.7	5,081.3	16.3	17.1	-161.82	169.8	-297.8	296.4	271.0	25.44	11.652			
5,130.0	5,085.6	5,123.6	5,090.2	16.3	17.1	-161.82	169.8	-297.8	296.4	271.0	25.45	11.646			
5,200.0	5,155.6	5,193.6	5,160.2	16.3	17.1	-161.82	169.8	-297.8	296.4	270.9	25.55	11.601			
5,225.0	5,180.6	5,218.6	5,185.2	16.4	17.1	-161.82	169.8	-297.8	296.4	270.8	25.59	11.585			
5,300.0	5,255.6	5,293.6	5,260.2	16.4	17.2	-161.82	169.8	-297.8	296.4	270.7	25.70	11.535			
5,320.0	5,275.6	5,313.6	5,280.2	16.4	17.2	-161.82	169.8	-297.8	296.4	270.7	25.73	11.521			
5,400.0	5,355.6	5,393.6	5,360.2	16.5	17.2	-161.82	169.8	-297.8	296.4	270.6	25.84	11.469			
5,415.0	5,370.6	5,408.6	5,375.2	16.5	17.2	-161.82	169.8	-297.8	296.4	270.5	25.87	11.459			
5,500.0	5,455.6	5,493.6	5,460.2	16.5	17.3	-161.82	169.8	-297.8	296.4	270.4	25.99	11.403			
5,510.0	5,465.6	5,503.6	5,470.2	16.5	17.3	-161.82	169.8	-297.8	296.4	270.4	26.01	11.397			
5,600.0	5,555.6	5,593.6	5,560.2	16.6	17.3	-161.82	169.8	-297.8	296.4	270.3	26.14	11.338			
5,605.0	5,560.6	5,598.6	5,565.2	16.6	17.3	-161.82	169.8	-297.8	296.4	270.3	26.15	11.335			
5,700.0	5,655.6	5,693.6	5,660.2	16.6	17.4	-161.82	169.8	-297.8	296.4	270.1	26.29	11.274			
5,795.0	5,750.6	5,788.6	5,755.2	16.7	17.4	-161.82	169.8	-297.8	296.4	270.0	26.43	11.214			
5,800.0	5,755.6	5,793.6	5,760.2	16.7	17.4	-161.82	169.8	-297.8	296.4	270.0	26.44	11.211			
5,890.0	5,845.6	5,883.6	5,850.2	16.7	17.5	-161.82	169.8	-297.8	296.4	269.8	26.57	11.154			
5,900.0	5,855.6	5,893.6	5,860.2	16.8	17.5	-161.82	169.8	-297.8	296.4	269.8	26.59	11.148			
5,985.0	5,940.6	5,978.6	5,945.2	16.8	17.5	-161.82	169.8	-297.8	296.4	269.7	26.72	11.095			
6,000.0	5,955.6	5,993.6	5,960.2	16.8	17.6	-161.82	169.8	-297.8	296.4	269.7	26.74	11.085			
6,080.0	6,035.6	6,073.6	6,040.2	16.9	17.6	-161.82	169.8	-297.8	296.4	269.5	26.86	11.036			
6,100.0	6,055.6	6,093.6	6,060.2	16.9	17.6	-161.82	169.8	-297.8	296.4	269.5	26.89	11.024			
6,175.0	6,130.6	6,168.6	6,135.2	16.9	17.6	-161.82	169.8	-297.8	296.4	269.4	27.00	10.978			
6,200.0	6,155.6	6,193.6	6,160.2	16.9	17.7	-161.82	169.8	-297.8	296.4	269.4	27.04	10.963			
6,270.0	6,225.6	6,263.6	6,230.2	17.0	17.7	-161.82	169.8	-297.8	296.4	269.3	27.14	10.920			
6,300.0	6,255.6	6,293.6	6,260.2	17.0	17.7	-161.82	169.8	-297.8	296.4	269.2	27.19	10.902			
6,365.0	6,320.6	6,358.6	6,325.2	17.0	17.8	-161.82	169.8	-297.8	296.4	269.1	27.28	10.863			
6,400.0	6,355.6	6,393.6	6,360.2	17.0	17.8	-161.82	169.8	-297.8	296.4	269.1	27.34	10.843			
6,460.0	6,415.6	6,453.6	6,420.2	17.1	17.8	-161.82	169.8	-297.8	296.4	269.0	27.43	10.807			
6,500.0	6,455.6	6,493.6	6,460.2	17.1	17.8	-161.82	169.8	-297.8	296.4	268.9	27.49	10.783			
6,555.0	6,510.6	6,548.6	6,515.2	17.1	17.9	-161.82	169.8	-297.8	296.4	268.8	27.57	10.751			
6,600.0	6,555.6	6,593.6	6,560.2	17.2	17.9	-161.82	169.8	-297.8	296.4	268.8	27.64	10.725			
6,650.0	6,605.6	6,643.6	6,610.2	17.2	17.9	-161.82	169.8	-297.8	296.4	268.7	27.71	10.696			
6,700.0	6,655.6	6,693.6	6,660.2	17.2	17.9	-161.82	169.8	-297.8	296.4	268.6	27.79	10.667			
6,745.0	6,700.6	6,738.6	6,705.2	17.3	18.0	-161.82	169.8	-297.8	296.4	268.5	27.86	10.641			
6,800.0	6,755.6	6,793.6	6,760.2	17.3	18.0	-161.82	169.8	-297.8	296.4	268.5	27.94	10.609			
6,840.0	6,795.6	6,833.6	6,800.2	17.3	18.0	-161.82	169.8	-297.8	296.4	268.4	28.00	10.587			
6,900.0	6,855.6	6,893.6	6,860.2	17.4	18.0	-161.82	169.8	-297.8	296.4	268.3	28.09	10.553			
6,935.0	6,890.6	6,928.6	6,895.2	17.4	18.1	-161.82	169.8	-297.8	296.4	268.3	28.14	10.533			
7,000.0	6,955.6	6,993.6	6,960.2	17.4	18.1	-161.82	169.8	-297.8	296.4	268.2	28.24	10.496			
7,030.0	6,985.6	7,023.6	6,990.2	17.4	18.1	-161.82	169.8	-297.8	296.4	268.1	28.28	10.479			
7,100.0	7,055.6	7,093.6	7,060.2	17.5	18.2	-161.82	169.8	-297.8	296.4	268.0	28.39	10.440			
7,125.0	7,080.6	7,118.6	7,085.2	17.5	18.2	-161.82	169.8	-297.8	296.4	268.0	28.43	10.427			
7,200.0	7,155.6	7,193.6	7,160.2	17.5	18.2	-161.82	169.8	-297.8	296.4	267.9	28.54	10.385			
7,220.0	7,175.6	7,213.6	7,180.2	17.6	18.2	-161.82	169.8	-297.8	296.4	267.8	28.57	10.374			
7,300.0	7,255.6	7,293.6	7,260.2	17.6	18.3	-161.82	169.8	-297.8	296.4	267.7	28.69	10.331			
7,315.0	7,270.6	7,308.6	7,275.2	17.6	18.3	-161.82	169.8	-297.8	296.4	267.7	28.71	10.322			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-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	
7,400.0	7,355.6	7,393.6	7,360.2	17.7	18.3	-161.82	169.8	-297.8	296.4	267.6	28.84	10.276		
7,410.0	7,365.6	7,403.6	7,370.2	17.7	18.3	-161.82	169.8	-297.8	296.4	267.5	28.86	10.271		
7,500.0	7,455.6	7,493.6	7,460.2	17.7	18.4	-161.82	169.8	-297.8	296.4	267.4	28.99	10.223		
7,505.0	7,460.6	7,498.6	7,465.2	17.7	18.4	-161.82	169.8	-297.8	296.4	267.4	29.00	10.220		
7,600.0	7,555.6	7,593.6	7,560.2	17.8	18.4	-161.82	169.8	-297.8	296.4	267.3	29.15	10.170		
7,695.0	7,650.6	7,688.6	7,655.2	17.8	18.5	-161.82	169.8	-297.8	296.4	267.1	29.29	10.120		
7,700.0	7,655.6	7,693.6	7,660.2	17.8	18.5	-161.82	169.8	-297.8	296.4	267.1	29.30	10.117		
7,790.0	7,745.6	7,783.6	7,750.2	17.9	18.6	-161.82	169.8	-297.8	296.4	267.0	29.43	10.070		
7,800.0	7,755.6	7,793.6	7,760.2	17.9	18.6	-161.82	169.8	-297.8	296.4	267.0	29.45	10.065		
7,885.0	7,840.6	7,878.6	7,845.2	18.0	18.6	-161.82	169.8	-297.8	296.4	266.8	29.58	10.021		
7,900.0	7,855.6	7,893.6	7,860.2	18.0	18.6	-161.82	169.8	-297.8	296.4	266.8	29.60	10.013		
7,980.0	7,935.6	7,973.6	7,940.2	18.0	18.7	-161.82	169.8	-297.8	296.4	266.7	29.72	9.972		
8,000.0	7,955.6	7,993.6	7,960.2	18.0	18.7	-161.82	169.8	-297.8	296.4	266.7	29.75	9.962		
8,075.0	8,030.6	8,068.6	8,035.2	18.1	18.7	-161.82	169.8	-297.8	296.4	266.5	29.87	9.924		
8,100.0	8,055.6	8,093.6	8,060.2	18.1	18.7	-161.82	169.8	-297.8	296.4	266.5	29.90	9.912		
8,170.0	8,125.6	8,163.6	8,130.2	18.1	18.8	-161.82	169.8	-297.8	296.4	266.4	30.01	9.876		
8,200.0	8,155.6	8,193.6	8,160.2	18.2	18.8	-161.82	169.8	-297.8	296.4	266.3	30.06	9.861		
8,265.0	8,220.6	8,258.6	8,225.2	18.2	18.8	-161.82	169.8	-297.8	296.4	266.2	30.16	9.829		
8,300.0	8,255.6	8,293.6	8,260.2	18.2	18.8	-161.82	169.8	-297.8	296.4	266.2	30.21	9.812		
8,360.0	8,315.6	8,353.6	8,320.2	18.3	18.9	-161.82	169.8	-297.8	296.4	266.1	30.30	9.782		
8,400.0	8,355.6	8,393.6	8,360.2	18.3	18.9	-161.82	169.8	-297.8	296.4	266.0	30.36	9.762		
8,401.5	8,357.2	8,395.1	8,361.8	18.3	18.9	-161.82	169.8	-297.8	296.4	266.0	30.36	9.762		
8,455.0	8,410.6	8,443.3	8,409.9	18.3	18.9	-161.82	169.7	-297.8	296.5	266.2	30.37	9.763		
8,500.0	8,455.6	8,473.3	8,439.9	18.4	18.9	-161.90	168.3	-297.8	298.5	268.2	30.33	9.840		
8,550.0	8,505.6	8,500.0	8,466.5	18.4	19.0	-162.05	165.8	-297.8	303.4	273.1	30.24	10.031		
8,600.0	8,555.6	8,539.2	8,505.2	18.4	19.0	-162.38	159.9	-297.9	310.8	280.5	30.32	10.250		
8,645.0	8,600.6	8,568.0	8,533.3	18.4	19.0	-162.71	153.8	-297.9	319.8	289.5	30.34	10.542		
8,700.0	8,655.6	8,600.0	8,564.2	18.5	19.0	-163.14	145.5	-298.0	333.8	303.4	30.35	10.997		
8,740.0	8,695.6	8,626.4	8,589.4	18.5	19.1	-163.55	137.3	-298.1	345.8	315.4	30.42	11.368		
8,800.0	8,755.6	8,661.4	8,621.9	18.5	19.1	-164.13	124.7	-298.2	366.8	336.3	30.49	12.027		
8,835.0	8,790.6	8,681.0	8,639.9	18.6	19.1	-164.48	116.7	-298.2	380.5	350.0	30.54	12.457		
8,900.0	8,855.6	8,715.8	8,671.0	18.6	19.1	-165.12	101.2	-298.4	408.8	378.2	30.65	13.337		
8,930.0	8,885.6	8,731.1	8,684.4	18.6	19.1	-165.41	93.7	-298.4	423.1	392.4	30.71	13.777		
9,000.0	8,955.6	8,765.1	8,713.4	18.7	19.2	-166.05	75.9	-298.6	459.0	428.1	30.85	14.876		
9,025.0	8,980.6	8,776.7	8,723.0	18.7	19.2	-166.27	69.5	-298.6	472.6	441.7	30.91	15.292		
9,100.0	9,055.6	8,800.0	8,741.9	18.7	19.2	-166.71	55.9	-298.7	516.2	485.2	31.03	16.637		
9,120.0	9,075.6	8,817.8	8,756.0	18.8	19.2	-167.04	45.0	-298.8	528.2	497.1	31.14	16.965		
9,200.0	9,155.6	8,850.0	8,780.6	18.8	19.3	-167.63	24.3	-299.0	579.1	547.7	31.36	18.469		
9,215.0	9,170.6	8,850.0	8,780.6	18.8	19.3	-167.63	24.3	-299.0	589.0	557.7	31.37	18.777		
9,257.4	9,213.0	8,869.9	8,795.2	18.8	19.3	-167.98	10.8	-299.1	617.6	586.1	31.51	19.601		
9,300.0	9,255.6	8,884.9	8,805.9	18.9	19.3	10.58	0.2	-299.2	646.0	614.6	31.39	20.582		
9,310.0	9,265.6	8,900.0	8,816.4	18.9	19.3	10.22	-10.6	-299.3	652.7	621.2	31.46	20.744		
9,350.0	9,305.2	8,900.0	8,816.4	18.9	19.3	9.68	-10.6	-299.3	677.4	645.9	31.54	21.481		
9,400.0	9,354.2	8,921.3	8,830.7	19.0	19.3	8.88	-26.4	-299.4	706.7	675.0	31.71	22.286		
9,405.0	9,359.0	8,923.1	8,831.9	19.0	19.3	8.82	-27.8	-299.4	709.5	677.8	31.73	22.362		
9,450.0	9,402.0	8,950.0	8,849.0	19.1	19.4	8.19	-48.5	-299.6	733.9	702.0	31.91	22.999		
9,500.0	9,448.5	8,950.0	8,849.0	19.1	19.4	7.80	-48.5	-299.6	758.6	726.6	32.05	23.672		
9,550.0	9,493.1	8,977.9	8,865.8	19.2	19.4	7.33	-70.8	-299.8	780.9	748.7	32.26	24.207		
9,595.0	9,531.4	9,000.0	8,878.2	19.2	19.4	6.99	-89.1	-299.9	799.1	766.6	32.45	24.623		
9,600.0	9,535.6	9,000.0	8,878.2	19.3	19.4	6.97	-89.1	-299.9	800.9	768.5	32.47	24.668		
9,650.0	9,575.6	9,016.7	8,887.2	19.3	19.4	6.69	-103.1	-300.1	818.5	785.8	32.68	25.044		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,690.0	9,605.7	9,032.3	8,895.2	19.4	19.4	6.50	-116.6	-300.2	830.7	797.9	32.86	25.278	
9,700.0	9,612.9	9,050.0	8,903.8	19.4	19.5	6.43	-132.0	-300.3	833.8	800.9	32.92	25.326	
9,750.0	9,647.2	9,050.0	8,903.8	19.4	19.5	6.29	-132.0	-300.3	846.1	813.0	33.15	25.527	
9,785.0	9,669.2	9,069.8	8,912.8	19.5	19.5	6.18	-149.6	-300.4	853.3	820.0	33.33	25.606	
9,800.0	9,678.1	9,075.7	8,915.4	19.5	19.5	6.14	-154.9	-300.5	856.1	822.7	33.40	25.629	
9,850.0	9,705.5	9,100.0	8,925.5	19.6	19.5	6.04	-177.1	-300.7	863.5	829.8	33.66	25.650	
9,880.0	9,720.2	9,100.0	8,925.5	19.6	19.5	6.00	-177.1	-300.7	866.7	832.9	33.83	25.623	
9,900.0	9,729.1	9,115.4	8,931.4	19.6	19.5	5.98	-191.3	-300.8	868.3	834.3	33.94	25.585	
9,950.0	9,748.9	9,150.0	8,943.2	19.6	19.6	5.94	-223.8	-301.1	870.8	836.6	34.21	25.450	
9,975.0	9,757.2	9,150.0	8,943.2	19.7	19.6	5.94	-223.8	-301.1	870.6	836.2	34.36	25.337	
10,000.0	9,764.5	9,150.0	8,943.2	19.7	19.6	5.95	-223.8	-301.1	870.1	835.6	34.51	25.211	
10,050.0	9,776.0	9,175.1	8,950.5	19.7	19.6	5.99	-247.8	-301.3	867.0	832.2	34.81	24.908	
10,070.0	9,779.3	9,183.1	8,952.6	19.7	19.6	6.02	-255.5	-301.3	865.1	830.2	34.93	24.766	
10,100.0	9,783.1	9,200.0	8,956.8	19.7	19.6	6.07	-271.9	-301.4	861.4	826.3	35.11	24.536	
10,150.0	9,786.0	9,200.0	8,956.8	19.8	19.6	6.16	-271.9	-301.4	853.5	818.1	35.44	24.081	
10,157.1	9,786.0	9,217.6	8,960.5	19.8	19.6	6.20	-289.1	-301.6	851.8	816.3	35.46	24.019	
10,165.0	9,786.0	9,220.7	8,961.1	19.8	19.6	6.20	-292.2	-301.6	850.3	814.8	35.51	23.947	
10,200.0	9,786.0	9,234.7	8,963.7	19.8	19.6	6.22	-305.9	-301.7	844.0	808.3	35.69	23.646	
10,260.0	9,786.1	9,250.0	8,966.1	19.8	19.6	6.24	-321.0	-301.9	835.2	799.2	36.05	23.169	
10,300.0	9,786.1	9,275.1	8,969.1	19.8	19.7	6.26	-345.9	-302.1	830.6	794.3	36.27	22.900	
10,355.0	9,786.1	9,300.0	8,971.1	19.9	19.7	6.28	-370.7	-302.3	826.2	789.6	36.61	22.569	
10,400.0	9,786.1	9,316.1	8,971.8	19.9	19.7	6.28	-386.8	-302.4	824.2	787.4	36.88	22.348	
10,450.0	9,786.2	9,343.2	8,972.0	19.9	19.7	6.28	-413.9	-302.6	823.7	786.5	37.17	22.159	
10,500.0	9,786.2	9,393.2	8,972.0	19.9	19.8	6.28	-463.9	-303.0	823.7	786.3	37.40	22.023	
10,545.0	9,786.2	9,438.2	8,972.1	20.0	19.8	6.28	-508.9	-303.4	823.7	786.1	37.63	21.888	
10,600.0	9,786.2	9,493.2	8,972.1	20.0	19.9	6.28	-563.9	-303.9	823.7	785.8	37.92	21.724	
10,640.0	9,786.3	9,533.2	8,972.1	20.0	19.9	6.28	-603.9	-304.2	823.7	785.5	38.14	21.594	
10,700.0	9,786.3	9,593.2	8,972.2	20.1	20.0	6.28	-663.9	-304.7	823.7	785.2	38.49	21.400	
10,735.0	9,786.3	9,628.2	8,972.2	20.1	20.1	6.28	-698.9	-305.0	823.7	785.0	38.71	21.279	
10,800.0	9,786.3	9,693.2	8,972.2	20.2	20.2	6.28	-763.9	-305.5	823.7	784.6	39.12	21.056	
10,830.0	9,786.4	9,723.2	8,972.2	20.2	20.2	6.28	-793.9	-305.8	823.7	784.3	39.32	20.947	
10,900.0	9,786.4	9,793.2	8,972.3	20.3	20.3	6.28	-863.9	-306.3	823.7	783.9	39.80	20.695	
10,925.0	9,786.4	9,818.2	8,972.3	20.3	20.4	6.28	-888.9	-306.5	823.7	783.7	39.98	20.602	
11,000.0	9,786.4	9,893.2	8,972.3	20.4	20.5	6.28	-963.9	-307.2	823.7	783.1	40.53	20.322	
11,020.0	9,786.5	9,913.2	8,972.3	20.4	20.5	6.28	-983.9	-307.3	823.7	783.0	40.68	20.245	
11,100.0	9,786.5	9,993.2	8,972.4	20.5	20.7	6.28	-1,063.9	-308.0	823.6	782.3	41.31	19.940	
11,115.0	9,786.5	10,008.2	8,972.4	20.6	20.7	6.28	-1,078.9	-308.1	823.6	782.2	41.43	19.881	
11,200.0	9,786.5	10,093.2	8,972.5	20.7	20.9	6.28	-1,163.9	-308.8	823.6	781.5	42.13	19.551	
11,210.0	9,786.6	10,103.2	8,972.5	20.7	21.0	6.28	-1,173.9	-308.9	823.6	781.4	42.21	19.511	
11,300.0	9,786.6	10,193.2	8,972.5	20.9	21.2	6.28	-1,263.8	-309.6	823.6	780.6	42.99	19.158	
11,305.0	9,786.6	10,198.2	8,972.5	20.9	21.2	6.28	-1,268.8	-309.7	823.6	780.6	43.04	19.138	
11,400.0	9,786.7	10,293.2	8,972.6	21.1	21.5	6.28	-1,363.8	-310.5	823.6	779.7	43.89	18.764	
11,495.0	9,786.7	10,388.2	8,972.6	21.4	21.7	6.28	-1,458.8	-311.3	823.6	778.8	44.79	18.389	
11,500.0	9,786.7	10,393.2	8,972.6	21.4	21.8	6.28	-1,463.8	-311.3	823.6	778.8	44.83	18.370	
11,590.0	9,786.8	10,483.2	8,972.7	21.6	22.0	6.28	-1,553.8	-312.0	823.6	777.9	45.71	18.017	
11,600.0	9,786.8	10,493.2	8,972.7	21.7	22.1	6.28	-1,563.8	-312.1	823.6	777.8	45.81	17.979	
11,685.0	9,786.8	10,578.2	8,972.7	21.9	22.4	6.28	-1,648.8	-312.8	823.6	776.9	46.66	17.649	
11,700.0	9,786.8	10,593.2	8,972.8	22.0	22.4	6.28	-1,663.8	-312.9	823.6	776.8	46.82	17.592	
11,780.0	9,786.9	10,673.2	8,972.8	22.3	22.7	6.28	-1,743.8	-313.6	823.6	775.9	47.65	17.286	
11,800.0	9,786.9	10,693.2	8,972.8	22.4	22.8	6.28	-1,763.8	-313.8	823.6	775.7	47.85	17.211	
11,875.0	9,786.9	10,768.2	8,972.9	22.7	23.1	6.28	-1,838.8	-314.4	823.6	774.9	48.65	16.928	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,900.0	9,786.9	10,793.2	8,972.9	22.8	23.2	6.28	-1,863.8	-314.6	823.6	774.7	48.92	16.836	
11,970.0	9,787.0	10,863.2	8,972.9	23.1	23.5	6.28	-1,933.8	-315.2	823.6	773.9	49.68	16.576	
12,000.0	9,787.0	10,893.2	8,972.9	23.2	23.6	6.28	-1,963.8	-315.4	823.6	773.6	50.01	16.468	
12,065.0	9,787.0	10,958.2	8,973.0	23.5	23.9	6.28	-2,028.8	-316.0	823.6	772.8	50.74	16.232	
12,100.0	9,787.0	10,993.2	8,973.0	23.7	24.0	6.28	-2,063.8	-316.3	823.6	772.4	51.13	16.108	
12,160.0	9,787.0	11,053.2	8,973.0	24.0	24.3	6.28	-2,123.8	-316.7	823.6	771.7	51.81	15.895	
12,200.0	9,787.1	11,093.2	8,973.1	24.2	24.5	6.28	-2,163.8	-317.1	823.6	771.3	52.27	15.756	
12,255.0	9,787.1	11,148.2	8,973.1	24.5	24.8	6.28	-2,218.8	-317.5	823.6	770.6	52.91	15.566	
12,300.0	9,787.1	11,193.2	8,973.1	24.7	25.0	6.28	-2,263.8	-317.9	823.6	770.1	53.43	15.413	
12,350.0	9,787.1	11,243.2	8,973.1	25.0	25.2	6.28	-2,313.8	-318.3	823.5	769.5	54.02	15.244	
12,400.0	9,787.2	11,293.2	8,973.2	25.3	25.5	6.28	-2,363.8	-318.7	823.5	768.9	54.61	15.079	
12,445.0	9,787.2	11,338.2	8,973.2	25.6	25.7	6.28	-2,408.8	-319.1	823.5	768.4	55.15	14.931	
12,500.0	9,787.2	11,393.2	8,973.2	25.9	26.0	6.28	-2,463.8	-319.6	823.5	767.7	55.82	14.754	
12,540.0	9,787.2	11,433.2	8,973.3	26.1	26.2	6.28	-2,503.8	-319.9	823.5	767.2	56.30	14.627	
12,600.0	9,787.3	11,493.2	8,973.3	26.5	26.5	6.28	-2,563.8	-320.4	823.5	766.5	57.04	14.439	
12,635.0	9,787.3	11,528.2	8,973.3	26.7	26.7	6.28	-2,598.8	-320.7	823.5	766.1	57.47	14.330	
12,700.0	9,787.3	11,593.2	8,973.4	27.0	27.1	6.28	-2,663.8	-321.2	823.5	765.2	58.27	14.132	
12,730.0	9,787.3	11,623.2	8,973.4	27.2	27.2	6.28	-2,693.8	-321.5	823.5	764.9	58.65	14.042	
12,800.0	9,787.4	11,693.2	8,973.4	27.7	27.6	6.28	-2,763.8	-322.0	823.5	764.0	59.52	13.835	
12,825.0	9,787.4	11,718.2	8,973.4	27.8	27.8	6.28	-2,788.8	-322.2	823.5	763.7	59.84	13.762	
12,900.0	9,787.4	11,793.2	8,973.5	28.3	28.2	6.28	-2,863.8	-322.9	823.5	762.7	60.79	13.546	
12,920.0	9,787.4	11,813.2	8,973.5	28.4	28.3	6.28	-2,883.8	-323.0	823.5	762.5	61.05	13.490	
13,000.0	9,787.5	11,893.2	8,973.5	28.9	28.8	6.28	-2,963.8	-323.7	823.5	761.4	62.07	13.267	
13,015.0	9,787.5	11,908.2	8,973.5	29.0	28.9	6.28	-2,978.8	-323.8	823.5	761.2	62.27	13.226	
13,100.0	9,787.5	11,993.2	8,973.6	29.5	29.4	6.28	-3,063.8	-324.5	823.5	760.1	63.37	12.996	
13,110.0	9,787.5	12,003.2	8,973.6	29.6	29.4	6.28	-3,073.8	-324.6	823.5	760.0	63.50	12.969	
13,200.0	9,787.6	12,093.2	8,973.7	30.2	30.0	6.28	-3,163.8	-325.3	823.5	758.8	64.67	12.733	
13,205.0	9,787.6	12,098.2	8,973.7	30.2	30.0	6.28	-3,168.8	-325.4	823.5	758.7	64.74	12.720	
13,300.0	9,787.6	12,193.2	8,973.7	30.8	30.6	6.28	-3,263.8	-326.2	823.5	757.5	65.99	12.479	
13,395.0	9,787.7	12,288.2	8,973.8	31.5	31.2	6.28	-3,358.8	-327.0	823.5	756.2	67.25	12.245	
13,400.0	9,787.7	12,293.2	8,973.8	31.5	31.2	6.28	-3,363.8	-327.0	823.5	756.1	67.32	12.233	
13,490.0	9,787.7	12,383.2	8,973.8	32.1	31.8	6.28	-3,453.8	-327.7	823.5	754.9	68.52	12.018	
13,500.0	9,787.8	12,393.2	8,973.8	32.2	31.8	6.28	-3,463.8	-327.8	823.5	754.8	68.65	11.994	
13,585.0	9,787.8	12,478.2	8,973.9	32.7	32.4	6.28	-3,548.8	-328.5	823.5	753.7	69.80	11.797	
13,600.0	9,787.8	12,493.2	8,973.9	32.8	32.5	6.28	-3,563.8	-328.6	823.4	753.4	70.00	11.763	
13,680.0	9,787.8	12,573.2	8,973.9	33.4	33.0	6.28	-3,643.8	-329.3	823.4	752.4	71.09	11.583	
13,700.0	9,787.9	12,593.2	8,974.0	33.5	33.1	6.28	-3,663.8	-329.5	823.4	752.1	71.36	11.539	
13,775.0	9,787.9	12,668.2	8,974.0	34.0	33.6	6.28	-3,738.8	-330.1	823.4	751.1	72.38	11.376	
13,800.0	9,787.9	12,693.2	8,974.0	34.2	33.7	6.28	-3,763.8	-330.3	823.4	750.7	72.72	11.323	
13,870.0	9,787.9	12,763.2	8,974.1	34.7	34.2	6.28	-3,833.8	-330.9	823.4	749.7	73.69	11.175	
13,900.0	9,788.0	12,793.2	8,974.1	34.9	34.4	6.28	-3,863.8	-331.1	823.4	749.3	74.10	11.113	
13,965.0	9,788.0	12,858.2	8,974.1	35.3	34.8	6.28	-3,928.8	-331.7	823.4	748.4	75.00	10.980	
14,000.0	9,788.0	12,893.2	8,974.1	35.6	35.0	6.28	-3,963.8	-332.0	823.4	747.9	75.48	10.909	
14,060.0	9,788.0	12,953.2	8,974.2	36.0	35.4	6.28	-4,023.8	-332.4	823.4	747.1	76.31	10.790	
14,100.0	9,788.1	12,993.2	8,974.2	36.3	35.7	6.28	-4,063.8	-332.8	823.4	746.5	76.87	10.712	
14,155.0	9,788.1	13,048.2	8,974.2	36.6	36.1	6.28	-4,118.8	-333.2	823.4	745.8	77.63	10.606	
14,200.0	9,788.1	13,093.2	8,974.3	37.0	36.4	6.28	-4,163.7	-333.6	823.4	745.1	78.26	10.521	
14,250.0	9,788.1	13,143.2	8,974.3	37.3	36.7	6.28	-4,213.7	-334.0	823.4	744.4	78.96	10.428	
14,300.0	9,788.2	13,193.2	8,974.3	37.7	37.0	6.28	-4,263.7	-334.4	823.4	743.7	79.66	10.336	
14,345.0	9,788.2	13,238.2	8,974.3	38.0	37.4	6.28	-4,308.7	-334.8	823.4	743.1	80.30	10.254	
14,400.0	9,788.2	13,293.2	8,974.4	38.4	37.7	6.28	-4,363.7	-335.3	823.4	742.3	81.07	10.156	

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-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)		
14,440.0	9,788.2	13,333.2	8,974.4	38.6	38.0	6.28	-4,403.7	-335.6	823.4	741.7	81.64	10.086	
14,500.0	9,788.3	13,393.2	8,974.4	39.1	38.4	6.28	-4,463.7	-336.1	823.4	740.9	82.48	9.982	
14,535.0	9,788.3	13,428.2	8,974.5	39.3	38.6	6.28	-4,498.7	-336.4	823.4	740.4	82.98	9.922	
14,600.0	9,788.3	13,493.2	8,974.5	39.8	39.1	6.28	-4,563.7	-336.9	823.4	739.5	83.90	9.813	
14,630.0	9,788.3	13,523.2	8,974.5	40.0	39.3	6.28	-4,593.7	-337.2	823.4	739.0	84.33	9.764	
14,700.0	9,788.4	13,593.2	8,974.6	40.5	39.8	6.28	-4,663.7	-337.7	823.4	738.0	85.33	9.649	
14,725.0	9,788.4	13,618.2	8,974.6	40.6	39.9	6.28	-4,688.7	-337.9	823.4	737.7	85.69	9.609	
14,800.0	9,788.4	13,693.2	8,974.6	41.2	40.5	6.28	-4,763.7	-338.6	823.4	736.6	86.76	9.490	
14,820.0	9,788.4	13,713.2	8,974.6	41.3	40.6	6.28	-4,783.7	-338.7	823.4	736.3	87.04	9.459	
14,900.0	9,788.5	13,793.2	8,974.7	41.9	41.2	6.28	-4,863.7	-339.4	823.3	735.2	88.19	9.336	
14,915.0	9,788.5	13,808.2	8,974.7	42.0	41.3	6.28	-4,878.7	-339.5	823.3	734.9	88.41	9.313	
15,000.0	9,788.5	13,893.2	8,974.7	42.6	41.8	6.28	-4,963.7	-340.2	823.3	733.7	89.63	9.186	
15,010.0	9,788.5	13,903.2	8,974.7	42.7	41.9	6.28	-4,973.7	-340.3	823.3	733.6	89.77	9.171	
15,100.0	9,788.6	13,993.2	8,974.8	43.3	42.5	6.28	-5,063.7	-341.0	823.3	732.3	91.07	9.040	
15,105.0	9,788.6	13,998.2	8,974.8	43.4	42.6	6.28	-5,068.7	-341.1	823.3	732.2	91.14	9.033	
15,200.0	9,788.6	14,093.2	8,974.9	44.0	43.2	6.28	-5,163.7	-341.9	823.3	730.8	92.52	8.899	
15,295.0	9,788.7	14,188.2	8,974.9	44.7	43.9	6.28	-5,258.7	-342.6	823.3	729.4	93.90	8.768	
15,300.0	9,788.7	14,193.2	8,974.9	44.8	43.9	6.28	-5,263.7	-342.7	823.3	729.3	93.97	8.762	
15,390.0	9,788.7	14,283.2	8,975.0	45.4	44.6	6.28	-5,353.7	-343.4	823.3	728.0	95.28	8.641	
15,400.0	9,788.7	14,293.2	8,975.0	45.5	44.7	6.28	-5,363.7	-343.5	823.3	727.9	95.42	8.628	
15,485.0	9,788.8	14,378.2	8,975.0	46.1	45.3	6.28	-5,448.7	-344.2	823.3	726.6	96.66	8.517	
15,500.0	9,788.8	14,393.2	8,975.0	46.2	45.4	6.28	-5,463.7	-344.3	823.3	726.4	96.88	8.498	
15,580.0	9,788.8	14,473.2	8,975.1	46.8	45.9	6.28	-5,543.7	-345.0	823.3	725.2	98.05	8.397	
15,600.0	9,788.9	14,493.2	8,975.1	46.9	46.1	6.28	-5,563.7	-345.2	823.3	724.9	98.34	8.372	
15,675.0	9,788.9	14,568.2	8,975.1	47.5	46.6	6.28	-5,638.7	-345.8	823.3	723.8	99.44	8.279	
15,700.0	9,788.9	14,593.2	8,975.2	47.6	46.8	6.28	-5,663.7	-346.0	823.3	723.5	99.81	8.249	
15,770.0	9,788.9	14,663.2	8,975.2	48.2	47.3	6.28	-5,733.7	-346.6	823.3	722.4	100.84	8.165	
15,800.0	9,789.0	14,693.2	8,975.2	48.4	47.5	6.28	-5,763.7	-346.8	823.3	722.0	101.28	8.129	
15,865.0	9,789.0	14,758.2	8,975.3	48.8	48.0	6.28	-5,828.7	-347.4	823.3	721.0	102.23	8.053	
15,900.0	9,789.0	14,793.2	8,975.3	49.1	48.2	6.28	-5,863.7	-347.6	823.3	720.5	102.75	8.013	
15,960.0	9,789.0	14,853.2	8,975.3	49.5	48.6	6.28	-5,923.7	-348.1	823.3	719.6	103.63	7.944	
16,000.0	9,789.1	14,893.2	8,975.3	49.8	48.9	6.28	-5,963.7	-348.5	823.3	719.0	104.22	7.899	
16,055.0	9,789.1	14,948.2	8,975.4	50.2	49.3	6.28	-6,018.7	-348.9	823.3	718.2	105.03	7.838	
16,100.0	9,789.1	14,993.2	8,975.4	50.6	49.6	6.28	-6,063.7	-349.3	823.3	717.6	105.70	7.789	
16,150.0	9,789.1	15,043.2	8,975.4	50.9	50.0	6.28	-6,113.7	-349.7	823.3	716.8	106.44	7.735	
16,200.0	9,789.2	15,093.2	8,975.5	51.3	50.4	6.28	-6,163.7	-350.1	823.2	716.1	107.18	7.681	
16,245.0	9,789.2	15,138.2	8,975.5	51.6	50.7	6.28	-6,208.7	-350.5	823.2	715.4	107.84	7.634	
16,300.0	9,789.2	15,193.2	8,975.5	52.0	51.1	6.28	-6,263.7	-351.0	823.2	714.6	108.66	7.576	
16,340.0	9,789.2	15,233.2	8,975.5	52.3	51.4	6.28	-6,303.7	-351.3	823.2	714.0	109.25	7.535	
16,400.0	9,789.3	15,293.2	8,975.6	52.8	51.8	6.28	-6,363.7	-351.8	823.2	713.1	110.14	7.474	
16,435.0	9,789.3	15,328.2	8,975.6	53.0	52.0	6.28	-6,398.7	-352.1	823.2	712.6	110.66	7.439	
16,500.0	9,789.3	15,393.2	8,975.6	53.5	52.5	6.28	-6,463.7	-352.6	823.2	711.6	111.63	7.375	
16,530.0	9,789.3	15,423.2	8,975.7	53.7	52.7	6.28	-6,493.7	-352.9	823.2	711.1	112.07	7.345	
16,600.0	9,789.4	15,493.2	8,975.7	54.2	53.2	6.28	-6,563.7	-353.4	823.2	710.1	113.12	7.278	
16,625.0	9,789.4	15,518.2	8,975.7	54.4	53.4	6.28	-6,588.7	-353.6	823.2	709.7	113.49	7.254	
16,700.0	9,789.4	15,593.2	8,975.8	55.0	54.0	6.28	-6,663.7	-354.3	823.2	708.6	114.61	7.183	
16,720.0	9,789.4	15,613.2	8,975.8	55.1	54.1	6.28	-6,683.7	-354.4	823.2	708.3	114.90	7.164	
16,800.0	9,789.5	15,693.2	8,975.8	55.7	54.7	6.28	-6,763.7	-355.1	823.2	707.1	116.10	7.090	
16,815.0	9,789.5	15,708.2	8,975.8	55.8	54.8	6.28	-6,778.7	-355.2	823.2	706.9	116.32	7.077	
16,900.0	9,789.5	15,793.2	8,975.9	56.4	55.4	6.28	-6,863.7	-355.9	823.2	705.6	117.59	7.000	
16,910.0	9,789.5	15,803.2	8,975.9	56.5	55.5	6.28	-6,873.7	-356.0	823.2	705.4	117.74	6.991	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-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)	
17,000.0	9,789.6	15,893.2	8,975.9	57.2	56.2	6.28	-6,963.7	-356.7	823.2	704.1	119.09	6.912
17,005.0	9,789.6	15,898.2	8,975.9	57.2	56.2	6.28	-6,968.7	-356.8	823.2	704.0	119.17	6.908
17,100.0	9,789.6	15,993.2	8,976.0	57.9	56.9	6.28	-7,063.7	-357.6	823.2	702.6	120.59	6.826
17,195.0	9,789.7	16,088.2	8,976.1	58.6	57.6	6.28	-7,158.6	-358.3	823.2	701.2	122.01	6.747
17,200.0	9,789.7	16,093.2	8,976.1	58.6	57.6	6.28	-7,163.6	-358.4	823.2	701.1	122.09	6.742
17,290.0	9,789.7	16,183.2	8,976.1	59.3	58.3	6.28	-7,253.6	-359.1	823.2	699.7	123.44	6.668
17,300.0	9,789.7	16,193.2	8,976.1	59.4	58.3	6.28	-7,263.6	-359.2	823.2	699.6	123.59	6.660
17,385.0	9,789.8	16,278.2	8,976.2	60.0	59.0	6.28	-7,348.6	-359.9	823.2	698.3	124.87	6.592
17,400.0	9,789.8	16,293.2	8,976.2	60.1	59.1	6.28	-7,363.6	-360.0	823.2	698.1	125.09	6.580
17,480.0	9,789.8	16,373.2	8,976.2	60.7	59.7	6.28	-7,443.6	-360.7	823.1	696.8	126.30	6.517
17,500.0	9,789.9	16,393.2	8,976.2	60.9	59.8	6.28	-7,463.6	-360.9	823.1	696.5	126.60	6.502
17,575.0	9,789.9	16,468.2	8,976.3	61.4	60.4	6.28	-7,538.6	-361.5	823.1	695.4	127.73	6.444
17,600.0	9,789.9	16,493.2	8,976.3	61.6	60.5	6.28	-7,563.6	-361.7	823.1	695.0	128.11	6.425
17,670.0	9,789.9	16,563.2	8,976.3	62.1	61.1	6.28	-7,633.6	-362.3	823.1	694.0	129.16	6.373
17,700.0	9,790.0	16,593.2	8,976.4	62.4	61.3	6.28	-7,663.6	-362.5	823.1	693.5	129.61	6.351
17,765.0	9,790.0	16,658.2	8,976.4	62.8	61.8	6.28	-7,728.6	-363.1	823.1	692.5	130.59	6.303
17,800.0	9,790.0	16,693.2	8,976.4	63.1	62.0	6.28	-7,763.6	-363.3	823.1	692.0	131.12	6.277
17,860.0	9,790.0	16,753.2	8,976.5	63.5	62.5	6.28	-7,823.6	-363.8	823.1	691.1	132.03	6.234
17,900.0	9,790.1	16,793.2	8,976.5	63.8	62.7	6.28	-7,863.6	-364.2	823.1	690.5	132.63	6.206
17,955.0	9,790.1	16,848.2	8,976.5	64.3	63.2	6.28	-7,918.6	-364.6	823.1	689.6	133.47	6.167
18,000.0	9,790.1	16,893.2	8,976.5	64.6	63.5	6.28	-7,963.6	-365.0	823.1	689.0	134.15	6.136
18,050.0	9,790.1	16,943.2	8,976.6	65.0	63.9	6.28	-8,013.6	-365.4	823.1	688.2	134.90	6.101
18,100.0	9,790.2	16,993.2	8,976.6	65.3	64.2	6.28	-8,063.6	-365.8	823.1	687.4	135.66	6.067
18,145.0	9,790.2	17,038.2	8,976.6	65.7	64.6	6.28	-8,108.6	-366.2	823.1	686.8	136.34	6.037
18,200.0	9,790.2	17,093.2	8,976.7	66.1	65.0	6.28	-8,163.6	-366.6	823.1	685.9	137.17	6.000
18,240.0	9,790.2	17,133.2	8,976.7	66.4	65.3	6.28	-8,203.6	-367.0	823.1	685.3	137.78	5.974
18,300.0	9,790.3	17,193.2	8,976.7	66.8	65.7	6.28	-8,263.6	-367.5	823.1	684.4	138.69	5.935
18,335.0	9,790.3	17,228.2	8,976.7	67.1	66.0	6.28	-8,298.6	-367.8	823.1	683.9	139.22	5.912
18,400.0	9,790.3	17,293.2	8,976.8	67.6	66.4	6.28	-8,363.6	-368.3	823.1	682.9	140.21	5.870
18,430.0	9,790.3	17,323.2	8,976.8	67.8	66.7	6.28	-8,393.6	-368.5	823.1	682.4	140.66	5.851
18,500.0	9,790.4	17,393.2	8,976.8	68.3	67.2	6.28	-8,463.6	-369.1	823.1	681.3	141.73	5.807
18,525.0	9,790.4	17,418.2	8,976.9	68.5	67.4	6.28	-8,488.6	-369.3	823.1	681.0	142.11	5.792
18,600.0	9,790.4	17,493.2	8,976.9	69.1	67.9	6.28	-8,563.6	-370.0	823.1	679.8	143.24	5.746
18,620.0	9,790.4	17,513.2	8,976.9	69.2	68.1	6.28	-8,583.6	-370.1	823.1	679.5	143.55	5.734
18,700.0	9,790.5	17,593.2	8,977.0	69.8	68.7	6.28	-8,663.6	-370.8	823.1	678.3	144.76	5.685
18,715.0	9,790.5	17,608.2	8,977.0	69.9	68.8	6.28	-8,678.6	-370.9	823.0	678.1	144.99	5.676
18,800.0	9,790.5	17,693.2	8,977.0	70.6	69.4	6.28	-8,763.6	-371.6	823.0	676.8	146.29	5.626
18,810.0	9,790.5	17,703.2	8,977.0	70.6	69.5	6.28	-8,773.6	-371.7	823.0	676.6	146.44	5.620
18,900.0	9,790.6	17,793.2	8,977.1	71.3	70.1	6.28	-8,863.6	-372.4	823.0	675.2	147.81	5.568
18,905.0	9,790.6	17,798.2	8,977.1	71.3	70.2	6.28	-8,868.6	-372.5	823.0	675.2	147.88	5.565
19,000.0	9,790.6	17,893.2	8,977.1	72.0	70.9	6.28	-8,963.6	-373.3	823.0	673.7	149.33	5.511
19,095.0	9,790.7	17,988.2	8,977.2	72.8	71.6	6.28	-9,058.6	-374.0	823.0	672.2	150.78	5.458
19,100.0	9,790.7	17,993.2	8,977.2	72.8	71.6	6.28	-9,063.6	-374.1	823.0	672.2	150.86	5.456
19,190.0	9,790.7	18,083.2	8,977.3	73.5	72.3	6.28	-9,153.6	-374.8	823.0	670.8	152.23	5.406
19,200.0	9,790.7	18,093.2	8,977.3	73.5	72.4	6.28	-9,163.6	-374.9	823.0	670.6	152.38	5.401
19,285.0	9,790.8	18,178.2	8,977.3	74.2	73.0	6.28	-9,248.6	-375.6	823.0	669.3	153.68	5.355
19,300.0	9,790.8	18,193.2	8,977.3	74.3	73.1	6.28	-9,263.6	-375.7	823.0	669.1	153.91	5.347
19,380.0	9,790.8	18,273.2	8,977.4	74.9	73.7	6.28	-9,343.6	-376.4	823.0	667.9	155.13	5.305
19,400.0	9,790.8	18,293.2	8,977.4	75.0	73.9	6.28	-9,363.6	-376.6	823.0	667.6	155.43	5.295
19,475.0	9,790.9	18,368.2	8,977.4	75.6	74.4	6.28	-9,438.6	-377.2	823.0	666.4	156.58	5.256
19,500.0	9,790.9	18,393.2	8,977.4	75.8	74.6	6.28	-9,463.6	-377.4	823.0	666.0	156.96	5.243

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,570.0	9,790.9	18,463.2	8,977.5	76.3	75.1	6.28	-9,533.6	-378.0	823.0	665.0	158.03	5.208		
19,600.0	9,791.0	18,493.2	8,977.5	76.5	75.4	6.28	-9,563.6	-378.2	823.0	664.5	158.49	5.193		
19,665.0	9,791.0	18,558.2	8,977.5	77.0	75.8	6.28	-9,628.6	-378.8	823.0	663.5	159.48	5.160		
19,700.0	9,791.0	18,593.2	8,977.6	77.3	76.1	6.28	-9,663.6	-379.0	823.0	663.0	160.02	5.143		
19,760.0	9,791.0	18,653.2	8,977.6	77.7	76.5	6.28	-9,723.6	-379.5	823.0	662.0	160.94	5.114		
19,800.0	9,791.1	18,693.2	8,977.6	78.0	76.8	6.28	-9,763.6	-379.9	823.0	661.4	161.55	5.094		
19,855.0	9,791.1	18,748.2	8,977.7	78.5	77.3	6.28	-9,818.6	-380.3	823.0	660.6	162.39	5.068		
19,900.0	9,791.1	18,793.2	8,977.7	78.8	77.6	6.28	-9,863.6	-380.7	823.0	659.9	163.08	5.046		
19,950.0	9,791.1	18,843.2	8,977.7	79.2	78.0	6.28	-9,913.6	-381.1	823.0	659.1	163.85	5.023		
20,000.0	9,791.2	18,893.2	8,977.7	79.5	78.3	6.28	-9,963.6	-381.5	822.9	658.3	164.61	4.999		
20,045.0	9,791.2	18,938.2	8,977.8	79.9	78.7	6.28	-10,008.5	-381.9	822.9	657.6	165.30	4.978		
20,100.0	9,791.2	18,993.2	8,977.8	80.3	79.1	6.28	-10,063.5	-382.3	822.9	656.8	166.14	4.953		
20,140.0	9,791.2	19,033.2	8,977.8	80.6	79.4	6.28	-10,103.5	-382.7	822.9	656.2	166.76	4.935		
20,200.0	9,791.3	19,093.2	8,977.9	81.0	79.8	6.28	-10,163.5	-383.2	822.9	655.3	167.68	4.908		
20,235.0	9,791.3	19,128.2	8,977.9	81.3	80.1	6.28	-10,198.5	-383.5	822.9	654.7	168.21	4.892		
20,300.0	9,791.3	19,193.2	8,977.9	81.8	80.6	6.28	-10,263.5	-384.0	822.9	653.7	169.21	4.863		
20,330.0	9,791.3	19,223.2	8,977.9	82.0	80.8	6.28	-10,293.5	-384.2	822.9	653.3	169.67	4.850		
20,400.0	9,791.4	19,293.2	8,978.0	82.6	81.3	6.28	-10,363.5	-384.8	822.9	652.2	170.74	4.820		
20,425.0	9,791.4	19,318.2	8,978.0	82.7	81.5	6.28	-10,388.5	-385.0	822.9	651.8	171.13	4.809		
20,500.0	9,791.4	19,393.2	8,978.1	83.3	82.1	6.28	-10,463.5	-385.6	822.9	650.6	172.28	4.777		
20,520.0	9,791.4	19,413.2	8,978.1	83.5	82.2	6.28	-10,483.5	-385.8	822.9	650.3	172.59	4.768		
20,600.0	9,791.5	19,493.2	8,978.1	84.1	82.8	6.28	-10,563.5	-386.5	822.9	649.1	173.81	4.734		
20,615.0	9,791.5	19,508.2	8,978.1	84.2	82.9	6.28	-10,578.5	-386.6	822.9	648.9	174.04	4.728		
20,700.0	9,791.5	19,593.2	8,978.2	84.8	83.6	6.28	-10,663.5	-387.3	822.9	647.5	175.35	4.693		
20,710.0	9,791.5	19,603.2	8,978.2	84.9	83.6	6.28	-10,673.5	-387.4	822.9	647.4	175.50	4.689		
20,800.0	9,791.6	19,693.2	8,978.2	85.6	84.3	6.28	-10,763.5	-388.1	822.9	646.0	176.89	4.652		
20,805.0	9,791.6	19,698.2	8,978.2	85.6	84.4	6.28	-10,768.5	-388.2	822.9	645.9	176.96	4.650		
20,900.0	9,791.6	19,793.2	8,978.3	86.3	85.1	6.28	-10,863.5	-389.0	822.9	644.5	178.42	4.612		
20,995.0	9,791.7	19,888.2	8,978.3	87.0	85.8	6.28	-10,958.5	-389.7	822.9	643.0	179.88	4.574		
21,000.0	9,791.7	19,893.2	8,978.4	87.1	85.8	6.28	-10,963.5	-389.8	822.9	642.9	179.96	4.572		
21,090.0	9,791.7	19,983.2	8,978.4	87.7	86.5	6.28	-11,053.5	-390.5	822.9	641.5	181.35	4.538		
21,100.0	9,791.7	19,993.2	8,978.4	87.8	86.6	6.28	-11,063.5	-390.6	822.9	641.4	181.50	4.534		
21,185.0	9,791.8	20,078.2	8,978.5	88.5	87.2	6.28	-11,148.5	-391.3	822.9	640.0	182.81	4.501		
21,200.0	9,791.8	20,093.2	8,978.5	88.6	87.3	6.28	-11,163.5	-391.4	822.9	639.8	183.04	4.496		
21,280.0	9,791.8	20,173.2	8,978.5	89.2	87.9	6.28	-11,243.5	-392.1	822.8	638.6	184.27	4.465		
21,300.0	9,791.8	20,193.2	8,978.5	89.3	88.1	6.28	-11,263.5	-392.3	822.8	638.3	184.58	4.458		
21,375.0	9,791.9	20,268.2	8,978.6	89.9	88.6	6.28	-11,338.5	-392.9	822.8	637.1	185.73	4.430		
21,400.0	9,791.9	20,293.2	8,978.6	90.1	88.8	6.28	-11,363.5	-393.1	822.8	636.7	186.12	4.421		
21,470.0	9,791.9	20,363.2	8,978.6	90.6	89.3	6.28	-11,433.5	-393.7	822.8	635.6	187.20	4.396		
21,500.0	9,791.9	20,393.2	8,978.7	90.8	89.6	6.28	-11,463.5	-393.9	822.8	635.2	187.66	4.385		
21,565.0	9,792.0	20,458.2	8,978.7	91.3	90.1	6.28	-11,528.5	-394.4	822.8	634.2	188.66	4.361		
21,600.0	9,792.0	20,493.2	8,978.7	91.6	90.3	6.28	-11,563.5	-394.7	822.8	633.6	189.20	4.349		
21,660.0	9,792.0	20,553.2	8,978.7	92.0	90.8	6.28	-11,623.5	-395.2	822.8	632.7	190.12	4.328		
21,700.0	9,792.1	20,593.2	8,978.8	92.3	91.1	6.28	-11,663.5	-395.6	822.8	632.1	190.74	4.314		
21,755.0	9,792.1	20,648.2	8,978.8	92.8	91.5	6.28	-11,718.5	-396.0	822.8	631.2	191.59	4.295		
21,800.0	9,792.1	20,693.2	8,978.8	93.1	91.8	6.28	-11,763.5	-396.4	822.8	630.5	192.28	4.279		
21,850.0	9,792.1	20,743.2	8,978.9	93.5	92.2	6.28	-11,813.5	-396.8	822.8	629.8	193.05	4.262		
21,900.0	9,792.2	20,793.2	8,978.9	93.9	92.6	6.28	-11,863.5	-397.2	822.8	629.0	193.82	4.245		
21,945.0	9,792.2	20,838.2	8,978.9	94.2	92.9	6.28	-11,908.5	-397.6	822.8	628.3	194.52	4.230		
22,000.0	9,792.2	20,893.2	8,979.0	94.6	93.3	6.28	-11,963.5	-398.0	822.8	627.4	195.37	4.212		
22,040.0	9,792.2	20,933.2	8,979.0	94.9	93.6	6.28	-12,003.5	-398.4	822.8	626.8	195.98	4.198		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,100.0	9,792.3	20,993.2	8,979.0	95.4	94.1	6.28	-12,063.5	-398.9	822.8	625.9	196.91	4.179	
22,135.0	9,792.3	21,028.2	8,979.0	95.6	94.3	6.28	-12,098.5	-399.2	822.8	625.3	197.45	4.167	
22,200.0	9,792.3	21,093.2	8,979.1	96.1	94.8	6.28	-12,163.5	-399.7	822.8	624.3	198.45	4.146	
22,230.0	9,792.3	21,123.2	8,979.1	96.3	95.1	6.28	-12,193.5	-399.9	822.8	623.9	198.91	4.136	
22,300.0	9,792.4	21,193.2	8,979.1	96.9	95.6	6.28	-12,263.5	-400.5	822.8	622.8	199.99	4.114	
22,325.0	9,792.4	21,218.2	8,979.1	97.1	95.8	6.28	-12,288.5	-400.7	822.8	622.4	200.38	4.106	
22,400.0	9,792.4	21,293.2	8,979.2	97.6	96.3	6.28	-12,363.5	-401.3	822.8	621.2	201.54	4.082	
22,420.0	9,792.4	21,313.2	8,979.2	97.8	96.5	6.28	-12,383.5	-401.5	822.8	620.9	201.85	4.076	
22,500.0	9,792.5	21,393.2	8,979.3	98.4	97.1	6.28	-12,463.5	-402.2	822.8	619.7	203.08	4.051	
22,515.0	9,792.5	21,408.2	8,979.3	98.5	97.2	6.28	-12,478.5	-402.3	822.8	619.4	203.31	4.047	
22,600.0	9,792.5	21,493.2	8,979.3	99.1	97.8	6.28	-12,563.5	-403.0	822.7	618.1	204.63	4.021	
22,610.0	9,792.5	21,503.2	8,979.3	99.2	97.9	6.28	-12,573.5	-403.1	822.7	618.0	204.78	4.018	
22,700.0	9,792.6	21,593.2	8,979.4	99.9	98.6	6.28	-12,663.5	-403.8	822.7	616.6	206.17	3.991	
22,705.0	9,792.6	21,598.2	8,979.4	99.9	98.6	6.28	-12,668.5	-403.9	822.7	616.5	206.25	3.989	
22,800.0	9,792.6	21,693.2	8,979.4	100.7	99.4	6.28	-12,763.5	-404.7	822.7	615.0	207.72	3.961	
22,895.0	9,792.7	21,788.2	8,979.5	101.4	100.1	6.28	-12,858.5	-405.4	822.7	613.5	209.19	3.933	
22,900.0	9,792.7	21,793.2	8,979.5	101.4	100.1	6.28	-12,863.5	-405.5	822.7	613.5	209.26	3.932	
22,990.0	9,792.7	21,883.2	8,979.5	102.1	100.8	6.28	-12,953.4	-406.2	822.7	612.1	210.66	3.905	
23,000.0	9,792.7	21,893.2	8,979.6	102.2	100.9	6.28	-12,963.4	-406.3	822.7	611.9	210.81	3.903	
23,085.0	9,792.8	21,978.2	8,979.6	102.8	101.5	6.28	-13,048.4	-407.0	822.7	610.6	212.12	3.878	
23,100.0	9,792.8	21,993.2	8,979.6	102.9	101.6	6.28	-13,063.4	-407.1	822.7	610.4	212.36	3.874	
23,180.0	9,792.8	22,073.2	8,979.7	103.5	102.2	6.28	-13,143.4	-407.8	822.7	609.1	213.59	3.852	
23,200.0	9,792.8	22,093.2	8,979.7	103.7	102.4	6.28	-13,163.4	-408.0	822.7	608.8	213.90	3.846	
23,275.0	9,792.9	22,168.2	8,979.7	104.2	102.9	6.28	-13,238.4	-408.6	822.7	607.6	215.06	3.825	
23,300.0	9,792.9	22,193.2	8,979.7	104.4	103.1	6.28	-13,263.4	-408.8	822.7	607.2	215.45	3.818	
23,370.0	9,792.9	22,263.2	8,979.8	105.0	103.7	6.28	-13,333.4	-409.4	822.7	606.2	216.53	3.799	
23,400.0	9,792.9	22,293.2	8,979.8	105.2	103.9	6.28	-13,363.4	-409.6	822.7	605.7	217.00	3.791	
23,465.0	9,793.0	22,358.2	8,979.8	105.7	104.4	6.28	-13,428.4	-410.1	822.7	604.7	218.00	3.774	
23,500.0	9,793.0	22,393.2	8,979.9	105.9	104.6	6.28	-13,463.4	-410.4	822.7	604.1	218.55	3.764	
23,560.0	9,793.0	22,453.2	8,979.9	106.4	105.1	6.28	-13,523.4	-410.9	822.7	603.2	219.47	3.748	
23,600.0	9,793.0	22,493.2	8,979.9	106.7	105.4	6.28	-13,563.4	-411.3	822.7	602.6	220.09	3.738	
23,655.0	9,793.1	22,548.2	8,979.9	107.1	105.8	6.28	-13,618.4	-411.7	822.7	601.7	220.95	3.723	
23,700.0	9,793.1	22,593.2	8,980.0	107.5	106.1	6.28	-13,663.4	-412.1	822.7	601.0	221.64	3.712	
23,750.0	9,793.1	22,643.2	8,980.0	107.8	106.5	6.28	-13,713.4	-412.5	822.7	600.2	222.42	3.699	
23,800.0	9,793.2	22,693.2	8,980.0	108.2	106.9	6.28	-13,763.4	-412.9	822.7	599.5	223.19	3.686	
23,845.0	9,793.2	22,738.2	8,980.1	108.6	107.2	6.28	-13,808.4	-413.3	822.6	598.8	223.89	3.674	
23,900.0	9,793.2	22,793.2	8,980.1	109.0	107.7	6.28	-13,863.4	-413.7	822.6	597.9	224.74	3.660	
23,940.0	9,793.2	22,833.2	8,980.1	109.3	108.0	6.28	-13,903.4	-414.1	822.6	597.3	225.36	3.650	
24,000.0	9,793.3	22,893.2	8,980.2	109.7	108.4	6.28	-13,963.4	-414.6	822.6	596.3	226.29	3.635	
24,035.0	9,793.3	22,928.2	8,980.2	110.0	108.7	6.28	-13,998.4	-414.9	822.6	595.8	226.83	3.627	
24,100.0	9,793.3	22,993.2	8,980.2	110.5	109.2	6.28	-14,063.4	-415.4	822.6	594.8	227.84	3.611	
24,130.0	9,793.3	23,023.2	8,980.2	110.7	109.4	6.28	-14,093.4	-415.6	822.6	594.3	228.30	3.603	
24,200.0	9,793.4	23,093.2	8,980.3	111.2	109.9	6.28	-14,163.4	-416.2	822.6	593.2	229.39	3.586	
24,225.0	9,793.4	23,118.2	8,980.3	111.4	110.1	6.28	-14,188.4	-416.4	822.6	592.8	229.78	3.580	
24,300.0	9,793.4	23,193.2	8,980.3	112.0	110.7	6.28	-14,263.4	-417.0	822.6	591.7	230.94	3.562	
24,320.0	9,793.4	23,213.2	8,980.3	112.2	110.8	6.28	-14,283.4	-417.2	822.6	591.4	231.25	3.557	
24,400.0	9,793.5	23,293.2	8,980.4	112.8	111.4	6.28	-14,363.4	-417.9	822.6	590.1	232.49	3.538	
24,415.0	9,793.5	23,308.2	8,980.4	112.9	111.5	6.28	-14,378.4	-418.0	822.6	589.9	232.72	3.535	
24,500.0	9,793.5	23,393.2	8,980.5	113.5	112.2	6.28	-14,463.4	-418.7	822.6	588.6	234.04	3.515	
24,510.0	9,793.5	23,403.2	8,980.5	113.6	112.3	6.28	-14,473.4	-418.8	822.6	588.4	234.19	3.512	
24,600.0	9,793.6	23,493.2	8,980.5	114.3	112.9	6.28	-14,563.4	-419.5	822.6	587.0	235.59	3.492	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
24,605.0	9,793.6	23,498.2	8,980.5	114.3	113.0	6.28	-14,568.4	-419.6	822.6	586.9	235.67	3.490	
24,700.0	9,793.6	23,593.2	8,980.6	115.0	113.7	6.28	-14,663.4	-420.3	822.6	585.4	237.14	3.469	
24,795.0	9,793.7	23,688.2	8,980.6	115.8	114.4	6.28	-14,758.4	-421.1	822.6	584.0	238.61	3.447	
24,800.0	9,793.7	23,693.2	8,980.6	115.8	114.5	6.28	-14,763.4	-421.2	822.6	583.9	238.69	3.446	
24,890.0	9,793.7	23,783.2	8,980.7	116.5	115.1	6.28	-14,853.4	-421.9	822.6	582.5	240.09	3.426	
24,900.0	9,793.7	23,793.2	8,980.7	116.6	115.2	6.28	-14,863.4	-422.0	822.6	582.3	240.24	3.424	
24,985.0	9,793.8	23,878.2	8,980.7	117.2	115.9	6.28	-14,948.4	-422.7	822.6	581.0	241.56	3.405	
25,000.0	9,793.8	23,893.2	8,980.8	117.3	116.0	6.28	-14,963.4	-422.8	822.6	580.8	241.79	3.402	
25,080.0	9,793.8	23,973.2	8,980.8	117.9	116.6	6.28	-15,043.4	-423.5	822.6	579.5	243.04	3.384	
25,100.0	9,793.8	23,993.2	8,980.8	118.1	116.7	6.28	-15,063.4	-423.7	822.6	579.2	243.35	3.380	
25,175.0	9,793.9	24,068.2	8,980.9	118.6	117.3	6.28	-15,138.4	-424.3	822.5	578.0	244.51	3.364	
25,200.0	9,793.9	24,093.2	8,980.9	118.8	117.5	6.28	-15,163.4	-424.5	822.5	577.6	244.90	3.359	
25,270.0	9,793.9	24,163.2	8,980.9	119.4	118.0	6.28	-15,233.4	-425.1	822.5	576.6	245.98	3.344	
25,278.2	9,793.9	24,171.3	8,980.9	119.4	118.1	6.28	-15,241.5	-425.1	822.5	576.4	246.11	3.342	
25,300.0	9,793.9	24,193.2	8,980.9	119.6	118.2	6.28	-15,263.4	-425.3	822.5	576.1	246.45	3.338	
25,365.0	9,794.0	24,258.2	8,981.0	120.1	118.7	6.28	-15,328.4	-425.8	822.5	575.1	247.46	3.324	
25,403.7	9,794.0	24,296.9	8,981.0	120.4	119.0	6.28	-15,367.1	-426.2	822.5	574.5	248.06	3.316	
25,408.3	9,794.0	24,298.5	8,981.0	120.4	119.0	6.28	-15,368.7	-426.2	822.5	574.4	248.11	3.315 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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.6	4.6	3.0	3.0	179.08	-150.0	2.4	150.0				
95.0	95.0	99.6	99.6	3.0	3.0	179.08	-150.0	2.4	150.0	144.0	6.04	24.845	
100.0	100.0	104.6	104.6	3.0	3.0	179.08	-150.0	2.4	150.0	144.0	6.04	24.819	
190.0	190.0	194.6	194.6	3.1	3.1	179.08	-150.0	2.4	150.0	143.8	6.27	23.941	
200.0	200.0	204.6	204.6	3.1	3.2	179.08	-150.0	2.4	150.0	143.7	6.30	23.819	
285.0	285.0	289.6	289.6	3.3	3.3	179.08	-150.0	2.4	150.0	143.5	6.51	23.052	
300.0	300.0	304.6	304.6	3.3	3.3	179.08	-150.0	2.4	150.0	143.5	6.55	22.909	
380.0	380.0	384.6	384.6	3.4	3.4	179.08	-150.0	2.4	150.0	143.3	6.74	22.242	
400.0	400.0	404.6	404.6	3.4	3.4	179.08	-150.0	2.4	150.0	143.2	6.80	22.072	
475.0	475.0	479.6	479.6	3.5	3.5	179.08	-150.0	2.4	150.0	143.0	6.98	21.494	
500.0	500.0	504.6	504.6	3.5	3.5	179.08	-150.0	2.4	150.0	143.0	7.04	21.299	
570.0	570.0	574.6	574.6	3.6	3.6	179.08	-150.0	2.4	150.0	142.8	7.21	20.798	
600.0	600.0	604.6	604.6	3.6	3.6	179.08	-150.0	2.4	150.0	142.7	7.29	20.583	
665.0	665.0	669.6	669.6	3.7	3.7	179.08	-150.0	2.4	150.0	142.6	7.45	20.149	
700.0	700.0	704.6	704.6	3.8	3.8	179.08	-150.0	2.4	150.0	142.5	7.53	19.917	
760.0	760.0	764.6	764.6	3.8	3.8	179.08	-150.0	2.4	150.0	142.3	7.68	19.543	
800.0	800.0	804.6	804.6	3.9	3.9	179.08	-150.0	2.4	150.0	142.2	7.77	19.296	
855.0	855.0	859.6	859.6	4.0	4.0	179.08	-150.0	2.4	150.0	142.1	7.91	18.975	
900.0	900.0	904.6	904.6	4.0	4.0	179.08	-150.0	2.4	150.0	142.0	8.02	18.715	
950.0	950.0	954.6	954.6	4.1	4.1	179.08	-150.0	2.4	150.0	141.9	8.14	18.441	
1,000.0	1,000.0	1,004.6	1,004.6	4.1	4.1	179.08	-150.0	2.4	150.0	141.8	8.26	18.170	
1,045.0	1,045.0	1,049.6	1,049.6	4.2	4.2	179.08	-150.0	2.4	150.0	141.7	8.36	17.938	
1,100.0	1,100.0	1,104.6	1,104.6	4.2	4.3	179.08	-150.0	2.4	150.0	141.5	8.50	17.658	
1,140.0	1,140.0	1,144.6	1,144.6	4.3	4.3	179.08	-150.0	2.4	150.0	141.4	8.59	17.463	
1,200.0	1,200.0	1,204.6	1,204.6	4.4	4.4	179.08	-150.0	2.4	150.0	141.3	8.73	17.175	
1,235.0	1,235.0	1,239.6	1,239.6	4.4	4.4	179.08	-150.0	2.4	150.0	141.2	8.82	17.014	
1,300.0	1,300.0	1,304.6	1,304.6	4.5	4.5	179.08	-150.0	2.4	150.0	141.0	8.97	16.720	
1,330.0	1,330.0	1,334.6	1,334.6	4.5	4.5	179.08	-150.0	2.4	150.0	141.0	9.04	16.589	
1,400.0	1,400.0	1,404.6	1,404.6	4.6	4.6	179.08	-150.0	2.4	150.0	140.8	9.21	16.290	
1,425.0	1,425.0	1,429.6	1,429.6	4.6	4.6	179.08	-150.0	2.4	150.0	140.8	9.27	16.186	
1,500.0	1,500.0	1,504.7	1,504.7	4.7	4.7	179.08	-150.0	2.4	150.0	140.6	9.45	15.882	
1,503.4	1,503.4	1,508.2	1,508.2	4.7	4.7	-156.46	-150.0	2.4	150.0	140.6	9.46	15.865 CC	
1,520.0	1,520.0	1,525.1	1,525.1	4.8	4.7	-156.43	-150.0	2.3	150.0	140.5	9.50	15.786 ES	
1,600.0	1,600.0	1,606.7	1,606.7	4.9	4.8	-156.03	-149.3	0.6	150.9	141.1	9.75	15.480	
1,615.0	1,615.0	1,622.0	1,622.0	4.9	4.9	-155.90	-149.0	0.0	151.2	141.4	9.81	15.413	
1,700.0	1,699.8	1,708.6	1,708.4	5.2	5.1	-154.87	-147.2	-4.7	153.6	143.5	10.16	15.127	
1,710.0	1,709.8	1,718.8	1,718.6	5.2	5.1	-154.72	-146.9	-5.4	154.0	143.8	10.20	15.103	
1,800.0	1,799.5	1,810.3	1,809.7	5.4	5.3	-153.08	-143.8	-13.2	158.3	147.8	10.56	14.989	
1,805.0	1,804.4	1,815.4	1,814.8	5.5	5.3	-152.98	-143.6	-13.7	158.6	148.0	10.58	14.987	
1,900.0	1,898.7	1,911.7	1,910.3	5.7	5.6	-150.78	-139.1	-25.0	165.2	154.2	10.97	15.060	
1,995.0	1,992.5	2,007.6	2,004.9	6.0	5.9	-148.24	-133.5	-39.3	173.8	162.5	11.35	15.313	
2,000.0	1,997.5	2,012.6	2,009.9	6.1	5.9	-148.10	-133.1	-40.1	174.3	163.0	11.37	15.332	
2,050.0	2,046.6	2,062.8	2,059.2	6.2	6.1	-146.67	-129.7	-48.8	179.8	168.3	11.51	15.621	
2,090.0	2,085.9	2,103.0	2,098.5	6.2	6.3	-145.50	-126.7	-56.4	184.4	172.8	11.62	15.871	
2,100.0	2,095.7	2,113.0	2,108.3	6.3	6.3	-145.19	-125.9	-58.3	185.6	173.9	11.65	15.933	
2,185.0	2,179.1	2,197.9	2,191.0	6.5	6.6	-142.32	-118.8	-76.2	195.3	183.4	11.93	16.366	
2,200.0	2,193.9	2,212.7	2,205.4	6.5	6.6	-141.78	-117.5	-79.6	197.0	185.0	11.98	16.443	
2,280.0	2,272.4	2,291.6	2,281.9	6.8	6.9	-139.06	-110.5	-97.3	206.5	194.3	12.25	16.859	
2,300.0	2,292.0	2,311.3	2,301.1	6.8	7.0	-138.42	-108.7	-101.7	209.0	196.6	12.32	16.966	
2,375.0	2,365.7	2,385.2	2,372.8	7.1	7.2	-136.15	-102.1	-118.4	218.3	205.8	12.58	17.362	
2,400.0	2,390.2	2,409.9	2,396.7	7.2	7.3	-135.43	-99.9	-123.9	221.5	208.9	12.66	17.496	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference Offset				Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,470.0	2,458.9	2,478.9	2,463.7	7.4	7.5	-133.53	-93.8	-139.4	230.7	217.7	12.91	17.866		
2,500.0	2,488.4	2,508.5	2,492.3	7.5	7.6	-132.77	-91.1	-146.1	234.6	221.6	13.02	18.026		
2,565.0	2,552.2	2,572.5	2,554.5	7.7	7.9	-131.19	-85.4	-160.5	243.4	230.2	13.25	18.365		
2,600.0	2,586.5	2,607.0	2,588.0	7.9	8.0	-130.38	-82.4	-168.3	248.2	234.8	13.38	18.547		
2,660.0	2,645.4	2,666.2	2,645.4	8.1	8.2	-129.08	-77.1	-181.6	256.5	242.9	13.61	18.852		
2,700.0	2,684.7	2,705.6	2,683.6	8.2	8.4	-128.25	-73.6	-190.4	262.1	248.4	13.76	19.054		
2,755.0	2,738.7	2,759.8	2,736.2	8.4	8.6	-127.17	-68.7	-202.6	270.0	256.0	13.97	19.324		
2,800.0	2,782.8	2,804.2	2,779.3	8.6	8.7	-126.33	-64.8	-212.6	276.4	262.3	14.14	19.543		
2,850.0	2,831.9	2,853.5	2,827.1	8.8	8.9	-125.44	-60.4	-223.7	283.6	269.3	14.34	19.779		
2,900.0	2,881.0	2,902.7	2,874.9	9.0	9.1	-124.60	-56.0	-234.8	290.9	276.4	14.54	20.012		
2,945.0	2,925.2	2,947.1	2,918.0	9.1	9.3	-123.88	-52.0	-244.8	297.6	282.8	14.72	20.214		
3,000.0	2,979.2	3,001.3	2,970.6	9.4	9.5	-123.04	-47.2	-257.0	305.7	290.8	14.94	20.458		
3,040.0	3,018.4	3,040.7	3,008.8	9.5	9.7	-122.45	-43.7	-265.8	311.7	296.6	15.11	20.629		
3,100.0	3,077.3	3,099.9	3,066.2	9.7	9.9	-121.62	-38.4	-279.1	320.7	305.3	15.36	20.882		
3,135.0	3,111.7	3,134.4	3,099.7	9.9	10.1	-121.15	-35.3	-286.9	326.0	310.5	15.51	21.024		
3,200.0	3,175.5	3,198.5	3,161.8	10.1	10.3	-120.32	-29.6	-301.3	335.9	320.1	15.78	21.284		
3,230.0	3,205.0	3,228.0	3,190.5	10.3	10.5	-119.96	-27.0	-308.0	340.4	324.5	15.91	21.399		
3,300.0	3,273.7	3,297.0	3,257.5	10.6	10.8	-119.14	-20.8	-323.5	351.2	335.0	16.21	21.663		
3,325.0	3,298.2	3,321.7	3,281.4	10.7	10.9	-118.86	-18.6	-329.0	355.0	338.7	16.32	21.754		
3,400.0	3,371.8	3,395.6	3,353.1	11.0	11.2	-118.06	-12.0	-345.6	366.6	350.0	16.65	22.021		
3,420.0	3,391.5	3,415.3	3,372.3	11.0	11.3	-117.85	-10.3	-350.1	369.7	353.0	16.74	22.090		
3,500.0	3,470.0	3,494.2	3,448.8	11.4	11.6	-117.06	-3.3	-367.8	382.2	365.1	17.09	22.358		
3,515.0	3,484.7	3,509.0	3,463.1	11.4	11.7	-116.92	-1.9	-371.1	384.5	367.4	17.16	22.407		
3,600.0	3,568.2	3,592.7	3,544.4	11.8	12.1	-116.14	5.5	-390.0	397.8	380.3	17.54	22.676		
3,610.0	3,578.0	3,602.6	3,554.0	11.8	12.1	-116.06	6.4	-392.2	399.4	381.8	17.59	22.707		
3,700.0	3,666.3	3,691.3	3,640.1	12.2	12.5	-115.29	14.3	-412.2	413.6	395.6	18.00	22.976		
3,705.0	3,671.2	3,696.2	3,644.8	12.2	12.5	-115.25	14.8	-413.3	414.4	396.4	18.02	22.990		
3,800.0	3,764.5	3,789.9	3,735.7	12.6	12.9	-114.51	23.1	-434.3	429.4	411.0	18.46	23.258		
3,895.0	3,857.7	3,883.5	3,826.6	13.1	13.4	-113.81	31.5	-455.4	444.6	425.7	18.91	23.511		
3,900.0	3,862.6	3,888.5	3,831.3	13.1	13.4	-113.78	31.9	-456.5	445.4	426.4	18.93	23.524		
3,990.0	3,951.0	3,977.2	3,917.4	13.5	13.8	-113.16	39.8	-476.5	459.7	440.4	19.36	23.750		
4,000.0	3,960.8	3,987.0	3,927.0	13.5	13.8	-113.10	40.7	-478.7	461.3	441.9	19.41	23.774		
4,085.0	4,044.2	4,070.8	4,008.3	13.9	14.2	-112.56	48.2	-497.5	475.0	455.2	19.81	23.979		
4,097.4	4,056.4	4,083.0	4,020.1	13.9	14.3	-112.48	49.3	-500.3	477.0	457.1	19.87	24.008		
4,100.0	4,059.0	4,085.6	4,022.6	13.9	14.3	-112.47	49.5	-500.9	477.4	457.5	19.88	24.016		
4,180.0	4,137.7	4,164.5	4,099.1	14.3	14.6	-112.10	56.5	-518.6	489.8	469.6	20.26	24.177		
4,200.0	4,157.5	4,184.2	4,118.3	14.4	14.7	-111.97	58.3	-523.0	492.8	472.5	20.36	24.210		
4,275.0	4,231.7	4,258.1	4,190.0	14.7	15.1	-111.37	64.9	-539.6	503.6	482.9	20.70	24.327		
4,300.0	4,256.5	4,282.7	4,213.8	14.8	15.2	-111.13	67.1	-545.2	507.1	486.3	20.82	24.359		
4,370.0	4,326.1	4,351.5	4,280.6	15.1	15.5	-110.35	73.2	-560.7	516.5	495.3	21.13	24.440		
4,400.0	4,356.0	4,381.0	4,309.2	15.3	15.6	-109.97	75.8	-567.3	520.3	499.1	21.27	24.467		
4,465.0	4,420.8	4,444.7	4,371.1	15.5	15.9	-109.06	81.5	-581.6	528.5	507.0	21.55	24.521		
4,500.0	4,455.7	4,479.0	4,404.3	15.6	16.1	-108.53	84.6	-589.3	532.8	511.1	21.71	24.542		
4,560.0	4,515.7	4,537.6	4,461.2	15.8	16.4	-107.53	89.8	-602.5	540.0	518.0	21.97	24.575		
4,600.0	4,555.6	4,576.5	4,499.0	16.0	16.5	-106.82	93.3	-611.3	544.7	522.6	22.16	24.587		
4,647.4	4,603.0	4,622.5	4,543.6	16.0	16.7	-130.38	97.4	-621.6	550.3	527.9	22.33	24.638		
4,655.0	4,610.6	4,630.0	4,550.8	16.0	16.8	-130.21	98.0	-623.3	551.1	528.8	22.36	24.648		
4,700.0	4,655.6	4,675.6	4,595.1	16.1	17.0	-129.21	102.0	-633.4	556.4	533.9	22.54	24.686		
4,750.0	4,705.6	4,726.8	4,644.9	16.1	17.2	-128.16	106.4	-644.4	562.3	539.5	22.78	24.686		
4,800.0	4,755.6	4,778.2	4,695.0	16.1	17.5	-127.16	110.6	-655.0	568.0	545.0	23.02	24.671		
4,845.0	4,800.6	4,824.6	4,740.4	16.1	17.7	-126.30	114.2	-664.2	573.2	549.9	23.25	24.650		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		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	
4,900.0	4,855.6	4,881.6	4,796.1	16.2	17.9	-125.32	118.5	-675.1	579.3	555.8	23.53	24.615		
4,940.0	4,895.6	4,923.1	4,836.9	16.2	18.1	-124.64	121.6	-682.7	583.7	560.0	23.74	24.586		
5,000.0	4,955.6	4,985.7	4,898.4	16.2	18.4	-123.69	125.9	-693.6	590.1	566.1	24.05	24.533		
5,035.0	4,990.6	5,022.3	4,934.4	16.2	18.6	-123.17	128.3	-699.7	593.7	569.5	24.23	24.500		
5,100.0	5,055.6	5,090.6	5,001.7	16.3	18.9	-122.26	132.6	-710.5	600.2	575.7	24.57	24.429		
5,130.0	5,085.6	5,122.2	5,032.8	16.3	19.0	-121.86	134.5	-715.2	603.1	578.4	24.72	24.394		
5,200.0	5,155.6	5,196.1	5,105.9	16.3	19.3	-121.01	138.6	-725.7	609.6	584.5	25.08	24.305		
5,225.0	5,180.6	5,222.6	5,132.1	16.4	19.4	-120.73	140.0	-729.2	611.8	586.6	25.21	24.272		
5,300.0	5,255.6	5,302.2	5,211.0	16.4	19.8	-119.94	143.9	-739.2	618.0	592.5	25.58	24.166		
5,320.0	5,275.6	5,323.5	5,232.1	16.4	19.8	-119.74	144.9	-741.7	619.6	593.9	25.67	24.137		
5,400.0	5,355.6	5,408.8	5,316.8	16.5	20.2	-119.03	148.6	-750.9	625.5	599.5	26.05	24.012		
5,415.0	5,370.6	5,424.8	5,332.8	16.5	20.3	-118.91	149.2	-752.5	626.5	600.4	26.12	23.989		
5,500.0	5,455.6	5,515.8	5,423.3	16.5	20.6	-118.28	152.5	-760.8	631.9	605.4	26.50	23.847		
5,510.0	5,465.6	5,526.5	5,434.0	16.5	20.7	-118.21	152.9	-761.7	632.5	605.9	26.54	23.830		
5,600.0	5,555.6	5,623.2	5,530.3	16.6	21.0	-117.68	155.7	-768.9	637.2	610.3	26.92	23.672		
5,605.0	5,560.6	5,628.6	5,535.7	16.6	21.0	-117.65	155.9	-769.3	637.4	610.5	26.94	23.663		
5,700.0	5,655.6	5,730.9	5,637.8	16.6	21.4	-117.22	158.2	-775.2	641.3	614.0	27.30	23.489		
5,795.0	5,750.6	5,833.4	5,740.2	16.7	21.7	-116.92	159.9	-779.4	644.0	616.4	27.63	23.311		
5,800.0	5,755.6	5,838.8	5,745.6	16.7	21.8	-116.91	160.0	-779.6	644.2	616.5	27.64	23.302		
5,890.0	5,845.6	5,936.0	5,842.8	16.7	22.0	-116.74	160.9	-781.9	645.7	617.8	27.91	23.135		
5,900.0	5,855.6	5,946.8	5,853.6	16.8	22.1	-116.73	160.9	-782.1	645.8	617.9	27.94	23.117		
5,985.0	5,940.6	6,038.4	5,945.2	16.8	22.2	-116.68	161.2	-782.7	646.2	618.1	28.11	22.989		
6,000.0	5,955.6	6,053.4	5,960.2	16.8	22.2	-116.68	161.2	-782.7	646.2	618.1	28.13	22.974		
6,080.0	6,035.6	6,133.4	6,040.2	16.9	22.3	-116.68	161.2	-782.7	646.2	618.0	28.23	22.890		
6,100.0	6,055.6	6,153.4	6,060.2	16.9	22.3	-116.68	161.2	-782.7	646.2	618.0	28.26	22.867		
6,175.0	6,130.6	6,228.4	6,135.2	16.9	22.3	-116.68	161.2	-782.7	646.2	617.9	28.37	22.782		
6,200.0	6,155.6	6,253.4	6,160.2	16.9	22.3	-116.68	161.2	-782.7	646.2	617.8	28.40	22.754		
6,270.0	6,225.6	6,323.4	6,230.2	17.0	22.3	-116.68	161.2	-782.7	646.2	617.7	28.50	22.675		
6,300.0	6,255.6	6,353.4	6,260.2	17.0	22.3	-116.68	161.2	-782.7	646.2	617.7	28.54	22.642		
6,365.0	6,320.6	6,418.4	6,325.2	17.0	22.4	-116.68	161.2	-782.7	646.2	617.6	28.63	22.569		
6,400.0	6,355.6	6,453.4	6,360.2	17.0	22.4	-116.68	161.2	-782.7	646.2	617.5	28.68	22.531		
6,460.0	6,415.6	6,513.4	6,420.2	17.1	22.4	-116.68	161.2	-782.7	646.2	617.5	28.77	22.464		
6,500.0	6,455.6	6,553.4	6,460.2	17.1	22.4	-116.68	161.2	-782.7	646.2	617.4	28.82	22.420		
6,555.0	6,510.6	6,608.4	6,515.2	17.1	22.4	-116.68	161.2	-782.7	646.2	617.3	28.90	22.360		
6,600.0	6,555.6	6,653.4	6,560.2	17.2	22.5	-116.68	161.2	-782.7	646.2	617.3	28.96	22.311		
6,650.0	6,605.6	6,703.4	6,610.2	17.2	22.5	-116.68	161.2	-782.7	646.2	617.2	29.03	22.257		
6,700.0	6,655.6	6,753.4	6,660.2	17.2	22.5	-116.68	161.2	-782.7	646.2	617.1	29.11	22.203		
6,745.0	6,700.6	6,798.4	6,705.2	17.3	22.5	-116.68	161.2	-782.7	646.2	617.1	29.17	22.155		
6,800.0	6,755.6	6,853.4	6,760.2	17.3	22.5	-116.68	161.2	-782.7	646.2	617.0	29.25	22.096		
6,840.0	6,795.6	6,893.4	6,800.2	17.3	22.6	-116.68	161.2	-782.7	646.2	616.9	29.30	22.053		
6,900.0	6,855.6	6,953.4	6,860.2	17.4	22.6	-116.68	161.2	-782.7	646.2	616.8	29.39	21.990		
6,935.0	6,890.6	6,988.4	6,895.2	17.4	22.6	-116.68	161.2	-782.7	646.2	616.8	29.44	21.953		
7,000.0	6,955.6	7,053.4	6,960.2	17.4	22.6	-116.68	161.2	-782.7	646.2	616.7	29.53	21.884		
7,030.0	6,985.6	7,083.4	6,990.2	17.4	22.6	-116.68	161.2	-782.7	646.2	616.7	29.57	21.853		
7,100.0	7,055.6	7,153.4	7,060.2	17.5	22.7	-116.68	161.2	-782.7	646.2	616.6	29.67	21.780		
7,125.0	7,080.6	7,178.4	7,085.2	17.5	22.7	-116.68	161.2	-782.7	646.2	616.5	29.71	21.754		
7,200.0	7,155.6	7,253.4	7,160.2	17.5	22.7	-116.68	161.2	-782.7	646.2	616.4	29.81	21.677		
7,220.0	7,175.6	7,273.4	7,180.2	17.6	22.7	-116.68	161.2	-782.7	646.2	616.4	29.84	21.656		
7,300.0	7,255.6	7,353.4	7,260.2	17.6	22.7	-116.68	161.2	-782.7	646.2	616.3	29.95	21.574		
7,315.0	7,270.6	7,368.4	7,275.2	17.6	22.7	-116.68	161.2	-782.7	646.2	616.3	29.97	21.559		
7,400.0	7,355.6	7,453.4	7,360.2	17.7	22.8	-116.68	161.2	-782.7	646.2	616.1	30.10	21.473		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,410.0	7,365.6	7,463.4	7,370.2	17.7	22.8	-116.68	161.2	-782.7	646.2	616.1	30.11	21.462		
7,500.0	7,455.6	7,553.4	7,460.2	17.7	22.8	-116.68	161.2	-782.7	646.2	616.0	30.24	21.372		
7,505.0	7,460.6	7,558.4	7,465.2	17.7	22.8	-116.68	161.2	-782.7	646.2	616.0	30.24	21.367		
7,600.0	7,555.6	7,653.4	7,560.2	17.8	22.9	-116.68	161.2	-782.7	646.2	615.8	30.38	21.272		
7,695.0	7,650.6	7,748.4	7,655.2	17.8	22.9	-116.68	161.2	-782.7	646.2	615.7	30.51	21.178		
7,700.0	7,655.6	7,753.4	7,660.2	17.8	22.9	-116.68	161.2	-782.7	646.2	615.7	30.52	21.173		
7,790.0	7,745.6	7,843.4	7,750.2	17.9	22.9	-116.68	161.2	-782.7	646.2	615.6	30.65	21.085		
7,800.0	7,755.6	7,853.4	7,760.2	17.9	22.9	-116.68	161.2	-782.7	646.2	615.6	30.66	21.075		
7,885.0	7,840.6	7,938.4	7,845.2	18.0	23.0	-116.68	161.2	-782.7	646.2	615.4	30.78	20.992		
7,900.0	7,855.6	7,953.4	7,860.2	18.0	23.0	-116.68	161.2	-782.7	646.2	615.4	30.81	20.977		
7,980.0	7,935.6	8,033.4	7,940.2	18.0	23.0	-116.68	161.2	-782.7	646.2	615.3	30.92	20.900		
8,000.0	7,955.6	8,053.4	7,960.2	18.0	23.0	-116.68	161.2	-782.7	646.2	615.3	30.95	20.881		
8,075.0	8,030.6	8,128.4	8,035.2	18.1	23.1	-116.68	161.2	-782.7	646.2	615.2	31.05	20.809		
8,100.0	8,055.6	8,153.4	8,060.2	18.1	23.1	-116.68	161.2	-782.7	646.2	615.1	31.09	20.785		
8,170.0	8,125.6	8,223.4	8,130.2	18.1	23.1	-116.68	161.2	-782.7	646.2	615.0	31.19	20.719		
8,200.0	8,155.6	8,253.4	8,160.2	18.2	23.1	-116.68	161.2	-782.7	646.2	615.0	31.23	20.690		
8,265.0	8,220.6	8,318.4	8,225.2	18.2	23.1	-116.68	161.2	-782.7	646.2	614.9	31.33	20.629		
8,300.0	8,255.6	8,353.4	8,260.2	18.2	23.2	-116.68	161.2	-782.7	646.2	614.8	31.38	20.596		
8,360.0	8,315.6	8,413.4	8,320.2	18.3	23.2	-116.68	161.2	-782.7	646.2	614.8	31.46	20.542		
8,400.0	8,355.6	8,453.4	8,360.2	18.3	23.2	-116.68	161.2	-782.7	646.2	614.7	31.51	20.509		
8,404.2	8,359.9	8,457.7	8,364.5	18.3	23.2	-116.68	161.2	-782.7	646.2	614.7	31.52	20.505		
8,455.0	8,410.6	8,500.0	8,406.8	18.3	23.2	-116.70	161.0	-782.7	646.4	614.8	31.60	20.453		
8,500.0	8,455.6	8,529.5	8,436.2	18.4	23.2	-116.83	159.3	-782.7	647.5	615.8	31.70	20.425		
8,550.0	8,505.6	8,582.1	8,468.6	18.4	23.2	-117.11	155.8	-782.7	650.0	618.3	31.79	20.448		
8,600.0	8,555.6	8,600.0	8,506.0	18.4	23.2	-117.61	149.3	-782.8	654.0	622.1	31.83	20.548		
8,645.0	8,600.6	8,622.5	8,527.9	18.4	23.2	-118.00	144.4	-782.8	658.6	626.7	31.91	20.641		
8,700.0	8,655.6	8,650.0	8,554.5	18.5	23.2	-118.55	137.1	-782.9	666.0	634.0	31.99	20.818		
8,740.0	8,695.6	8,679.9	8,582.9	18.5	23.3	-119.26	127.8	-783.0	672.5	640.5	31.98	21.027		
8,800.0	8,755.6	8,714.2	8,614.8	18.5	23.3	-120.19	115.3	-783.1	684.1	652.1	32.02	21.365		
8,835.0	8,790.6	8,733.5	8,632.4	18.6	23.3	-120.77	107.4	-783.1	691.9	659.9	32.04	21.596		
8,900.0	8,855.6	8,767.7	8,663.0	18.6	23.3	-121.87	92.0	-783.3	708.6	676.5	32.08	22.088		
8,930.0	8,885.6	8,782.8	8,676.1	18.6	23.3	-122.39	84.7	-783.3	717.3	685.2	32.10	22.342		
9,000.0	8,955.6	8,816.3	8,704.6	18.7	23.3	-123.61	67.1	-783.5	739.8	707.6	32.17	22.998		
9,025.0	8,980.6	8,827.7	8,714.1	18.7	23.3	-124.04	60.8	-783.5	748.6	716.5	32.20	23.253		
9,100.0	9,055.6	8,850.0	8,732.3	18.7	23.3	-124.91	47.8	-783.6	777.8	745.4	32.36	24.035		
9,120.0	9,075.6	8,868.2	8,746.7	18.8	23.3	-125.64	36.7	-783.7	786.0	753.7	32.32	24.317		
9,200.0	9,155.6	8,900.0	8,771.0	18.8	23.3	-126.95	16.2	-783.9	822.0	789.5	32.46	25.324		
9,215.0	9,170.6	8,900.0	8,771.0	18.8	23.3	-126.95	16.2	-783.9	829.2	796.7	32.52	25.498		
9,257.4	9,213.0	8,919.6	8,785.4	18.8	23.3	-127.78	2.9	-784.0	850.2	817.6	32.57	26.102		
9,300.0	9,255.6	8,934.5	8,796.1	18.9	23.4	49.26	-7.5	-784.1	871.5	839.0	32.56	26.768		
9,310.0	9,265.6	8,950.0	8,806.9	18.9	23.4	48.27	-18.6	-784.2	876.6	844.1	32.51	26.964		
9,350.0	9,305.2	8,950.0	8,806.9	18.9	23.4	46.68	-18.6	-784.2	895.5	862.8	32.71	27.379		
9,400.0	9,354.2	8,970.5	8,820.7	19.0	23.4	44.25	-33.8	-784.3	918.3	885.4	32.86	27.945		
9,405.0	9,359.0	8,972.3	8,821.9	19.0	23.4	44.03	-35.2	-784.3	920.5	887.6	32.88	27.997		
9,450.0	9,402.0	9,000.0	8,839.5	19.1	23.4	41.90	-56.5	-784.5	939.8	906.8	32.99	28.490		
9,500.0	9,448.5	9,000.0	8,839.5	19.1	23.4	40.50	-56.5	-784.5	959.4	926.1	33.31	28.804		
9,550.0	9,493.1	9,026.6	8,855.6	19.2	23.4	38.77	-77.7	-784.7	977.4	943.9	33.50	29.175		
9,595.0	9,531.4	9,050.0	8,868.8	19.2	23.4	37.46	-97.0	-784.8	992.1	958.4	33.69	29.444		
9,600.0	9,535.6	9,050.0	8,868.8	19.3	23.4	37.37	-97.0	-784.8	993.6	959.9	33.73	29.455		
9,650.0	9,575.6	9,065.0	8,876.9	19.3	23.4	36.29	-109.6	-784.9	1,007.9	973.8	34.03	29.614		
9,690.0	9,605.7	9,080.5	8,884.9	19.4	23.5	35.52	-122.9	-785.0	1,017.9	983.6	34.27	29.703		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft					
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
9,700.0	9,612.9	9,084.4	8,886.8	19.4	23.5	35.35	-126.3	-785.1	1,020.2	985.9	34.33	29.718			
9,750.0	9,647.2	9,100.0	8,894.4	19.4	23.5	34.62	-139.9	-785.2	1,030.5	995.8	34.66	29.727			
9,785.0	9,669.2	9,117.7	8,902.5	19.5	23.5	34.16	-155.6	-785.3	1,036.4	1,001.5	34.87	29.721			
9,800.0	9,678.1	9,123.5	8,905.1	19.5	23.5	34.00	-160.8	-785.4	1,038.6	1,003.6	34.97	29.699			
9,850.0	9,705.5	9,150.0	8,916.2	19.6	23.5	33.56	-184.9	-785.6	1,044.6	1,009.3	35.27	29.616			
9,880.0	9,720.2	9,150.0	8,916.2	19.6	23.5	33.42	-184.9	-785.6	1,047.1	1,011.6	35.56	29.451			
9,900.0	9,729.1	9,150.0	8,916.2	19.6	23.5	33.34	-184.9	-785.6	1,048.6	1,012.8	35.75	29.333			
9,950.0	9,748.9	9,182.6	8,928.2	19.6	23.5	33.21	-215.2	-785.8	1,050.0	1,013.9	36.04	29.134			
9,975.0	9,757.2	9,200.0	8,933.9	19.7	23.6	33.21	-231.6	-785.9	1,050.0	1,013.8	36.18	29.020			
10,000.0	9,764.5	9,200.0	8,933.9	19.7	23.6	33.24	-231.6	-785.9	1,049.4	1,012.9	36.43	28.802			
10,050.0	9,776.0	9,222.1	8,940.5	19.7	23.6	33.44	-252.7	-786.1	1,046.5	1,009.7	36.81	28.431			
10,070.0	9,779.3	9,230.0	8,942.6	19.7	23.6	33.56	-260.3	-786.2	1,044.8	1,007.8	36.97	28.262			
10,100.0	9,783.1	9,250.0	8,947.6	19.7	23.6	33.83	-279.7	-786.3	1,041.6	1,004.5	37.16	28.034			
10,150.0	9,786.0	9,250.0	8,947.6	19.8	23.6	34.23	-279.7	-786.3	1,034.5	996.8	37.68	27.452			
10,157.1	9,786.0	9,250.0	8,947.6	19.8	23.6	34.29	-279.7	-786.3	1,033.4	995.6	37.76	27.371			
10,165.0	9,786.0	9,267.3	8,951.3	19.8	23.6	34.41	-296.6	-786.5	1,031.8	994.1	37.72	27.352			
10,200.0	9,786.0	9,281.1	8,953.9	19.8	23.6	34.49	-310.1	-786.6	1,026.4	988.4	37.98	27.021			
10,260.0	9,786.1	9,300.0	8,957.0	19.8	23.7	34.59	-328.8	-786.8	1,018.6	980.1	38.48	26.470			
10,300.0	9,786.1	9,321.2	8,959.6	19.8	23.7	34.68	-349.8	-786.9	1,014.6	975.8	38.76	26.175			
10,355.0	9,786.1	9,350.0	8,962.0	19.9	23.7	34.75	-378.5	-787.2	1,010.6	971.5	39.16	25.806			
10,400.0	9,786.1	9,361.8	8,962.6	19.9	23.7	34.77	-390.3	-787.3	1,008.6	969.1	39.56	25.497			
10,450.0	9,786.2	9,382.9	8,963.0	19.9	23.8	34.78	-411.4	-787.4	1,007.9	967.9	39.96	25.224			
10,469.6	9,786.2	9,401.1	8,963.0	19.9	23.8	34.78	-429.6	-787.6	1,007.9	967.8	40.04	25.169			
10,500.0	9,786.2	9,431.4	8,963.0	19.9	23.8	34.78	-459.9	-787.8	1,007.8	967.7	40.17	25.089			
10,545.0	9,786.2	9,476.4	8,963.1	20.0	23.9	34.78	-504.9	-788.2	1,007.8	967.5	40.37	24.964			
10,600.0	9,786.2	9,531.4	8,963.1	20.0	24.0	34.79	-559.9	-788.7	1,007.8	967.2	40.63	24.807			
10,640.0	9,786.3	9,571.4	8,963.1	20.0	24.1	34.79	-599.9	-789.0	1,007.8	967.0	40.83	24.684			
10,700.0	9,786.3	9,631.4	8,963.2	20.1	24.2	34.79	-659.9	-789.5	1,007.8	966.7	41.14	24.498			
10,735.0	9,786.3	9,666.4	8,963.2	20.1	24.2	34.79	-694.9	-789.8	1,007.8	966.5	41.33	24.383			
10,800.0	9,786.3	9,731.4	8,963.2	20.2	24.4	34.79	-759.9	-790.3	1,007.8	966.1	41.70	24.168			
10,830.0	9,786.4	9,761.4	8,963.3	20.2	24.4	34.79	-789.9	-790.6	1,007.8	965.9	41.88	24.063			
10,900.0	9,786.4	9,831.4	8,963.3	20.3	24.6	34.79	-859.9	-791.1	1,007.8	965.5	42.31	23.818			
10,925.0	9,786.4	9,856.4	8,963.3	20.3	24.6	34.79	-884.9	-791.4	1,007.8	965.3	42.47	23.727			
11,000.0	9,786.4	9,931.4	8,963.4	20.4	24.8	34.79	-959.9	-792.0	1,007.8	964.8	42.97	23.453			
11,020.0	9,786.5	9,951.4	8,963.4	20.4	24.8	34.79	-979.9	-792.1	1,007.8	964.7	43.11	23.377			
11,100.0	9,786.5	10,031.4	8,963.4	20.5	25.0	34.79	-1,059.9	-792.8	1,007.8	964.1	43.67	23.075			
11,115.0	9,786.5	10,046.4	8,963.4	20.6	25.1	34.79	-1,074.9	-792.9	1,007.8	964.0	43.79	23.016			
11,200.0	9,786.5	10,131.4	8,963.5	20.7	25.3	34.79	-1,159.9	-793.6	1,007.8	963.3	44.42	22.687			
11,210.0	9,786.6	10,141.4	8,963.5	20.7	25.3	34.79	-1,169.9	-793.7	1,007.8	963.3	44.50	22.647			
11,300.0	9,786.6	10,231.4	8,963.6	20.9	25.6	34.79	-1,259.9	-794.5	1,007.8	962.5	45.21	22.291			
11,305.0	9,786.6	10,236.4	8,963.6	20.9	25.6	34.79	-1,264.9	-794.5	1,007.7	962.5	45.25	22.271			
11,400.0	9,786.7	10,331.4	8,963.6	21.1	25.9	34.79	-1,359.9	-795.3	1,007.7	961.7	46.04	21.891			
11,495.0	9,786.7	10,426.4	8,963.7	21.4	26.2	34.79	-1,454.9	-796.1	1,007.7	960.9	46.85	21.507			
11,500.0	9,786.7	10,431.4	8,963.7	21.4	26.2	34.79	-1,459.9	-796.1	1,007.7	960.8	46.90	21.487			
11,590.0	9,786.8	10,521.4	8,963.8	21.6	26.5	34.79	-1,549.9	-796.8	1,007.7	960.0	47.71	21.124			
11,600.0	9,786.8	10,531.4	8,963.8	21.7	26.5	34.79	-1,559.9	-796.9	1,007.7	959.9	47.80	21.083			
11,685.0	9,786.8	10,616.4	8,963.8	21.9	26.8	34.79	-1,644.9	-797.6	1,007.7	959.1	48.59	20.741			
11,700.0	9,786.8	10,631.4	8,963.8	22.0	26.9	34.79	-1,659.9	-797.8	1,007.7	959.0	48.73	20.680			
11,780.0	9,786.9	10,711.4	8,963.9	22.3	27.2	34.79	-1,739.9	-798.4	1,007.7	958.2	49.49	20.360			
11,800.0	9,786.9	10,731.4	8,963.9	22.4	27.3	34.79	-1,759.9	-798.6	1,007.7	958.0	49.69	20.280			
11,875.0	9,786.9	10,806.4	8,964.0	22.7	27.5	34.79	-1,834.9	-799.2	1,007.7	957.2	50.43	19.982			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,900.0	9,786.9	10,831.4	8,964.0	22.8	27.6	34.79	-1,859.9	-799.4	1,007.7	957.0	50.68	19.883	
11,970.0	9,787.0	10,901.4	8,964.0	23.1	27.9	34.79	-1,929.9	-800.0	1,007.7	956.3	51.39	19.608	
12,000.0	9,787.0	10,931.4	8,964.0	23.2	28.0	34.79	-1,959.9	-800.2	1,007.7	956.0	51.70	19.491	
12,065.0	9,787.0	10,996.4	8,964.1	23.5	28.3	34.79	-2,024.9	-800.8	1,007.7	955.3	52.38	19.239	
12,100.0	9,787.0	11,031.4	8,964.1	23.7	28.4	34.79	-2,059.9	-801.1	1,007.7	954.9	52.74	19.105	
12,160.0	9,787.0	11,091.4	8,964.1	24.0	28.7	34.79	-2,119.9	-801.6	1,007.6	954.3	53.38	18.876	
12,200.0	9,787.1	11,131.4	8,964.2	24.2	28.9	34.79	-2,159.9	-801.9	1,007.6	953.8	53.81	18.725	
12,255.0	9,787.1	11,186.4	8,964.2	24.5	29.1	34.79	-2,214.9	-802.3	1,007.6	953.2	54.41	18.519	
12,300.0	9,787.1	11,231.4	8,964.2	24.7	29.3	34.79	-2,259.9	-802.7	1,007.6	952.7	54.91	18.352	
12,350.0	9,787.1	11,281.4	8,964.3	25.0	29.5	34.79	-2,309.9	-803.1	1,007.6	952.2	55.46	18.168	
12,400.0	9,787.2	11,331.4	8,964.3	25.3	29.8	34.79	-2,359.9	-803.5	1,007.6	951.6	56.02	17.987	
12,445.0	9,787.2	11,376.4	8,964.3	25.6	30.0	34.79	-2,404.9	-803.9	1,007.6	951.1	56.53	17.825	
12,500.0	9,787.2	11,431.4	8,964.4	25.9	30.2	34.79	-2,459.9	-804.4	1,007.6	950.4	57.15	17.630	
12,540.0	9,787.2	11,471.4	8,964.4	26.1	30.4	34.79	-2,499.9	-804.7	1,007.6	950.0	57.61	17.489	
12,600.0	9,787.3	11,531.4	8,964.4	26.5	30.7	34.79	-2,559.9	-805.2	1,007.6	949.3	58.31	17.280	
12,635.0	9,787.3	11,566.4	8,964.5	26.7	30.9	34.79	-2,594.9	-805.5	1,007.6	948.9	58.72	17.160	
12,700.0	9,787.3	11,631.4	8,964.5	27.0	31.2	34.79	-2,659.9	-806.0	1,007.6	948.1	59.48	16.940	
12,730.0	9,787.3	11,661.4	8,964.5	27.2	31.3	34.79	-2,689.9	-806.3	1,007.6	947.7	59.84	16.839	
12,800.0	9,787.4	11,731.4	8,964.6	27.7	31.7	34.79	-2,759.8	-806.9	1,007.6	946.9	60.67	16.607	
12,825.0	9,787.4	11,756.4	8,964.6	27.8	31.8	34.79	-2,784.8	-807.1	1,007.6	946.6	60.97	16.526	
12,900.0	9,787.4	11,831.4	8,964.6	28.3	32.2	34.80	-2,859.8	-807.7	1,007.6	945.7	61.87	16.284	
12,920.0	9,787.4	11,851.4	8,964.7	28.4	32.3	34.80	-2,879.8	-807.8	1,007.5	945.4	62.12	16.220	
13,000.0	9,787.5	11,931.4	8,964.7	28.9	32.7	34.80	-2,959.8	-808.5	1,007.5	944.4	63.10	15.969	
13,015.0	9,787.5	11,946.4	8,964.7	29.0	32.8	34.80	-2,974.8	-808.6	1,007.5	944.3	63.28	15.922	
13,100.0	9,787.5	12,031.4	8,964.8	29.5	33.3	34.80	-3,059.8	-809.3	1,007.5	943.2	64.33	15.662	
13,110.0	9,787.5	12,041.4	8,964.8	29.6	33.3	34.80	-3,069.8	-809.4	1,007.5	943.1	64.45	15.632	
13,200.0	9,787.6	12,131.4	8,964.8	30.2	33.8	34.80	-3,159.8	-810.2	1,007.5	941.9	65.58	15.363	
13,205.0	9,787.6	12,136.4	8,964.8	30.2	33.8	34.80	-3,164.8	-810.2	1,007.5	941.9	65.64	15.349	
13,300.0	9,787.6	12,231.4	8,964.9	30.8	34.3	34.80	-3,259.8	-811.0	1,007.5	940.7	66.84	15.073	
13,395.0	9,787.7	12,326.4	8,965.0	31.5	34.9	34.80	-3,354.8	-811.8	1,007.5	939.4	68.05	14.805	
13,400.0	9,787.7	12,331.4	8,965.0	31.5	34.9	34.80	-3,359.8	-811.8	1,007.5	939.4	68.11	14.791	
13,490.0	9,787.7	12,421.4	8,965.0	32.1	35.4	34.80	-3,449.8	-812.6	1,007.5	938.2	69.27	14.544	
13,500.0	9,787.8	12,431.4	8,965.0	32.2	35.5	34.80	-3,459.8	-812.6	1,007.5	938.1	69.40	14.517	
13,585.0	9,787.8	12,516.4	8,965.1	32.7	36.0	34.80	-3,544.8	-813.3	1,007.5	937.0	70.50	14.290	
13,600.0	9,787.8	12,531.4	8,965.1	32.8	36.0	34.80	-3,559.8	-813.5	1,007.5	936.8	70.69	14.251	
13,680.0	9,787.8	12,611.4	8,965.2	33.4	36.5	34.80	-3,639.8	-814.1	1,007.5	935.7	71.74	14.044	
13,700.0	9,787.9	12,631.4	8,965.2	33.5	36.6	34.80	-3,659.8	-814.3	1,007.5	935.5	72.00	13.992	
13,775.0	9,787.9	12,706.4	8,965.2	34.0	37.1	34.80	-3,734.8	-814.9	1,007.4	934.5	72.99	13.803	
13,800.0	9,787.9	12,731.4	8,965.2	34.2	37.2	34.80	-3,759.8	-815.1	1,007.4	934.1	73.32	13.741	
13,870.0	9,787.9	12,801.4	8,965.3	34.7	37.6	34.80	-3,829.8	-815.7	1,007.4	933.2	74.24	13.570	
13,900.0	9,788.0	12,831.4	8,965.3	34.9	37.8	34.80	-3,859.8	-815.9	1,007.4	932.8	74.64	13.497	
13,965.0	9,788.0	12,896.4	8,965.4	35.3	38.2	34.80	-3,924.8	-816.5	1,007.4	931.9	75.51	13.342	
14,000.0	9,788.0	12,931.4	8,965.4	35.6	38.4	34.80	-3,959.8	-816.8	1,007.4	931.4	75.97	13.260	
14,060.0	9,788.0	12,991.4	8,965.4	36.0	38.8	34.80	-4,019.8	-817.3	1,007.4	930.6	76.78	13.121	
14,100.0	9,788.1	13,031.4	8,965.4	36.3	39.0	34.80	-4,059.8	-817.6	1,007.4	930.1	77.32	13.030	
14,155.0	9,788.1	13,086.4	8,965.5	36.6	39.3	34.80	-4,114.8	-818.1	1,007.4	929.3	78.06	12.906	
14,200.0	9,788.1	13,131.4	8,965.5	37.0	39.6	34.80	-4,159.8	-818.4	1,007.4	928.7	78.67	12.806	
14,250.0	9,788.1	13,181.4	8,965.5	37.3	39.9	34.80	-4,209.8	-818.8	1,007.4	928.0	79.34	12.697	
14,300.0	9,788.2	13,231.4	8,965.6	37.7	40.2	34.80	-4,259.8	-819.3	1,007.4	927.4	80.02	12.589	
14,345.0	9,788.2	13,276.4	8,965.6	38.0	40.5	34.80	-4,304.8	-819.6	1,007.4	926.7	80.64	12.493	
14,400.0	9,788.2	13,331.4	8,965.6	38.4	40.9	34.80	-4,359.8	-820.1	1,007.4	926.0	81.39	12.378	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,440.0	9,788.2	13,371.4	8,965.7	38.6	41.1	34.80	-4,399.8	-820.4	1,007.4	925.4	81.93	12.295	
14,500.0	9,788.3	13,431.4	8,965.7	39.1	41.5	34.80	-4,459.8	-820.9	1,007.4	924.6	82.76	12.172	
14,535.0	9,788.3	13,466.4	8,965.7	39.3	41.7	34.80	-4,494.8	-821.2	1,007.3	924.1	83.24	12.102	
14,600.0	9,788.3	13,531.4	8,965.8	39.8	42.1	34.80	-4,559.8	-821.7	1,007.3	923.2	84.13	11.973	
14,630.0	9,788.3	13,561.4	8,965.8	40.0	42.3	34.80	-4,589.8	-822.0	1,007.3	922.8	84.55	11.914	
14,700.0	9,788.4	13,631.4	8,965.8	40.5	42.7	34.80	-4,659.8	-822.6	1,007.3	921.8	85.52	11.779	
14,725.0	9,788.4	13,656.4	8,965.9	40.6	42.9	34.80	-4,684.8	-822.8	1,007.3	921.5	85.86	11.732	
14,800.0	9,788.4	13,731.4	8,965.9	41.2	43.4	34.80	-4,759.8	-823.4	1,007.3	920.4	86.91	11.591	
14,820.0	9,788.4	13,751.4	8,965.9	41.3	43.5	34.80	-4,779.8	-823.6	1,007.3	920.1	87.19	11.554	
14,900.0	9,788.5	13,831.4	8,966.0	41.9	44.0	34.80	-4,859.8	-824.2	1,007.3	919.0	88.30	11.408	
14,915.0	9,788.5	13,846.4	8,966.0	42.0	44.1	34.80	-4,874.8	-824.3	1,007.3	918.8	88.51	11.380	
15,000.0	9,788.5	13,931.4	8,966.0	42.6	44.7	34.80	-4,959.8	-825.0	1,007.3	917.6	89.70	11.229	
15,010.0	9,788.5	13,941.4	8,966.1	42.7	44.7	34.80	-4,969.8	-825.1	1,007.3	917.4	89.84	11.212	
15,100.0	9,788.6	14,031.4	8,966.1	43.3	45.3	34.80	-5,059.8	-825.9	1,007.3	916.2	91.11	11.056	
15,105.0	9,788.6	14,036.4	8,966.1	43.4	45.4	34.80	-5,064.8	-825.9	1,007.3	916.1	91.18	11.048	
15,200.0	9,788.6	14,131.4	8,966.2	44.0	46.0	34.80	-5,159.8	-826.7	1,007.3	914.8	92.52	10.887	
15,295.0	9,788.7	14,226.4	8,966.2	44.7	46.6	34.81	-5,254.8	-827.5	1,007.3	913.4	93.86	10.732	
15,300.0	9,788.7	14,231.4	8,966.2	44.8	46.7	34.81	-5,259.8	-827.5	1,007.3	913.3	93.93	10.723	
15,390.0	9,788.7	14,321.4	8,966.3	45.4	47.2	34.81	-5,349.8	-828.3	1,007.2	912.0	95.21	10.580	
15,400.0	9,788.7	14,331.4	8,966.3	45.5	47.3	34.81	-5,359.8	-828.4	1,007.2	911.9	95.35	10.564	
15,485.0	9,788.8	14,416.4	8,966.4	46.1	47.9	34.81	-5,444.8	-829.1	1,007.2	910.7	96.56	10.431	
15,500.0	9,788.8	14,431.4	8,966.4	46.2	48.0	34.81	-5,459.8	-829.2	1,007.2	910.5	96.77	10.408	
15,580.0	9,788.8	14,511.4	8,966.4	46.8	48.5	34.81	-5,539.8	-829.8	1,007.2	909.3	97.91	10.287	
15,600.0	9,788.9	14,531.4	8,966.4	46.9	48.6	34.81	-5,559.8	-830.0	1,007.2	909.0	98.20	10.257	
15,675.0	9,788.9	14,606.4	8,966.5	47.5	49.2	34.81	-5,634.8	-830.6	1,007.2	907.9	99.27	10.146	
15,700.0	9,788.9	14,631.4	8,966.5	47.6	49.3	34.81	-5,659.7	-830.8	1,007.2	907.6	99.63	10.110	
15,770.0	9,788.9	14,701.4	8,966.6	48.2	49.8	34.81	-5,729.7	-831.4	1,007.2	906.6	100.63	10.009	
15,800.0	9,789.0	14,731.4	8,966.6	48.4	50.0	34.81	-5,759.7	-831.7	1,007.2	906.1	101.06	9.966	
15,865.0	9,789.0	14,796.4	8,966.6	48.8	50.4	34.81	-5,824.7	-832.2	1,007.2	905.2	102.00	9.875	
15,900.0	9,789.0	14,831.4	8,966.6	49.1	50.7	34.81	-5,859.7	-832.5	1,007.2	904.7	102.50	9.826	
15,960.0	9,789.0	14,891.4	8,966.7	49.5	51.1	34.81	-5,919.7	-833.0	1,007.2	903.8	103.37	9.744	
16,000.0	9,789.1	14,931.4	8,966.7	49.8	51.4	34.81	-5,959.7	-833.3	1,007.2	903.2	103.94	9.690	
16,055.0	9,789.1	14,986.4	8,966.8	50.2	51.7	34.81	-6,014.7	-833.8	1,007.2	902.4	104.74	9.616	
16,100.0	9,789.1	15,031.4	8,966.8	50.6	52.0	34.81	-6,059.7	-834.1	1,007.2	901.8	105.39	9.557	
16,150.0	9,789.1	15,081.4	8,966.8	50.9	52.4	34.81	-6,109.7	-834.6	1,007.1	901.0	106.11	9.492	
16,200.0	9,789.2	15,131.4	8,966.8	51.3	52.7	34.81	-6,159.7	-835.0	1,007.1	900.3	106.83	9.427	
16,245.0	9,789.2	15,176.4	8,966.9	51.6	53.0	34.81	-6,204.7	-835.3	1,007.1	899.7	107.49	9.370	
16,300.0	9,789.2	15,231.4	8,966.9	52.0	53.4	34.81	-6,259.7	-835.8	1,007.1	898.8	108.28	9.301	
16,340.0	9,789.2	15,271.4	8,966.9	52.3	53.7	34.81	-6,299.7	-836.1	1,007.1	898.3	108.87	9.251	
16,400.0	9,789.3	15,331.4	8,967.0	52.8	54.1	34.81	-6,359.7	-836.6	1,007.1	897.4	109.74	9.177	
16,435.0	9,789.3	15,366.4	8,967.0	53.0	54.3	34.81	-6,394.7	-836.9	1,007.1	896.9	110.25	9.135	
16,500.0	9,789.3	15,431.4	8,967.0	53.5	54.8	34.81	-6,459.7	-837.4	1,007.1	895.9	111.19	9.057	
16,530.0	9,789.3	15,461.4	8,967.1	53.7	55.0	34.81	-6,489.7	-837.7	1,007.1	895.5	111.63	9.022	
16,600.0	9,789.4	15,531.4	8,967.1	54.2	55.5	34.81	-6,559.7	-838.3	1,007.1	894.4	112.65	8.940	
16,625.0	9,789.4	15,556.4	8,967.1	54.4	55.7	34.81	-6,584.7	-838.5	1,007.1	894.1	113.02	8.911	
16,700.0	9,789.4	15,631.4	8,967.2	55.0	56.2	34.81	-6,659.7	-839.1	1,007.1	893.0	114.11	8.825	
16,720.0	9,789.4	15,651.4	8,967.2	55.1	56.3	34.81	-6,679.7	-839.3	1,007.1	892.7	114.41	8.803	
16,800.0	9,789.5	15,731.4	8,967.2	55.7	56.9	34.81	-6,759.7	-839.9	1,007.1	891.5	115.58	8.713	
16,815.0	9,789.5	15,746.4	8,967.3	55.8	57.0	34.81	-6,774.7	-840.1	1,007.1	891.3	115.80	8.697	
16,900.0	9,789.5	15,831.4	8,967.3	56.4	57.6	34.81	-6,859.7	-840.8	1,007.1	890.0	117.04	8.604	
16,910.0	9,789.5	15,841.4	8,967.3	56.5	57.6	34.81	-6,869.7	-840.8	1,007.1	889.9	117.19	8.593	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,000.0	9,789.6	15,931.4	8,967.4	57.2	58.3	34.81	-6,959.7	-841.6	1,007.0	888.5	118.51	8.497	
17,005.0	9,789.6	15,936.4	8,967.4	57.2	58.3	34.81	-6,964.7	-841.6	1,007.0	888.5	118.59	8.492	
17,100.0	9,789.6	16,031.4	8,967.4	57.9	59.0	34.81	-7,059.7	-842.4	1,007.0	887.0	119.98	8.393	
17,195.0	9,789.7	16,126.4	8,967.5	58.6	59.6	34.81	-7,154.7	-843.2	1,007.0	885.6	121.38	8.296	
17,200.0	9,789.7	16,131.4	8,967.5	58.6	59.7	34.81	-7,159.7	-843.2	1,007.0	885.6	121.46	8.291	
17,290.0	9,789.7	16,221.4	8,967.6	59.3	60.3	34.81	-7,249.7	-844.0	1,007.0	884.2	122.78	8.202	
17,300.0	9,789.7	16,231.4	8,967.6	59.4	60.4	34.81	-7,259.7	-844.1	1,007.0	884.1	122.93	8.192	
17,385.0	9,789.8	16,316.4	8,967.6	60.0	61.0	34.81	-7,344.7	-844.8	1,007.0	882.8	124.19	8.109	
17,400.0	9,789.8	16,331.4	8,967.7	60.1	61.1	34.81	-7,359.7	-844.9	1,007.0	882.6	124.41	8.094	
17,480.0	9,789.8	16,411.4	8,967.7	60.7	61.7	34.81	-7,439.7	-845.6	1,007.0	881.4	125.59	8.018	
17,500.0	9,789.9	16,431.4	8,967.7	60.9	61.8	34.81	-7,459.7	-845.7	1,007.0	881.1	125.89	7.999	
17,575.0	9,789.9	16,506.4	8,967.8	61.4	62.3	34.82	-7,534.7	-846.3	1,007.0	880.0	127.00	7.929	
17,600.0	9,789.9	16,531.4	8,967.8	61.6	62.5	34.82	-7,559.7	-846.5	1,007.0	879.6	127.37	7.906	
17,670.0	9,789.9	16,601.4	8,967.8	62.1	63.0	34.82	-7,629.7	-847.1	1,007.0	878.6	128.40	7.842	
17,700.0	9,790.0	16,631.4	8,967.9	62.4	63.2	34.82	-7,659.7	-847.4	1,007.0	878.1	128.85	7.815	
17,765.0	9,790.0	16,696.4	8,967.9	62.8	63.7	34.82	-7,724.7	-847.9	1,006.9	877.1	129.81	7.757	
17,800.0	9,790.0	16,731.4	8,967.9	63.1	63.9	34.82	-7,759.7	-848.2	1,006.9	876.6	130.33	7.726	
17,860.0	9,790.0	16,791.4	8,968.0	63.5	64.4	34.82	-7,819.7	-848.7	1,006.9	875.7	131.22	7.674	
17,900.0	9,790.1	16,831.4	8,968.0	63.8	64.6	34.82	-7,859.7	-849.0	1,006.9	875.1	131.82	7.639	
17,955.0	9,790.1	16,886.4	8,968.0	64.3	65.0	34.82	-7,914.7	-849.5	1,006.9	874.3	132.63	7.592	
18,000.0	9,790.1	16,931.4	8,968.1	64.6	65.4	34.82	-7,959.7	-849.9	1,006.9	873.6	133.30	7.554	
18,050.0	9,790.1	16,981.4	8,968.1	65.0	65.7	34.82	-8,009.7	-850.3	1,006.9	872.9	134.05	7.512	
18,100.0	9,790.2	17,031.4	8,968.1	65.3	66.1	34.82	-8,059.7	-850.7	1,006.9	872.1	134.79	7.470	
18,145.0	9,790.2	17,076.4	8,968.1	65.7	66.4	34.82	-8,104.7	-851.1	1,006.9	871.4	135.46	7.433	
18,200.0	9,790.2	17,131.4	8,968.2	66.1	66.8	34.82	-8,159.7	-851.5	1,006.9	870.6	136.28	7.388	
18,240.0	9,790.2	17,171.4	8,968.2	66.4	67.1	34.82	-8,199.7	-851.8	1,006.9	870.0	136.88	7.356	
18,300.0	9,790.3	17,231.4	8,968.3	66.8	67.5	34.82	-8,259.7	-852.3	1,006.9	869.1	137.77	7.308	
18,335.0	9,790.3	17,266.4	8,968.3	67.1	67.8	34.82	-8,294.7	-852.6	1,006.9	868.6	138.30	7.281	
18,400.0	9,790.3	17,331.4	8,968.3	67.6	68.2	34.82	-8,359.7	-853.2	1,006.9	867.6	139.27	7.230	
18,430.0	9,790.3	17,361.4	8,968.3	67.8	68.4	34.82	-8,389.7	-853.4	1,006.9	867.2	139.71	7.207	
18,500.0	9,790.4	17,431.4	8,968.4	68.3	68.9	34.82	-8,459.7	-854.0	1,006.9	866.1	140.76	7.153	
18,525.0	9,790.4	17,456.4	8,968.4	68.5	69.1	34.82	-8,484.7	-854.2	1,006.9	865.7	141.13	7.134	
18,600.0	9,790.4	17,531.4	8,968.5	69.1	69.7	34.82	-8,559.7	-854.8	1,006.8	864.6	142.26	7.078	
18,620.0	9,790.4	17,551.4	8,968.5	69.2	69.8	34.82	-8,579.6	-855.0	1,006.8	864.3	142.55	7.063	
18,700.0	9,790.5	17,631.4	8,968.5	69.8	70.4	34.82	-8,659.6	-855.6	1,006.8	863.1	143.75	7.004	
18,715.0	9,790.5	17,646.4	8,968.5	69.9	70.5	34.82	-8,674.6	-855.8	1,006.8	862.9	143.98	6.993	
18,800.0	9,790.5	17,731.4	8,968.6	70.6	71.1	34.82	-8,759.6	-856.5	1,006.8	861.6	145.25	6.932	
18,810.0	9,790.5	17,741.4	8,968.6	70.6	71.2	34.82	-8,769.6	-856.5	1,006.8	861.4	145.40	6.925	
18,900.0	9,790.6	17,831.4	8,968.7	71.3	71.8	34.82	-8,859.6	-857.3	1,006.8	860.1	146.75	6.861	
18,905.0	9,790.6	17,836.4	8,968.7	71.3	71.9	34.82	-8,864.6	-857.3	1,006.8	860.0	146.82	6.857	
19,000.0	9,790.6	17,931.4	8,968.7	72.0	72.6	34.82	-8,959.6	-858.1	1,006.8	858.5	148.25	6.791	
19,095.0	9,790.7	18,026.4	8,968.8	72.8	73.2	34.82	-9,054.6	-858.9	1,006.8	857.1	149.68	6.726	
19,100.0	9,790.7	18,031.4	8,968.8	72.8	73.3	34.82	-9,059.6	-858.9	1,006.8	857.0	149.75	6.723	
19,190.0	9,790.7	18,121.4	8,968.8	73.5	73.9	34.82	-9,149.6	-859.7	1,006.8	855.7	151.10	6.663	
19,200.0	9,790.7	18,131.4	8,968.9	73.5	74.0	34.82	-9,159.6	-859.8	1,006.8	855.5	151.25	6.656	
19,285.0	9,790.8	18,216.4	8,968.9	74.2	74.6	34.82	-9,244.6	-860.5	1,006.8	854.2	152.53	6.600	
19,300.0	9,790.8	18,231.4	8,968.9	74.3	74.7	34.82	-9,259.6	-860.6	1,006.8	854.0	152.76	6.591	
19,380.0	9,790.8	18,311.4	8,969.0	74.9	75.3	34.82	-9,339.6	-861.3	1,006.7	852.8	153.96	6.539	
19,400.0	9,790.8	18,331.4	8,969.0	75.0	75.5	34.82	-9,359.6	-861.4	1,006.7	852.5	154.26	6.526	
19,475.0	9,790.9	18,406.4	8,969.0	75.6	76.0	34.82	-9,434.6	-862.0	1,006.7	851.3	155.39	6.479	
19,500.0	9,790.9	18,431.4	8,969.1	75.8	76.2	34.82	-9,459.6	-862.3	1,006.7	851.0	155.77	6.463	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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	
19,570.0	9,790.9	18,501.4	8,969.1	76.3	76.7	34.82	-9,529.6	-862.8	1,006.7	849.9	156.82	6.420	
19,600.0	9,791.0	18,531.4	8,969.1	76.5	76.9	34.82	-9,559.6	-863.1	1,006.7	849.4	157.27	6.401	
19,665.0	9,791.0	18,596.4	8,969.2	77.0	77.4	34.82	-9,624.6	-863.6	1,006.7	848.5	158.25	6.361	
19,700.0	9,791.0	18,631.4	8,969.2	77.3	77.6	34.82	-9,659.6	-863.9	1,006.7	847.9	158.78	6.340	
19,760.0	9,791.0	18,691.4	8,969.2	77.7	78.1	34.82	-9,719.6	-864.4	1,006.7	847.0	159.68	6.304	
19,800.0	9,791.1	18,731.4	8,969.3	78.0	78.4	34.82	-9,759.6	-864.7	1,006.7	846.4	160.29	6.281	
19,855.0	9,791.1	18,786.4	8,969.3	78.5	78.8	34.83	-9,814.6	-865.2	1,006.7	845.6	161.12	6.248	
19,900.0	9,791.1	18,831.4	8,969.3	78.8	79.1	34.83	-9,859.6	-865.6	1,006.7	844.9	161.80	6.222	
19,950.0	9,791.1	18,881.4	8,969.4	79.2	79.5	34.83	-9,909.6	-866.0	1,006.7	844.1	162.55	6.193	
20,000.0	9,791.2	18,931.4	8,969.4	79.5	79.8	34.83	-9,959.6	-866.4	1,006.7	843.4	163.31	6.164	
20,045.0	9,791.2	18,976.4	8,969.4	79.9	80.2	34.83	-10,004.6	-866.8	1,006.7	842.7	163.99	6.139	
20,100.0	9,791.2	19,031.4	8,969.5	80.3	80.6	34.83	-10,059.6	-867.2	1,006.7	841.8	164.82	6.108	
20,140.0	9,791.2	19,071.4	8,969.5	80.6	80.9	34.83	-10,099.6	-867.5	1,006.7	841.2	165.42	6.085	
20,200.0	9,791.3	19,131.4	8,969.5	81.0	81.3	34.83	-10,159.6	-868.0	1,006.6	840.3	166.33	6.052	
20,235.0	9,791.3	19,166.4	8,969.5	81.3	81.6	34.83	-10,194.6	-868.3	1,006.6	839.8	166.86	6.033	
20,300.0	9,791.3	19,231.4	8,969.6	81.8	82.0	34.83	-10,259.6	-868.9	1,006.6	838.8	167.84	5.998	
20,330.0	9,791.3	19,261.4	8,969.6	82.0	82.3	34.83	-10,289.6	-869.1	1,006.6	838.3	168.30	5.981	
20,400.0	9,791.4	19,331.4	8,969.7	82.6	82.8	34.83	-10,359.6	-869.7	1,006.6	837.3	169.36	5.944	
20,425.0	9,791.4	19,356.4	8,969.7	82.7	83.0	34.83	-10,384.6	-869.9	1,006.6	836.9	169.73	5.931	
20,500.0	9,791.4	19,431.4	8,969.7	83.3	83.5	34.83	-10,459.6	-870.5	1,006.6	835.7	170.87	5.891	
20,520.0	9,791.4	19,451.4	8,969.7	83.5	83.7	34.83	-10,479.6	-870.7	1,006.6	835.4	171.17	5.881	
20,600.0	9,791.5	19,531.4	8,969.8	84.1	84.2	34.83	-10,559.6	-871.3	1,006.6	834.2	172.38	5.839	
20,615.0	9,791.5	19,546.4	8,969.8	84.2	84.4	34.83	-10,574.6	-871.5	1,006.6	834.0	172.61	5.832	
20,700.0	9,791.5	19,631.4	8,969.9	84.8	85.0	34.83	-10,659.6	-872.2	1,006.6	832.7	173.90	5.788	
20,710.0	9,791.5	19,641.4	8,969.9	84.9	85.1	34.83	-10,669.6	-872.3	1,006.6	832.5	174.05	5.783	
20,800.0	9,791.6	19,731.4	8,969.9	85.6	85.7	34.83	-10,759.6	-873.0	1,006.6	831.2	175.42	5.738	
20,805.0	9,791.6	19,736.4	8,969.9	85.6	85.7	34.83	-10,764.6	-873.0	1,006.6	831.1	175.49	5.736	
20,900.0	9,791.6	19,831.4	8,970.0	86.3	86.4	34.83	-10,859.6	-873.8	1,006.6	829.6	176.93	5.689	
20,995.0	9,791.7	19,926.4	8,970.1	87.0	87.1	34.83	-10,954.6	-874.6	1,006.5	828.2	178.37	5.643	
21,000.0	9,791.7	19,931.4	8,970.1	87.1	87.2	34.83	-10,959.6	-874.7	1,006.5	828.1	178.45	5.641	
21,090.0	9,791.7	20,021.4	8,970.1	87.7	87.9	34.83	-11,049.6	-875.4	1,006.5	826.7	179.82	5.598	
21,100.0	9,791.7	20,031.4	8,970.1	87.8	87.9	34.83	-11,059.6	-875.5	1,006.5	826.6	179.97	5.593	
21,185.0	9,791.8	20,116.4	8,970.2	88.5	88.6	34.83	-11,144.6	-876.2	1,006.5	825.3	181.26	5.553	
21,200.0	9,791.8	20,131.4	8,970.2	88.6	88.7	34.83	-11,159.6	-876.3	1,006.5	825.0	181.49	5.546	
21,280.0	9,791.8	20,211.4	8,970.2	89.2	89.3	34.83	-11,239.6	-877.0	1,006.5	823.8	182.70	5.509	
21,300.0	9,791.8	20,231.4	8,970.3	89.3	89.4	34.83	-11,259.6	-877.1	1,006.5	823.5	183.00	5.500	
21,375.0	9,791.9	20,306.4	8,970.3	89.9	90.0	34.83	-11,334.6	-877.8	1,006.5	822.4	184.14	5.466	
21,400.0	9,791.9	20,331.4	8,970.3	90.1	90.1	34.83	-11,359.6	-878.0	1,006.5	822.0	184.52	5.455	
21,470.0	9,791.9	20,401.4	8,970.4	90.6	90.7	34.83	-11,429.6	-878.5	1,006.5	820.9	185.59	5.423	
21,500.0	9,791.9	20,431.4	8,970.4	90.8	90.9	34.83	-11,459.6	-878.8	1,006.5	820.4	186.05	5.410	
21,565.0	9,792.0	20,496.4	8,970.4	91.3	91.4	34.83	-11,524.5	-879.3	1,006.5	819.4	187.03	5.381	
21,600.0	9,792.0	20,531.4	8,970.5	91.6	91.6	34.83	-11,559.5	-879.6	1,006.5	818.9	187.57	5.366	
21,660.0	9,792.0	20,591.4	8,970.5	92.0	92.1	34.83	-11,619.5	-880.1	1,006.5	818.0	188.48	5.340	
21,700.0	9,792.1	20,631.4	8,970.5	92.3	92.4	34.83	-11,659.5	-880.4	1,006.5	817.4	189.09	5.323	
21,755.0	9,792.1	20,686.4	8,970.6	92.8	92.8	34.83	-11,714.5	-880.9	1,006.5	816.5	189.92	5.299	
21,800.0	9,792.1	20,731.4	8,970.6	93.1	93.1	34.83	-11,759.5	-881.3	1,006.5	815.8	190.61	5.280	
21,850.0	9,792.1	20,781.4	8,970.6	93.5	93.5	34.83	-11,809.5	-881.7	1,006.4	815.1	191.37	5.259	
21,900.0	9,792.2	20,831.4	8,970.7	93.9	93.8	34.83	-11,859.5	-882.1	1,006.4	814.3	192.13	5.238	
21,945.0	9,792.2	20,876.4	8,970.7	94.2	94.2	34.83	-11,904.5	-882.5	1,006.4	813.6	192.82	5.220	
22,000.0	9,792.2	20,931.4	8,970.7	94.6	94.6	34.83	-11,959.5	-882.9	1,006.4	812.8	193.66	5.197	
22,040.0	9,792.2	20,971.4	8,970.8	94.9	94.9	34.83	-11,999.5	-883.3	1,006.4	812.2	194.26	5.181	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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	
22,100.0	9,792.3	21,031.4	8,970.8	95.4	95.3	34.83	-12,059.5	-883.8	1,006.4	811.2	195.18	5.156	
22,135.0	9,792.3	21,066.4	8,970.8	95.6	95.6	34.83	-12,094.5	-884.0	1,006.4	810.7	195.71	5.142	
22,200.0	9,792.3	21,131.4	8,970.9	96.1	96.1	34.84	-12,159.5	-884.6	1,006.4	809.7	196.70	5.116	
22,230.0	9,792.3	21,161.4	8,970.9	96.3	96.3	34.84	-12,189.5	-884.8	1,006.4	809.2	197.16	5.104	
22,300.0	9,792.4	21,231.4	8,970.9	96.9	96.8	34.84	-12,259.5	-885.4	1,006.4	808.2	198.23	5.077	
22,325.0	9,792.4	21,256.4	8,970.9	97.1	97.0	34.84	-12,284.5	-885.6	1,006.4	807.8	198.61	5.067	
22,400.0	9,792.4	21,331.4	8,971.0	97.6	97.6	34.84	-12,359.5	-886.2	1,006.4	806.6	199.75	5.038	
22,420.0	9,792.4	21,351.4	8,971.0	97.8	97.7	34.84	-12,379.5	-886.4	1,006.4	806.3	200.06	5.030	
22,500.0	9,792.5	21,431.4	8,971.1	98.4	98.3	34.84	-12,459.5	-887.1	1,006.4	805.1	201.28	5.000	
22,515.0	9,792.5	21,446.4	8,971.1	98.5	98.4	34.84	-12,474.5	-887.2	1,006.4	804.9	201.51	4.994	
22,600.0	9,792.5	21,531.4	8,971.1	99.1	99.0	34.84	-12,559.5	-887.9	1,006.4	803.5	202.80	4.962	
22,610.0	9,792.5	21,541.4	8,971.1	99.2	99.1	34.84	-12,569.5	-888.0	1,006.3	803.4	202.96	4.958	
22,700.0	9,792.6	21,631.4	8,971.2	99.9	99.8	34.84	-12,659.5	-888.7	1,006.3	802.0	204.33	4.925	
22,705.0	9,792.6	21,636.4	8,971.2	99.9	99.8	34.84	-12,664.5	-888.8	1,006.3	801.9	204.41	4.923	
22,800.0	9,792.6	21,731.4	8,971.3	100.7	100.5	34.84	-12,759.5	-889.5	1,006.3	800.5	205.86	4.888	
22,895.0	9,792.7	21,826.4	8,971.3	101.4	101.2	34.84	-12,854.5	-890.3	1,006.3	799.0	207.31	4.854	
22,900.0	9,792.7	21,831.4	8,971.3	101.4	101.3	34.84	-12,859.5	-890.4	1,006.3	798.9	207.38	4.852	
22,990.0	9,792.7	21,921.4	8,971.4	102.1	101.9	34.84	-12,949.5	-891.1	1,006.3	797.5	208.76	4.820	
23,000.0	9,792.7	21,931.4	8,971.4	102.2	102.0	34.84	-12,959.5	-891.2	1,006.3	797.4	208.91	4.817	
23,085.0	9,792.8	22,016.4	8,971.5	102.8	102.6	34.84	-13,044.5	-891.9	1,006.3	796.1	210.21	4.787	
23,100.0	9,792.8	22,031.4	8,971.5	102.9	102.8	34.84	-13,059.5	-892.0	1,006.3	795.8	210.44	4.782	
23,180.0	9,792.8	22,111.4	8,971.5	103.5	103.4	34.84	-13,139.5	-892.7	1,006.3	794.6	211.66	4.754	
23,200.0	9,792.8	22,131.4	8,971.5	103.7	103.5	34.84	-13,159.5	-892.8	1,006.3	794.3	211.97	4.747	
23,275.0	9,792.9	22,206.4	8,971.6	104.2	104.1	34.84	-13,234.5	-893.5	1,006.3	793.2	213.11	4.722	
23,300.0	9,792.9	22,231.4	8,971.6	104.4	104.2	34.84	-13,259.5	-893.7	1,006.3	792.8	213.50	4.713	
23,370.0	9,792.9	22,301.4	8,971.6	105.0	104.8	34.84	-13,329.5	-894.3	1,006.3	791.7	214.57	4.690	
23,400.0	9,792.9	22,331.4	8,971.7	105.2	105.0	34.84	-13,359.5	-894.5	1,006.3	791.2	215.03	4.680	
23,465.0	9,793.0	22,396.4	8,971.7	105.7	105.5	34.84	-13,424.5	-895.0	1,006.2	790.2	216.02	4.658	
23,500.0	9,793.0	22,431.4	8,971.7	105.9	105.7	34.84	-13,459.5	-895.3	1,006.2	789.7	216.56	4.647	
23,560.0	9,793.0	22,491.4	8,971.8	106.4	106.2	34.84	-13,519.5	-895.8	1,006.2	788.8	217.47	4.627	
23,600.0	9,793.0	22,531.4	8,971.8	106.7	106.5	34.84	-13,559.5	-896.2	1,006.2	788.1	218.08	4.614	
23,655.0	9,793.1	22,586.4	8,971.8	107.1	106.9	34.84	-13,614.5	-896.6	1,006.2	787.3	218.93	4.596	
23,700.0	9,793.1	22,631.4	8,971.9	107.5	107.2	34.84	-13,659.5	-897.0	1,006.2	786.6	219.62	4.582	
23,750.0	9,793.1	22,681.4	8,971.9	107.8	107.6	34.84	-13,709.5	-897.4	1,006.2	785.8	220.38	4.566	
23,800.0	9,793.2	22,731.4	8,971.9	108.2	108.0	34.84	-13,759.5	-897.8	1,006.2	785.1	221.15	4.550	
23,845.0	9,793.2	22,776.4	8,972.0	108.6	108.3	34.84	-13,804.5	-898.2	1,006.2	784.4	221.83	4.536	
23,900.0	9,793.2	22,831.4	8,972.0	109.0	108.7	34.84	-13,859.5	-898.6	1,006.2	783.5	222.68	4.519	
23,940.0	9,793.2	22,871.4	8,972.0	109.3	109.0	34.84	-13,899.5	-899.0	1,006.2	782.9	223.29	4.506	
24,000.0	9,793.3	22,931.4	8,972.1	109.7	109.5	34.84	-13,959.5	-899.5	1,006.2	782.0	224.21	4.488	
24,035.0	9,793.3	22,966.4	8,972.1	110.0	109.7	34.84	-13,994.5	-899.8	1,006.2	781.4	224.74	4.477	
24,100.0	9,793.3	23,031.4	8,972.1	110.5	110.2	34.84	-14,059.5	-900.3	1,006.2	780.4	225.74	4.457	
24,130.0	9,793.3	23,061.4	8,972.2	110.7	110.4	34.84	-14,089.5	-900.5	1,006.2	780.0	226.20	4.448	
24,200.0	9,793.4	23,131.4	8,972.2	111.2	111.0	34.84	-14,159.5	-901.1	1,006.2	778.9	227.27	4.427	
24,225.0	9,793.4	23,156.4	8,972.2	111.4	111.2	34.84	-14,184.5	-901.3	1,006.1	778.5	227.65	4.420	
24,300.0	9,793.4	23,231.4	8,972.3	112.0	111.7	34.84	-14,259.5	-901.9	1,006.1	777.3	228.80	4.397	
24,320.0	9,793.4	23,251.4	8,972.3	112.2	111.9	34.84	-14,279.5	-902.1	1,006.1	777.0	229.11	4.392	
24,400.0	9,793.5	23,331.4	8,972.3	112.8	112.5	34.84	-14,359.5	-902.8	1,006.1	775.8	230.34	4.368	
24,415.0	9,793.5	23,346.4	8,972.3	112.9	112.6	34.84	-14,374.4	-902.9	1,006.1	775.6	230.57	4.364	
24,500.0	9,793.5	23,431.4	8,972.4	113.5	113.2	34.85	-14,459.4	-903.6	1,006.1	774.2	231.87	4.339	
24,510.0	9,793.5	23,441.4	8,972.4	113.6	113.3	34.85	-14,469.4	-903.7	1,006.1	774.1	232.02	4.336	
24,600.0	9,793.6	23,531.4	8,972.5	114.3	114.0	34.85	-14,559.4	-904.4	1,006.1	772.7	233.40	4.311	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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	
24,605.0	9,793.6	23,536.4	8,972.5	114.3	114.0	34.85	-14,564.4	-904.5	1,006.1	772.6	233.48	4.309		
24,700.0	9,793.6	23,631.4	8,972.5	115.0	114.7	34.85	-14,659.4	-905.3	1,006.1	771.2	234.93	4.282		
24,795.0	9,793.7	23,726.4	8,972.6	115.8	115.4	34.85	-14,754.4	-906.0	1,006.1	769.7	236.39	4.256		
24,800.0	9,793.7	23,731.4	8,972.6	115.8	115.5	34.85	-14,759.4	-906.1	1,006.1	769.6	236.47	4.255		
24,890.0	9,793.7	23,821.4	8,972.7	116.5	116.1	34.85	-14,849.4	-906.8	1,006.1	768.2	237.85	4.230		
24,900.0	9,793.7	23,831.4	8,972.7	116.6	116.2	34.85	-14,859.4	-906.9	1,006.1	768.1	238.00	4.227		
24,985.0	9,793.8	23,916.4	8,972.7	117.2	116.8	34.85	-14,944.4	-907.6	1,006.1	766.8	239.31	4.204		
25,000.0	9,793.8	23,931.4	8,972.7	117.3	117.0	34.85	-14,959.4	-907.7	1,006.1	766.5	239.54	4.200		
25,080.0	9,793.8	24,011.4	8,972.8	117.9	117.6	34.85	-15,039.4	-908.4	1,006.0	765.3	240.76	4.179		
25,100.0	9,793.8	24,031.4	8,972.8	118.1	117.7	34.85	-15,059.4	-908.6	1,006.0	765.0	241.07	4.173		
25,175.0	9,793.9	24,106.4	8,972.9	118.6	118.3	34.85	-15,134.4	-909.2	1,006.0	763.8	242.22	4.153		
25,200.0	9,793.9	24,131.4	8,972.9	118.8	118.5	34.85	-15,159.4	-909.4	1,006.0	763.4	242.60	4.147		
25,270.0	9,793.9	24,201.4	8,972.9	119.4	119.0	34.85	-15,229.4	-910.0	1,006.0	762.3	243.68	4.128		
25,278.2	9,793.9	24,209.6	8,972.9	119.4	119.0	34.85	-15,237.6	-910.0	1,006.0	762.2	243.80	4.126		
25,300.0	9,793.9	24,231.4	8,972.9	119.6	119.2	34.85	-15,259.4	-910.2	1,006.0	761.9	244.14	4.121		
25,365.0	9,794.0	24,296.4	8,973.0	120.1	119.7	34.85	-15,324.4	-910.8	1,006.0	760.9	245.14	4.104		
25,391.7	9,794.0	24,323.2	8,973.0	120.3	119.9	34.85	-15,351.2	-911.0	1,006.0	760.5	245.55	4.097		
25,408.3	9,794.0	24,323.6	8,973.0	120.4	119.9	34.85	-15,351.6	-911.0	1,006.1	760.4	245.72	4.095 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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	4.5	4.5	3.0	3.0	-169.61	-150.5	-27.6	153.0					
95.0	95.0	99.5	99.5	3.0	3.0	-169.61	-150.5	-27.6	153.0	147.0	6.04	25.340		
100.0	100.0	104.5	104.5	3.0	3.0	-169.61	-150.5	-27.6	153.0	147.0	6.04	25.314		
190.0	190.0	194.5	194.5	3.1	3.1	-169.61	-150.5	-27.6	153.0	146.7	6.27	24.419		
200.0	200.0	204.5	204.5	3.1	3.2	-169.61	-150.5	-27.6	153.0	146.7	6.30	24.295		
285.0	285.0	289.5	289.5	3.3	3.3	-169.61	-150.5	-27.6	153.0	146.5	6.51	23.514		
300.0	300.0	304.5	304.5	3.3	3.3	-169.61	-150.5	-27.6	153.0	146.5	6.55	23.368		
380.0	380.0	384.5	384.5	3.4	3.4	-169.61	-150.5	-27.6	153.0	146.3	6.74	22.690		
400.0	400.0	404.5	404.5	3.4	3.4	-169.61	-150.5	-27.6	153.0	146.2	6.80	22.517		
475.0	475.0	479.5	479.5	3.5	3.5	-169.61	-150.5	-27.6	153.0	146.0	6.98	21.929		
500.0	500.0	504.5	504.5	3.5	3.5	-169.61	-150.5	-27.6	153.0	146.0	7.04	21.731		
570.0	570.0	574.5	574.5	3.6	3.6	-169.61	-150.5	-27.6	153.0	145.8	7.21	21.221		
600.0	600.0	604.5	604.5	3.6	3.6	-169.61	-150.5	-27.6	153.0	145.7	7.29	21.003		
665.0	665.0	669.5	669.5	3.7	3.7	-169.61	-150.5	-27.6	153.0	145.6	7.44	20.562		
700.0	700.0	704.5	704.5	3.8	3.8	-169.61	-150.5	-27.6	153.0	145.5	7.53	20.326		
760.0	760.0	764.5	764.5	3.8	3.8	-169.61	-150.5	-27.6	153.0	145.3	7.67	19.946		
800.0	800.0	804.5	804.5	3.9	3.9	-169.61	-150.5	-27.6	153.0	145.2	7.77	19.695		
855.0	855.0	859.5	859.5	4.0	4.0	-169.61	-150.5	-27.6	153.0	145.1	7.90	19.369		
900.0	900.0	904.5	904.5	4.0	4.0	-169.61	-150.5	-27.6	153.0	145.0	8.01	19.105		
950.0	950.0	954.5	954.5	4.1	4.1	-169.61	-150.5	-27.6	153.0	144.9	8.13	18.826		
1,000.0	1,000.0	1,004.5	1,004.5	4.1	4.1	-169.61	-150.5	-27.6	153.0	144.8	8.25	18.552		
1,045.0	1,045.0	1,049.5	1,049.5	4.2	4.2	-169.61	-150.5	-27.6	153.0	144.7	8.35	18.316		
1,100.0	1,100.0	1,104.5	1,104.5	4.2	4.3	-169.61	-150.5	-27.6	153.0	144.5	8.49	18.032		
1,140.0	1,140.0	1,144.5	1,144.5	4.3	4.3	-169.61	-150.5	-27.6	153.0	144.4	8.58	17.834		
1,200.0	1,200.0	1,204.5	1,204.5	4.4	4.4	-169.61	-150.5	-27.6	153.0	144.3	8.72	17.542		
1,235.0	1,235.0	1,239.5	1,239.5	4.4	4.4	-169.61	-150.5	-27.6	153.0	144.2	8.80	17.379		
1,300.0	1,300.0	1,304.5	1,304.5	4.5	4.5	-169.61	-150.5	-27.6	153.0	144.1	8.96	17.080		
1,330.0	1,330.0	1,334.5	1,334.5	4.5	4.5	-169.61	-150.5	-27.6	153.0	144.0	9.03	16.947		
1,400.0	1,400.0	1,404.5	1,404.5	4.6	4.6	-169.61	-150.5	-27.6	153.0	143.8	9.19	16.643		
1,425.0	1,425.0	1,429.5	1,429.5	4.6	4.6	-169.61	-150.5	-27.6	153.0	143.8	9.25	16.538		
1,500.0	1,500.0	1,504.5	1,504.5	4.7	4.7	-169.61	-150.5	-27.6	153.0	143.6	9.43	16.230		
1,500.3	1,500.3	1,504.9	1,504.9	4.7	4.7	-145.15	-150.5	-27.6	153.0	143.6	9.43	16.228 CC		
1,520.0	1,520.0	1,524.6	1,524.6	4.8	4.7	-145.13	-150.5	-27.7	153.1	143.6	9.48	16.140 ES		
1,600.0	1,600.0	1,604.8	1,604.8	4.9	4.8	-144.80	-150.0	-29.5	154.3	144.6	9.69	15.924		
1,615.0	1,615.0	1,619.8	1,619.8	4.9	4.9	-144.69	-149.9	-30.0	154.8	145.0	9.75	15.876		
1,700.0	1,699.8	1,704.9	1,704.8	5.2	5.0	-143.89	-148.8	-34.7	158.3	148.3	10.06	15.732		
1,710.0	1,709.8	1,714.9	1,714.7	5.2	5.0	-143.77	-148.6	-35.4	158.9	148.8	10.10	15.729 SF		
1,800.0	1,799.5	1,804.8	1,804.2	5.4	5.3	-142.51	-146.7	-43.3	165.1	154.7	10.44	15.819		
1,805.0	1,804.4	1,809.8	1,809.2	5.5	5.3	-142.43	-146.5	-43.9	165.5	155.1	10.46	15.829		
1,900.0	1,898.7	1,904.2	1,902.9	5.7	5.6	-140.77	-143.7	-55.3	174.7	163.9	10.81	16.158		
1,995.0	1,992.5	1,998.2	1,995.7	6.0	5.9	-138.90	-140.2	-69.6	186.4	175.3	11.17	16.696		
2,000.0	1,997.5	2,003.1	2,000.5	6.1	5.9	-138.80	-140.0	-70.4	187.1	176.0	11.19	16.730		
2,050.0	2,046.6	2,052.2	2,048.8	6.2	6.1	-137.77	-137.9	-79.1	194.5	183.1	11.32	17.176		
2,090.0	2,085.9	2,091.5	2,087.3	6.2	6.2	-136.97	-136.0	-86.7	200.7	189.2	11.43	17.557		
2,100.0	2,095.7	2,101.3	2,096.9	6.3	6.2	-136.76	-135.6	-88.7	202.2	190.8	11.46	17.653		
2,185.0	2,179.1	2,184.3	2,177.8	6.5	6.5	-134.69	-131.2	-106.6	215.8	204.0	11.75	18.367		
2,200.0	2,193.9	2,198.9	2,192.0	6.5	6.6	-134.29	-130.4	-110.0	218.2	206.4	11.80	18.496		
2,280.0	2,272.4	2,277.4	2,268.1	6.8	6.8	-132.21	-125.8	-128.4	231.5	219.4	12.08	19.160		
2,300.0	2,292.0	2,297.0	2,287.2	6.8	6.9	-131.73	-124.7	-133.1	234.8	222.7	12.15	19.324		
2,375.0	2,365.7	2,370.6	2,358.6	7.1	7.1	-130.03	-120.5	-150.3	247.5	235.1	12.43	19.916		
2,400.0	2,390.2	2,395.1	2,382.3	7.2	7.2	-129.51	-119.1	-156.1	251.8	239.3	12.52	20.110		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,470.0	2,458.9	2,463.8	2,449.0	7.4	7.5	-128.12	-115.1	-172.3	263.9	251.1	12.79	20.632		
2,500.0	2,488.4	2,493.2	2,477.5	7.5	7.6	-127.57	-113.4	-179.2	269.1	256.2	12.91	20.851		
2,565.0	2,552.2	2,557.0	2,539.4	7.7	7.8	-126.44	-109.8	-194.2	280.6	267.4	13.17	21.306		
2,600.0	2,586.5	2,591.3	2,572.7	7.9	7.9	-125.86	-107.8	-202.2	286.7	273.4	13.31	21.545		
2,660.0	2,645.4	2,650.2	2,629.8	8.1	8.1	-124.94	-104.4	-216.1	297.4	283.8	13.56	21.938		
2,700.0	2,684.7	2,689.4	2,667.9	8.2	8.3	-124.35	-102.2	-225.3	304.6	290.8	13.72	22.194		
2,755.0	2,738.7	2,743.3	2,720.3	8.4	8.5	-123.60	-99.1	-238.0	314.4	300.5	13.96	22.530		
2,800.0	2,782.8	2,787.5	2,763.1	8.6	8.7	-123.01	-96.5	-248.3	322.5	308.4	14.15	22.798		
2,850.0	2,831.9	2,836.5	2,810.7	8.8	8.9	-122.40	-93.7	-259.9	331.6	317.2	14.37	23.083		
2,900.0	2,881.0	2,885.6	2,858.3	9.0	9.0	-121.81	-90.9	-271.4	340.7	326.1	14.58	23.360		
2,945.0	2,925.2	2,929.7	2,901.1	9.1	9.2	-121.31	-88.4	-281.8	348.9	334.1	14.78	23.599		
3,000.0	2,979.2	2,983.7	2,953.5	9.4	9.4	-120.73	-85.3	-294.4	359.0	343.9	15.03	23.882		
3,040.0	3,018.4	3,022.9	2,991.5	9.5	9.6	-120.33	-83.0	-303.7	366.3	351.1	15.21	24.080		
3,100.0	3,077.3	3,081.8	3,048.7	9.7	9.8	-119.76	-79.6	-317.5	377.4	361.9	15.49	24.367		
3,135.0	3,111.7	3,116.1	3,082.0	9.9	10.0	-119.44	-77.6	-325.6	383.8	368.2	15.65	24.528		
3,200.0	3,175.5	3,179.9	3,143.8	10.1	10.3	-118.88	-74.0	-340.6	395.8	379.9	15.95	24.818		
3,230.0	3,205.0	3,209.3	3,172.4	10.3	10.4	-118.63	-72.3	-347.5	401.4	385.3	16.09	24.946		
3,300.0	3,273.7	3,278.0	3,239.0	10.6	10.7	-118.07	-68.3	-363.6	414.4	398.0	16.42	25.236		
3,325.0	3,298.2	3,302.5	3,262.8	10.7	10.8	-117.88	-66.9	-369.4	419.1	402.5	16.54	25.336		
3,400.0	3,371.8	3,376.1	3,334.2	11.0	11.1	-117.34	-62.7	-386.7	433.1	416.2	16.90	25.625		
3,420.0	3,391.5	3,395.7	3,353.3	11.0	11.2	-117.20	-61.6	-391.3	436.8	419.8	17.00	25.699		
3,500.0	3,470.0	3,474.2	3,429.4	11.4	11.5	-116.66	-57.1	-409.7	451.8	434.4	17.38	25.987		
3,515.0	3,484.7	3,488.9	3,443.7	11.4	11.6	-116.56	-56.2	-413.2	454.6	437.1	17.46	26.039		
3,600.0	3,568.2	3,572.3	3,524.6	11.8	12.0	-116.04	-51.4	-432.8	470.5	452.7	17.87	26.324		
3,610.0	3,578.0	3,582.1	3,534.1	11.8	12.0	-115.98	-50.9	-435.1	472.4	454.5	17.92	26.356		
3,700.0	3,666.3	3,670.4	3,619.8	12.2	12.4	-115.46	-45.8	-455.8	489.3	471.0	18.37	26.638		
3,705.0	3,671.2	3,675.3	3,624.5	12.2	12.4	-115.44	-45.5	-457.0	490.3	471.9	18.39	26.653		
3,800.0	3,764.5	3,768.5	3,715.0	12.6	12.8	-114.93	-40.2	-478.9	508.2	489.3	18.87	26.931		
3,895.0	3,857.7	3,861.7	3,805.4	13.1	13.2	-114.46	-34.8	-500.8	526.1	506.8	19.35	27.192		
3,900.0	3,862.6	3,866.6	3,810.1	13.1	13.3	-114.44	-34.5	-501.9	527.1	507.7	19.37	27.205		
3,990.0	3,951.0	3,954.9	3,895.8	13.5	13.7	-114.02	-29.4	-522.7	544.1	524.3	19.83	27.437		
4,000.0	3,960.8	3,964.7	3,905.3	13.5	13.7	-113.98	-28.9	-525.0	546.0	526.1	19.88	27.462		
4,085.0	4,044.2	4,048.1	3,986.2	13.9	14.1	-113.61	-24.1	-544.6	562.1	541.8	20.32	27.670		
4,097.4	4,056.4	4,060.3	3,998.0	13.9	14.1	-113.56	-23.4	-547.5	564.5	544.1	20.38	27.700		
4,100.0	4,059.0	4,062.8	4,000.5	13.9	14.2	-113.56	-23.2	-548.1	565.0	544.6	20.39	27.708		
4,180.0	4,137.7	4,141.3	4,076.7	14.3	14.5	-113.40	-18.7	-566.5	579.7	558.9	20.80	27.868		
4,200.0	4,157.5	4,161.0	4,095.8	14.4	14.6	-113.33	-17.6	-571.1	583.3	562.3	20.90	27.901		
4,275.0	4,231.7	4,234.6	4,167.2	14.7	14.9	-112.96	-13.4	-588.4	596.1	574.8	21.28	28.013		
4,300.0	4,256.5	4,259.1	4,191.0	14.8	15.1	-112.81	-12.0	-594.2	600.3	578.9	21.41	28.042		
4,370.0	4,326.1	4,327.8	4,257.6	15.1	15.4	-112.28	-8.0	-610.3	611.5	589.7	21.75	28.118		
4,400.0	4,356.0	4,357.2	4,286.1	15.3	15.5	-112.01	-6.3	-617.2	616.1	594.2	21.89	28.141		
4,465.0	4,420.8	4,420.8	4,347.9	15.5	15.8	-111.35	-2.7	-632.2	625.9	603.6	22.20	28.188		
4,500.0	4,455.7	4,455.0	4,381.1	15.6	16.0	-110.96	-0.7	-640.2	630.9	608.6	22.37	28.204		
4,560.0	4,515.7	4,513.5	4,437.9	15.8	16.2	-110.21	2.7	-654.0	639.4	616.8	22.65	28.232		
4,600.0	4,555.6	4,552.5	4,475.6	16.0	16.4	-109.67	4.9	-663.1	644.9	622.1	22.84	28.241		
4,647.4	4,603.0	4,598.5	4,520.3	16.0	16.6	-133.44	7.5	-673.9	651.3	628.3	23.03	28.285		
4,655.0	4,610.6	4,605.9	4,527.5	16.0	16.7	-133.31	8.0	-675.7	652.4	629.3	23.06	28.292		
4,700.0	4,655.6	4,649.6	4,569.8	16.1	16.9	-132.53	10.5	-686.0	658.5	635.2	23.24	28.335		
4,750.0	4,705.6	4,698.1	4,616.9	16.1	17.1	-131.68	13.3	-697.4	665.4	641.9	23.47	28.355		
4,800.0	4,755.6	4,746.6	4,664.0	16.1	17.3	-130.85	16.1	-708.8	672.5	648.8	23.70	28.373		
4,845.0	4,800.6	4,790.2	4,706.4	16.1	17.5	-130.12	18.6	-719.0	679.0	655.1	23.92	28.386		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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								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		
4,900.0	4,855.6	4,843.6	4,758.1	16.2	17.8	-129.24	21.6	-731.6	687.1	662.9	24.19	28.401		
4,940.0	4,895.6	4,882.4	4,795.8	16.2	18.0	-128.61	23.9	-740.7	693.0	668.7	24.39	28.410		
5,000.0	4,955.6	4,940.6	4,852.3	16.2	18.2	-127.69	27.2	-754.4	702.2	677.5	24.71	28.421		
5,035.0	4,990.6	4,974.6	4,885.2	16.2	18.4	-127.16	29.2	-762.3	707.6	682.7	24.89	28.427		
5,100.0	5,055.6	5,037.7	4,946.4	16.3	18.7	-126.20	32.8	-777.2	717.8	692.5	25.24	28.437		
5,130.0	5,085.6	5,066.8	4,974.7	16.3	18.8	-125.77	34.5	-784.0	722.6	697.1	25.41	28.440		
5,200.0	5,155.6	5,134.7	5,040.6	16.3	19.2	-124.78	38.4	-800.0	733.8	708.1	25.80	28.448		
5,225.0	5,180.6	5,159.0	5,064.1	16.4	19.3	-124.44	39.8	-805.7	737.9	712.0	25.94	28.451		
5,300.0	5,255.6	5,231.7	5,134.7	16.4	19.6	-123.42	43.9	-822.8	750.4	724.0	26.37	28.458		
5,320.0	5,275.6	5,251.1	5,153.5	16.4	19.7	-123.16	45.0	-827.3	753.7	727.2	26.48	28.460		
5,400.0	5,355.6	5,328.8	5,228.9	16.5	20.1	-122.12	49.5	-845.6	767.3	740.3	26.95	28.467		
5,415.0	5,370.6	5,343.3	5,243.0	16.5	20.1	-121.92	50.3	-849.0	769.8	742.8	27.04	28.468		
5,500.0	5,455.6	5,425.8	5,323.0	16.5	20.5	-120.87	55.1	-868.4	784.6	757.0	27.55	28.476		
5,510.0	5,465.6	5,435.5	5,332.4	16.5	20.6	-120.74	55.6	-870.7	786.3	758.7	27.61	28.477		
5,600.0	5,555.6	5,522.8	5,417.2	16.6	21.0	-119.67	60.7	-891.2	802.2	774.1	28.16	28.487		
5,605.0	5,560.6	5,527.7	5,421.9	16.6	21.0	-119.61	60.9	-892.3	803.1	774.9	28.19	28.487		
5,700.0	5,655.6	5,619.8	5,511.3	16.6	21.5	-118.52	66.2	-914.0	820.2	791.4	28.78	28.500		
5,795.0	5,750.6	5,712.0	5,600.7	16.7	21.9	-117.48	71.5	-935.7	837.6	808.2	29.37	28.514		
5,800.0	5,755.6	5,716.9	5,605.4	16.7	21.9	-117.43	71.8	-936.8	838.5	809.1	29.41	28.515		
5,890.0	5,845.6	5,804.2	5,690.2	16.7	22.3	-116.48	76.8	-957.3	855.2	825.3	29.97	28.532		
5,900.0	5,855.6	5,813.9	5,699.6	16.8	22.4	-116.37	77.4	-959.6	857.1	827.1	30.04	28.534		
5,985.0	5,940.6	5,896.4	5,779.6	16.8	22.8	-115.51	82.1	-979.0	873.1	842.5	30.58	28.552		
6,000.0	5,955.6	5,910.9	5,793.7	16.8	22.9	-115.37	83.0	-982.4	876.0	845.3	30.68	28.556		
6,080.0	6,035.6	5,988.6	5,869.1	16.9	23.2	-114.59	87.4	-1,000.6	891.2	860.1	31.19	28.576		
6,100.0	6,055.6	6,008.0	5,887.9	16.9	23.3	-114.40	88.5	-1,005.2	895.1	863.8	31.32	28.581		
6,175.0	6,130.6	6,080.7	5,958.5	16.9	23.7	-113.70	92.7	-1,022.3	909.6	877.8	31.80	28.603		
6,200.0	6,155.6	6,105.0	5,982.0	16.9	23.8	-113.47	94.1	-1,028.0	914.5	882.5	31.96	28.610		
6,270.0	6,225.6	6,172.9	6,047.9	17.0	24.1	-112.85	98.0	-1,044.0	928.1	895.7	32.42	28.633		
6,300.0	6,255.6	6,202.0	6,076.2	17.0	24.2	-112.59	99.7	-1,050.8	934.0	901.4	32.61	28.643		
6,365.0	6,320.6	6,265.1	6,137.4	17.0	24.5	-112.03	103.3	-1,065.6	946.9	913.9	33.03	28.666		
6,400.0	6,355.6	6,299.1	6,170.3	17.0	24.7	-111.73	105.3	-1,073.6	953.8	920.6	33.26	28.679		
6,460.0	6,415.6	6,357.3	6,226.8	17.1	25.0	-111.24	108.6	-1,087.3	965.8	932.2	33.65	28.703		
6,500.0	6,455.6	6,396.1	6,264.5	17.1	25.2	-110.92	110.8	-1,096.4	973.8	939.9	33.91	28.719		
6,555.0	6,510.6	6,449.4	6,316.3	17.1	25.4	-110.48	113.9	-1,109.0	984.9	950.6	34.27	28.742		
6,600.0	6,555.6	6,493.1	6,358.6	17.2	25.6	-110.13	116.4	-1,119.2	994.0	959.5	34.56	28.762		
6,650.0	6,605.6	6,541.6	6,405.7	17.2	25.9	-109.75	119.2	-1,130.6	1,004.2	969.3	34.89	28.784		
6,700.0	6,655.6	6,590.1	6,452.8	17.2	26.1	-109.37	122.0	-1,142.0	1,014.4	979.2	35.21	28.808		
6,745.0	6,700.6	6,633.8	6,495.1	17.3	26.3	-109.04	124.5	-1,152.3	1,023.6	988.1	35.51	28.829		
6,800.0	6,755.6	6,687.2	6,546.9	17.3	26.6	-108.65	127.6	-1,164.8	1,034.9	999.0	35.86	28.857		
6,840.0	6,795.6	6,726.0	6,584.6	17.3	26.8	-108.37	129.8	-1,173.9	1,043.2	1,007.0	36.12	28.879		
6,900.0	6,855.6	6,789.5	6,646.2	17.4	27.1	-107.92	133.4	-1,188.8	1,055.6	1,019.0	36.53	28.896		
6,935.0	6,890.6	6,839.5	6,694.9	17.4	27.3	-107.59	136.1	-1,199.9	1,062.4	1,025.6	36.82	28.851		
7,000.0	6,955.6	6,933.2	6,786.6	17.4	27.8	-107.05	140.7	-1,218.4	1,073.8	1,036.4	37.35	28.752		
7,030.0	6,985.6	6,976.9	6,829.6	17.4	28.0	-106.84	142.5	-1,226.0	1,078.4	1,040.9	37.57	28.704		
7,100.0	7,055.6	7,079.7	6,931.2	17.5	28.4	-106.41	146.3	-1,241.4	1,087.8	1,049.8	38.05	28.589		
7,125.0	7,080.6	7,116.7	6,967.8	17.5	28.6	-106.28	147.5	-1,246.1	1,090.6	1,052.4	38.21	28.547		
7,200.0	7,155.6	7,228.3	7,078.8	17.5	29.1	-105.97	150.2	-1,257.5	1,097.4	1,058.8	38.61	28.421		
7,220.0	7,175.6	7,258.2	7,108.6	17.6	29.2	-105.91	150.8	-1,259.8	1,098.8	1,060.1	38.71	28.388		
7,300.0	7,255.6	7,378.2	7,228.5	17.6	29.6	-105.74	152.3	-1,266.1	1,102.6	1,063.6	39.01	28.263		
7,315.0	7,270.6	7,400.7	7,251.0	17.6	29.7	-105.73	152.5	-1,266.7	1,103.0	1,063.9	39.06	28.239		
7,400.0	7,355.6	7,509.9	7,360.1	17.7	29.8	-105.71	152.7	-1,267.6	1,103.5	1,064.4	39.12	28.209		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
7,410.0	7,365.6	7,519.9	7,370.1	17.7	29.8	-105.71	152.7	-1,267.6	1,103.5	1,064.4	39.13	28.201	
7,500.0	7,455.6	7,609.9	7,460.1	17.7	29.8	-105.71	152.7	-1,267.6	1,103.5	1,064.3	39.24	28.124	
7,505.0	7,460.6	7,614.9	7,465.1	17.7	29.8	-105.71	152.7	-1,267.6	1,103.5	1,064.3	39.24	28.119	
7,600.0	7,555.6	7,709.9	7,560.1	17.8	29.9	-105.71	152.7	-1,267.6	1,103.5	1,064.1	39.36	28.038	
7,695.0	7,650.6	7,804.9	7,655.1	17.8	29.9	-105.71	152.7	-1,267.6	1,103.5	1,064.0	39.47	27.958	
7,700.0	7,655.6	7,809.9	7,660.1	17.8	29.9	-105.71	152.7	-1,267.6	1,103.5	1,064.0	39.48	27.953	
7,790.0	7,745.6	7,899.9	7,750.1	17.9	29.9	-105.71	152.7	-1,267.6	1,103.5	1,063.9	39.58	27.877	
7,800.0	7,755.6	7,909.9	7,760.1	17.9	29.9	-105.71	152.7	-1,267.6	1,103.5	1,063.9	39.60	27.869	
7,885.0	7,840.6	7,994.9	7,845.1	18.0	29.9	-105.71	152.7	-1,267.6	1,103.5	1,063.8	39.70	27.798	
7,900.0	7,855.6	8,009.9	7,860.1	18.0	29.9	-105.71	152.7	-1,267.6	1,103.5	1,063.8	39.72	27.785	
7,980.0	7,935.6	8,089.9	7,940.1	18.0	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.7	39.81	27.718	
8,000.0	7,955.6	8,109.9	7,960.1	18.0	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.7	39.84	27.701	
8,075.0	8,030.6	8,184.9	8,035.1	18.1	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.6	39.93	27.639	
8,100.0	8,055.6	8,209.9	8,060.1	18.1	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.5	39.96	27.618	
8,170.0	8,125.6	8,279.9	8,130.1	18.1	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.5	40.04	27.560	
8,200.0	8,155.6	8,309.9	8,160.1	18.2	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.4	40.08	27.535	
8,265.0	8,220.6	8,374.9	8,225.1	18.2	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.3	40.15	27.482	
8,300.0	8,255.6	8,409.9	8,260.1	18.2	30.1	-105.71	152.7	-1,267.6	1,103.5	1,063.3	40.20	27.453	
8,360.0	8,315.6	8,469.9	8,320.1	18.3	30.1	-105.71	152.7	-1,267.6	1,103.5	1,063.2	40.27	27.404	
8,400.0	8,355.6	8,509.9	8,360.1	18.3	30.1	-105.71	152.7	-1,267.6	1,103.5	1,063.2	40.31	27.373	
8,404.3	8,359.9	8,514.1	8,364.4	18.3	30.1	-105.71	152.7	-1,267.6	1,103.5	1,063.2	40.32	27.370	
8,455.0	8,410.6	8,550.0	8,400.3	18.3	30.1	-105.72	152.3	-1,267.6	1,103.7	1,063.3	40.44	27.294	
8,500.0	8,455.6	8,581.8	8,432.0	18.4	30.1	-105.82	150.3	-1,267.6	1,104.5	1,064.0	40.53	27.253	
8,550.0	8,505.6	8,613.8	8,463.8	18.4	30.1	-106.01	146.5	-1,267.7	1,106.2	1,065.6	40.62	27.230	
8,600.0	8,555.6	8,650.0	8,499.4	18.4	30.1	-106.33	140.1	-1,267.7	1,108.7	1,068.1	40.67	27.259	
8,645.0	8,600.6	8,673.2	8,522.0	18.4	30.1	-106.59	134.8	-1,267.7	1,111.7	1,071.0	40.76	27.275	
8,700.0	8,655.6	8,700.0	8,547.8	18.5	30.1	-106.95	127.6	-1,267.8	1,116.4	1,075.6	40.85	27.327	
8,740.0	8,695.6	8,729.6	8,575.8	18.5	30.1	-107.41	118.2	-1,267.9	1,120.5	1,079.7	40.84	27.435	
8,800.0	8,755.6	8,763.3	8,607.1	18.5	30.1	-108.02	105.8	-1,268.0	1,127.9	1,087.0	40.87	27.595	
8,835.0	8,790.6	8,782.2	8,624.4	18.6	30.1	-108.39	98.0	-1,268.1	1,132.9	1,092.0	40.89	27.709	
8,900.0	8,855.6	8,815.8	8,654.3	18.6	30.1	-109.13	82.8	-1,268.2	1,143.7	1,102.8	40.90	27.961	
8,930.0	8,885.6	8,830.7	8,667.3	18.6	30.1	-109.48	75.5	-1,268.2	1,149.3	1,108.4	40.91	28.095	
9,000.0	8,955.6	8,863.6	8,695.3	18.7	30.1	-110.30	58.2	-1,268.4	1,164.0	1,123.1	40.91	28.454	
9,025.0	8,980.6	8,874.8	8,704.6	18.7	30.1	-110.59	51.9	-1,268.4	1,169.8	1,128.9	40.91	28.597	
9,100.0	9,055.6	8,900.0	8,725.0	18.7	30.2	-111.28	37.2	-1,268.6	1,189.3	1,148.3	40.95	29.043	
9,120.0	9,075.6	8,914.7	8,736.6	18.8	30.2	-111.70	28.2	-1,268.6	1,194.9	1,154.0	40.90	29.215	
9,200.0	9,155.6	8,950.0	8,763.6	18.8	30.2	-112.75	5.4	-1,268.8	1,219.5	1,178.7	40.86	29.849	
9,215.0	9,170.6	8,950.0	8,763.6	18.8	30.2	-112.75	5.4	-1,268.8	1,224.5	1,183.6	40.89	29.946	
9,257.4	9,213.0	8,965.5	8,774.9	18.8	30.2	-113.23	-5.1	-1,268.9	1,239.2	1,198.3	40.87	30.319	
9,300.0	9,255.6	8,980.2	8,785.5	18.9	30.2	64.39	-15.4	-1,269.0	1,254.2	1,213.4	40.83	30.720	
9,310.0	9,265.6	8,983.7	8,787.9	18.9	30.2	63.96	-17.9	-1,269.0	1,257.7	1,216.9	40.83	30.806	
9,350.0	9,305.2	9,000.0	8,799.2	18.9	30.2	62.22	-29.7	-1,269.1	1,271.4	1,230.6	40.82	31.145	
9,400.0	9,354.2	9,015.8	8,809.8	19.0	30.2	60.31	-41.3	-1,269.2	1,287.8	1,247.0	40.87	31.507	
9,405.0	9,359.0	9,017.6	8,811.0	19.0	30.2	60.13	-42.7	-1,269.2	1,289.4	1,248.6	40.88	31.542	
9,450.0	9,402.0	9,034.1	8,821.7	19.1	30.2	58.51	-55.2	-1,269.3	1,303.4	1,262.5	40.94	31.837	
9,500.0	9,448.5	9,050.0	8,831.7	19.1	30.2	56.92	-67.7	-1,269.4	1,317.9	1,276.9	41.05	32.107	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-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	0.6	0.6	3.0	3.0	88.85	0.6	30.0	30.0				
95.0	95.0	95.6	95.6	3.0	3.0	88.85	0.6	30.0	30.0	24.0	6.04	4.971	
100.0	100.0	100.6	100.6	3.0	3.0	88.85	0.6	30.0	30.0	24.0	6.04	4.967	
190.0	190.0	190.6	190.6	3.1	3.1	88.85	0.6	30.0	30.0	23.8	6.25	4.799	
200.0	200.0	200.6	200.6	3.1	3.1	88.85	0.6	30.0	30.0	23.7	6.29	4.773	
285.0	285.0	285.6	285.6	3.3	3.3	88.85	0.6	30.0	30.0	23.5	6.48	4.628	
300.0	300.0	300.6	300.6	3.3	3.3	88.85	0.6	30.0	30.0	23.5	6.52	4.600	
380.0	380.0	380.6	380.6	3.4	3.4	88.85	0.6	30.0	30.0	23.3	6.70	4.477	
400.0	400.0	400.6	400.6	3.4	3.4	88.85	0.6	30.0	30.0	23.3	6.75	4.445	
475.0	475.0	475.6	475.6	3.5	3.5	88.85	0.6	30.0	30.0	23.1	6.91	4.340	
500.0	500.0	500.6	500.6	3.5	3.5	88.85	0.6	30.0	30.0	23.0	6.97	4.304	
570.0	570.0	570.6	570.6	3.6	3.6	88.85	0.6	30.0	30.0	22.9	7.12	4.215	
600.0	600.0	600.6	600.6	3.6	3.6	88.85	0.6	30.0	30.0	22.8	7.19	4.176	
665.0	665.0	665.6	665.6	3.7	3.7	88.85	0.6	30.0	30.0	22.7	7.32	4.100	
700.0	700.0	700.6	700.6	3.8	3.8	88.85	0.6	30.0	30.0	22.6	7.39	4.059	
760.0	760.0	760.6	760.6	3.8	3.8	88.85	0.6	30.0	30.0	22.5	7.51	3.994	
800.0	800.0	800.6	800.6	3.9	3.9	88.85	0.6	30.0	30.0	22.4	7.59	3.951	
855.0	855.0	855.6	855.6	4.0	4.0	88.85	0.6	30.0	30.0	22.3	7.70	3.896	
900.0	900.0	900.6	900.6	4.0	4.0	88.85	0.6	30.0	30.0	22.2	7.79	3.851	
950.0	950.0	950.6	950.6	4.1	4.1	88.85	0.6	30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	1,000.6	1,000.6	4.1	4.1	88.85	0.6	30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,045.6	1,045.6	4.2	4.2	88.85	0.6	30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,100.6	1,100.6	4.2	4.2	88.85	0.6	30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,140.6	1,140.6	4.3	4.3	88.85	0.6	30.0	30.0	21.8	8.24	3.640	
1,200.0	1,200.0	1,200.6	1,200.6	4.4	4.4	88.85	0.6	30.0	30.0	21.7	8.35	3.592	
1,235.0	1,235.0	1,235.6	1,235.6	4.4	4.4	88.85	0.6	30.0	30.0	21.6	8.42	3.566	
1,300.0	1,300.0	1,300.6	1,300.6	4.5	4.5	88.85	0.6	30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,330.6	1,330.6	4.5	4.5	88.85	0.6	30.0	30.0	21.4	8.58	3.495	
1,400.0	1,400.0	1,400.6	1,400.6	4.6	4.6	88.85	0.6	30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,425.6	1,425.6	4.6	4.6	88.85	0.6	30.0	30.0	21.3	8.75	3.429	
1,437.3	1,437.3	1,437.9	1,437.9	4.6	4.6	88.85	0.6	30.0	30.0	21.2	8.77	3.421 CC	
1,500.0	1,500.0	1,500.6	1,500.6	4.7	4.7	88.85	0.6	30.0	30.0	21.1	8.88	3.379 ES	
1,520.0	1,520.0	1,520.4	1,520.4	4.8	4.7	113.34	0.6	30.1	30.1	21.2	8.93	3.370 SF	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	114.20	1.7	31.4	32.1	23.0	9.13	3.514	
1,615.0	1,615.0	1,614.6	1,614.6	4.9	4.9	114.47	2.0	31.8	32.7	23.6	9.19	3.564	
1,700.0	1,699.8	1,698.6	1,698.4	5.2	5.1	116.32	4.9	35.3	38.3	28.8	9.53	4.018	
1,710.0	1,709.8	1,708.5	1,708.3	5.2	5.1	116.55	5.4	35.9	39.2	29.6	9.57	4.090	
1,800.0	1,799.5	1,796.9	1,796.4	5.4	5.4	118.61	10.3	41.9	48.7	38.8	9.94	4.899	
1,805.0	1,804.4	1,801.8	1,801.3	5.5	5.4	118.72	10.6	42.3	49.3	39.4	9.96	4.953	
1,900.0	1,898.7	1,894.5	1,893.3	5.7	5.6	120.51	17.7	51.0	63.3	53.0	10.36	6.111	
1,995.0	1,992.5	1,986.2	1,983.9	6.0	5.9	121.82	26.6	61.9	81.0	70.3	10.77	7.525	
2,000.0	1,997.5	1,991.0	1,988.6	6.1	5.9	121.88	27.1	62.5	82.1	71.3	10.79	7.606	
2,050.0	2,046.6	2,038.8	2,035.6	6.2	6.1	122.40	32.5	69.1	92.9	82.0	10.96	8.481	
2,090.0	2,085.9	2,076.9	2,073.0	6.2	6.2	122.77	37.2	74.9	102.3	91.2	11.10	9.215	
2,100.0	2,095.7	2,086.4	2,082.3	6.3	6.3	122.82	38.4	76.3	104.6	93.5	11.13	9.400	
2,185.0	2,179.1	2,166.6	2,160.6	6.5	6.5	122.71	49.4	89.8	125.7	114.2	11.49	10.940	
2,200.0	2,193.9	2,180.7	2,174.3	6.5	6.6	122.62	51.5	92.4	129.6	118.0	11.55	11.216	
2,280.0	2,272.4	2,257.2	2,248.6	6.8	6.8	122.00	63.1	106.7	150.7	138.8	11.90	12.663	
2,300.0	2,292.0	2,276.5	2,267.3	6.8	6.9	121.87	66.1	110.3	156.0	144.0	11.99	13.012	
2,375.0	2,365.7	2,348.8	2,337.4	7.1	7.1	121.44	77.1	123.8	175.8	163.5	12.33	14.265	
2,400.0	2,390.2	2,372.9	2,360.8	7.2	7.2	121.31	80.8	128.4	182.4	170.0	12.44	14.666	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,470.0	2,458.9	2,440.4	2,426.3	7.4	7.4	121.01	91.2	141.0	201.0	188.2	12.77	15.740	
2,500.0	2,488.4	2,469.3	2,454.4	7.5	7.5	120.90	95.6	146.4	208.9	196.0	12.91	16.181	
2,565.0	2,552.2	2,532.0	2,515.2	7.7	7.8	120.68	105.2	158.2	226.1	212.9	13.23	17.098	
2,600.0	2,586.5	2,565.8	2,548.0	7.9	7.9	120.58	110.3	164.5	235.4	222.0	13.40	17.570	
2,660.0	2,645.4	2,623.6	2,604.1	8.1	8.1	120.42	119.2	175.4	251.3	237.6	13.70	18.348	
2,700.0	2,684.7	2,662.2	2,641.5	8.2	8.2	120.32	125.1	182.6	261.9	248.0	13.90	18.844	
2,755.0	2,738.7	2,715.2	2,693.0	8.4	8.4	120.20	133.2	192.5	276.5	262.3	14.18	19.499	
2,800.0	2,782.8	2,758.6	2,735.1	8.6	8.6	120.11	139.8	200.7	288.4	274.0	14.41	20.012	
2,850.0	2,831.9	2,806.8	2,781.8	8.8	8.8	120.02	147.2	209.7	301.6	287.0	14.67	20.560	
2,900.0	2,881.0	2,855.0	2,828.6	9.0	9.0	119.94	154.6	218.7	314.9	299.9	14.93	21.085	
2,945.0	2,925.2	2,898.4	2,870.7	9.1	9.2	119.87	161.2	226.9	326.8	311.6	15.17	21.539	
3,000.0	2,979.2	2,951.5	2,922.2	9.4	9.4	119.79	169.3	236.8	341.4	325.9	15.47	22.071	
3,040.0	3,018.4	2,990.0	2,959.6	9.5	9.5	119.74	175.2	244.0	352.0	336.3	15.68	22.443	
3,100.0	3,077.3	3,047.9	3,015.7	9.7	9.8	119.67	184.1	254.9	367.9	351.9	16.01	22.979	
3,135.0	3,111.7	3,081.6	3,048.5	9.9	9.9	119.63	189.2	261.2	377.1	360.9	16.20	23.280	
3,200.0	3,175.5	3,144.3	3,109.3	10.1	10.2	119.56	198.8	273.0	394.4	377.8	16.56	23.816	
3,230.0	3,205.0	3,173.2	3,137.4	10.3	10.3	119.53	203.2	278.4	402.3	385.6	16.73	24.054	
3,300.0	3,273.7	3,240.7	3,202.9	10.6	10.6	119.46	213.5	291.0	420.9	403.8	17.12	24.589	
3,325.0	3,298.2	3,264.8	3,226.2	10.7	10.7	119.44	217.2	295.6	427.5	410.2	17.26	24.773	
3,400.0	3,371.8	3,337.1	3,296.4	11.0	11.0	119.38	228.3	309.1	447.4	429.7	17.68	25.304	
3,420.0	3,391.5	3,356.4	3,315.1	11.0	11.1	119.36	231.2	312.7	452.7	434.9	17.79	25.441	
3,500.0	3,470.0	3,433.6	3,390.0	11.4	11.4	119.31	243.0	327.2	473.9	455.6	18.25	25.967	
3,515.0	3,484.7	3,448.0	3,404.0	11.4	11.5	119.30	245.3	329.9	477.9	459.5	18.34	26.062	
3,600.0	3,568.2	3,530.0	3,483.5	11.8	11.8	119.24	257.8	345.3	500.4	481.6	18.82	26.582	
3,610.0	3,578.0	3,539.6	3,492.9	11.8	11.9	119.23	259.3	347.1	503.0	484.2	18.88	26.641	
3,700.0	3,666.3	3,626.4	3,577.1	12.2	12.2	119.18	272.5	363.3	526.9	507.5	19.40	27.154	
3,705.0	3,671.2	3,631.2	3,581.8	12.2	12.3	119.18	273.3	364.2	528.2	508.8	19.43	27.182	
3,800.0	3,764.5	3,722.8	3,670.6	12.6	12.7	119.13	287.3	381.4	553.4	533.4	19.99	27.687	
3,895.0	3,857.7	3,814.4	3,759.5	13.1	13.1	119.08	301.3	398.6	578.6	558.0	20.55	28.160	
3,900.0	3,862.6	3,819.3	3,764.2	13.1	13.1	119.08	302.0	399.5	579.9	559.3	20.58	28.184	
3,990.0	3,951.0	3,906.0	3,848.4	13.5	13.5	119.04	315.3	415.8	603.8	582.7	21.11	28.603	
4,000.0	3,960.8	3,915.7	3,857.8	13.5	13.5	119.03	316.8	417.6	606.4	585.2	21.17	28.648	
4,085.0	4,044.2	3,997.6	3,937.3	13.9	13.9	119.00	329.3	432.9	628.9	607.3	21.67	29.023	
4,097.4	4,056.4	4,009.6	3,948.9	13.9	14.0	118.99	331.1	435.2	632.2	610.5	21.74	29.076	
4,100.0	4,059.0	4,012.1	3,951.3	13.9	14.0	119.00	331.5	435.6	632.9	611.2	21.76	29.089	
4,180.0	4,137.7	4,089.4	4,026.3	14.3	14.3	119.25	343.3	450.1	653.6	631.3	22.24	29.387	
4,200.0	4,157.5	4,108.7	4,045.1	14.4	14.4	119.28	346.3	453.8	658.6	636.2	22.36	29.452	
4,275.0	4,231.7	4,181.4	4,115.6	14.7	14.7	119.31	357.4	467.4	676.7	653.9	22.80	29.677	
4,300.0	4,256.5	4,205.7	4,139.1	14.8	14.8	119.28	361.1	471.9	682.6	659.6	22.95	29.740	
4,370.0	4,326.1	4,273.7	4,205.1	15.1	15.2	119.13	371.5	484.7	698.4	675.1	23.36	29.905	
4,400.0	4,356.0	4,302.8	4,233.4	15.3	15.3	119.03	376.0	490.1	705.0	681.5	23.53	29.963	
4,465.0	4,420.8	4,366.0	4,294.7	15.5	15.6	118.74	385.6	502.0	718.7	694.8	23.89	30.082	
4,500.0	4,455.7	4,400.0	4,327.7	15.6	15.7	118.54	390.8	508.4	725.9	701.8	24.09	30.133	
4,560.0	4,515.7	4,458.3	4,384.3	15.8	16.0	118.15	399.8	519.3	737.7	713.3	24.41	30.219	
4,600.0	4,555.6	4,497.2	4,422.0	16.0	16.2	117.85	405.7	526.6	745.3	720.7	24.63	30.264	
4,647.4	4,603.0	4,544.6	4,468.0	16.0	16.4	92.97	412.9	535.5	754.1	729.2	24.83	30.367	
4,655.0	4,610.6	4,553.9	4,477.0	16.0	16.4	92.86	414.3	537.2	755.4	730.6	24.87	30.371	
4,700.0	4,655.6	4,608.7	4,530.4	16.1	16.7	92.22	422.2	546.8	763.1	738.0	25.12	30.378	
4,750.0	4,705.6	4,670.1	4,590.5	16.1	17.0	91.59	430.2	556.7	771.0	745.6	25.43	30.319	
4,800.0	4,755.6	4,732.1	4,651.3	16.1	17.3	91.03	437.5	565.6	778.1	752.4	25.73	30.241	
4,845.0	4,800.6	4,788.2	4,706.7	16.1	17.5	90.59	443.4	572.8	783.9	757.9	26.00	30.153	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
4,900.0	4,855.6	4,857.4	4,775.1	16.2	17.8	90.12	449.7	580.6	790.0	763.7	26.30	30.034	
4,940.0	4,895.6	4,907.9	4,825.3	16.2	18.1	89.84	453.7	585.4	793.9	767.3	26.52	29.930	
5,000.0	4,955.6	4,984.1	4,901.1	16.2	18.4	89.49	458.6	591.4	798.6	771.8	26.83	29.771	
5,035.0	4,990.6	5,028.8	4,945.6	16.2	18.6	89.32	460.8	594.2	800.8	773.8	26.99	29.671	
5,100.0	5,055.6	5,111.9	5,028.6	16.3	18.9	89.11	463.9	597.9	803.8	776.5	27.28	29.468	
5,130.0	5,085.6	5,150.4	5,067.1	16.3	19.0	89.05	464.8	599.0	804.7	777.3	27.38	29.388	
5,200.0	5,155.6	5,240.2	5,156.9	16.3	19.2	88.99	465.6	600.1	805.5	777.9	27.56	29.223	
5,201.1	5,156.8	5,241.7	5,158.4	16.3	19.2	88.99	465.6	600.1	805.5	777.9	27.57	29.221	
5,225.0	5,180.6	5,264.6	5,181.2	16.4	19.2	88.99	465.6	600.1	805.5	777.9	27.59	29.194	
5,300.0	5,255.6	5,339.6	5,256.2	16.4	19.2	88.99	465.6	600.1	805.5	777.8	27.68	29.096	
5,320.0	5,275.6	5,359.6	5,276.2	16.4	19.2	88.99	465.6	600.1	805.5	777.8	27.71	29.068	
5,400.0	5,355.6	5,439.6	5,356.2	16.5	19.3	88.99	465.6	600.1	805.5	777.7	27.82	28.956	
5,415.0	5,370.6	5,454.6	5,371.2	16.5	19.3	88.99	465.6	600.1	805.5	777.6	27.84	28.935	
5,500.0	5,455.6	5,539.6	5,456.2	16.5	19.3	88.99	465.6	600.1	805.5	777.5	27.95	28.818	
5,510.0	5,465.6	5,549.6	5,466.2	16.5	19.3	88.99	465.6	600.1	805.5	777.5	27.96	28.804	
5,600.0	5,555.6	5,639.6	5,556.2	16.6	19.4	88.99	465.6	600.1	805.5	777.4	28.08	28.680	
5,605.0	5,560.6	5,644.6	5,561.2	16.6	19.4	88.99	465.6	600.1	805.5	777.4	28.09	28.673	
5,700.0	5,655.6	5,739.6	5,656.2	16.6	19.4	88.99	465.6	600.1	805.5	777.3	28.22	28.544	
5,795.0	5,750.6	5,834.6	5,751.2	16.7	19.5	88.99	465.6	600.1	805.5	777.1	28.35	28.415	
5,800.0	5,755.6	5,839.6	5,756.2	16.7	19.5	88.99	465.6	600.1	805.5	777.1	28.35	28.408	
5,890.0	5,845.6	5,929.6	5,846.2	16.7	19.5	88.99	465.6	600.1	805.5	777.0	28.47	28.288	
5,900.0	5,855.6	5,939.6	5,856.2	16.8	19.5	88.99	465.6	600.1	805.5	777.0	28.49	28.274	
5,985.0	5,940.6	6,024.6	5,941.2	16.8	19.5	88.99	465.6	600.1	805.5	776.9	28.60	28.161	
6,000.0	5,955.6	6,039.6	5,956.2	16.8	19.6	88.99	465.6	600.1	805.5	776.9	28.62	28.141	
6,080.0	6,035.6	6,119.6	6,036.2	16.9	19.6	88.99	465.6	600.1	805.5	776.7	28.73	28.035	
6,100.0	6,055.6	6,139.6	6,056.2	16.9	19.6	88.99	465.6	600.1	805.5	776.7	28.76	28.009	
6,175.0	6,130.6	6,214.6	6,131.2	16.9	19.6	88.99	465.6	600.1	805.5	776.6	28.86	27.910	
6,200.0	6,155.6	6,239.6	6,156.2	16.9	19.7	88.99	465.6	600.1	805.5	776.6	28.89	27.877	
6,270.0	6,225.6	6,309.6	6,226.2	17.0	19.7	88.99	465.6	600.1	805.5	776.5	28.99	27.786	
6,300.0	6,255.6	6,339.6	6,256.2	17.0	19.7	88.99	465.6	600.1	805.5	776.4	29.03	27.747	
6,365.0	6,320.6	6,404.6	6,321.2	17.0	19.7	88.99	465.6	600.1	805.5	776.4	29.12	27.663	
6,400.0	6,355.6	6,439.6	6,356.2	17.0	19.7	88.99	465.6	600.1	805.5	776.3	29.16	27.618	
6,460.0	6,415.6	6,499.6	6,416.2	17.1	19.8	88.99	465.6	600.1	805.5	776.2	29.25	27.541	
6,500.0	6,455.6	6,539.6	6,456.2	17.1	19.8	88.99	465.6	600.1	805.5	776.2	29.30	27.490	
6,555.0	6,510.6	6,594.6	6,511.2	17.1	19.8	88.99	465.6	600.1	805.5	776.1	29.38	27.420	
6,600.0	6,555.6	6,639.6	6,556.2	17.2	19.8	88.99	465.6	600.1	805.5	776.0	29.44	27.363	
6,650.0	6,605.6	6,689.6	6,606.2	17.2	19.9	88.99	465.6	600.1	805.5	776.0	29.51	27.300	
6,700.0	6,655.6	6,739.6	6,656.2	17.2	19.9	88.99	465.6	600.1	805.5	775.9	29.57	27.237	
6,745.0	6,700.6	6,784.6	6,701.2	17.3	19.9	88.99	465.6	600.1	805.5	775.8	29.63	27.180	
6,800.0	6,755.6	6,839.6	6,756.2	17.3	19.9	88.99	465.6	600.1	805.5	775.8	29.71	27.111	
6,840.0	6,795.6	6,879.6	6,796.2	17.3	20.0	88.99	465.6	600.1	805.5	775.7	29.76	27.062	
6,900.0	6,855.6	6,939.6	6,856.2	17.4	20.0	88.99	465.6	600.1	805.5	775.6	29.85	26.987	
6,935.0	6,890.6	6,974.6	6,891.2	17.4	20.0	88.99	465.6	600.1	805.5	775.6	29.89	26.944	
7,000.0	6,955.6	7,039.6	6,956.2	17.4	20.0	88.99	465.6	600.1	805.5	775.5	29.98	26.864	
7,030.0	6,985.6	7,069.6	6,986.2	17.4	20.1	88.99	465.6	600.1	805.5	775.5	30.02	26.827	
7,100.0	7,055.6	7,139.6	7,056.2	17.5	20.1	88.99	465.6	600.1	805.5	775.4	30.12	26.741	
7,125.0	7,080.6	7,164.6	7,081.2	17.5	20.1	88.99	465.6	600.1	805.5	775.3	30.16	26.711	
7,200.0	7,155.6	7,239.6	7,156.2	17.5	20.1	88.99	465.6	600.1	805.5	775.2	30.26	26.620	
7,220.0	7,175.6	7,259.6	7,176.2	17.6	20.2	88.99	465.6	600.1	805.5	775.2	30.29	26.596	
7,300.0	7,255.6	7,339.6	7,256.2	17.6	20.2	88.99	465.6	600.1	805.5	775.1	30.40	26.499	
7,315.0	7,270.6	7,354.6	7,271.2	17.6	20.2	88.99	465.6	600.1	805.5	775.1	30.42	26.481	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,400.0	7,355.6	7,439.6	7,356.2	17.7	20.2	88.99	465.6	600.1	805.5	774.9	30.53	26.380		
7,410.0	7,365.6	7,449.6	7,366.2	17.7	20.2	88.99	465.6	600.1	805.5	774.9	30.55	26.368		
7,500.0	7,455.6	7,539.6	7,456.2	17.7	20.3	88.99	465.6	600.1	805.5	774.8	30.67	26.261		
7,505.0	7,460.6	7,544.6	7,461.2	17.7	20.3	88.99	465.6	600.1	805.5	774.8	30.68	26.255		
7,600.0	7,555.6	7,639.6	7,556.2	17.8	20.3	88.99	465.6	600.1	805.5	774.7	30.81	26.143		
7,695.0	7,650.6	7,734.6	7,651.2	17.8	20.4	88.99	465.6	600.1	805.5	774.5	30.94	26.032		
7,700.0	7,655.6	7,739.6	7,656.2	17.8	20.4	88.99	465.6	600.1	805.5	774.5	30.95	26.026		
7,790.0	7,745.6	7,829.6	7,746.2	17.9	20.4	88.99	465.6	600.1	805.5	774.4	31.07	25.922		
7,800.0	7,755.6	7,839.6	7,756.2	17.9	20.4	88.99	465.6	600.1	805.5	774.4	31.09	25.910		
7,885.0	7,840.6	7,924.6	7,841.2	18.0	20.5	88.99	465.6	600.1	805.5	774.3	31.20	25.812		
7,900.0	7,855.6	7,939.6	7,856.2	18.0	20.5	88.99	465.6	600.1	805.5	774.3	31.23	25.795		
7,980.0	7,935.6	8,019.6	7,936.2	18.0	20.5	88.99	465.6	600.1	805.5	774.1	31.34	25.704		
8,000.0	7,955.6	8,039.6	7,956.2	18.0	20.6	88.99	465.6	600.1	805.5	774.1	31.36	25.681		
8,075.0	8,030.6	8,114.6	8,031.2	18.1	20.6	88.99	465.6	600.1	805.5	774.0	31.47	25.596		
8,100.0	8,055.6	8,139.6	8,056.2	18.1	20.6	88.99	465.6	600.1	805.5	774.0	31.50	25.568		
8,170.0	8,125.6	8,209.6	8,126.2	18.1	20.6	88.99	465.6	600.1	805.5	773.9	31.60	25.489		
8,200.0	8,155.6	8,239.6	8,156.2	18.2	20.7	88.99	465.6	600.1	805.5	773.8	31.64	25.455		
8,265.0	8,220.6	8,304.6	8,221.2	18.2	20.7	88.99	465.6	600.1	805.5	773.7	31.73	25.382		
8,300.0	8,255.6	8,339.6	8,256.2	18.2	20.7	88.99	465.6	600.1	805.5	773.7	31.78	25.343		
8,360.0	8,315.6	8,399.6	8,316.2	18.3	20.7	88.99	465.6	600.1	805.5	773.6	31.87	25.277		
8,400.0	8,355.6	8,439.6	8,356.2	18.3	20.8	88.99	465.6	600.1	805.5	773.6	31.92	25.232		
8,455.0	8,410.6	8,494.6	8,411.2	18.3	20.8	88.99	465.6	600.1	805.5	773.5	32.00	25.172		
8,500.0	8,455.6	8,539.6	8,456.2	18.4	20.8	88.99	465.6	600.1	805.5	773.4	32.06	25.122		
8,550.0	8,505.6	8,589.6	8,506.2	18.4	20.8	88.99	465.6	600.1	805.5	773.3	32.13	25.068		
8,600.0	8,555.6	8,639.6	8,556.2	18.4	20.9	88.99	465.6	600.1	805.5	773.3	32.20	25.013		
8,645.0	8,600.6	8,684.6	8,601.2	18.4	20.9	88.99	465.6	600.1	805.5	773.2	32.27	24.964		
8,700.0	8,655.6	8,739.6	8,656.2	18.5	20.9	88.99	465.6	600.1	805.5	773.1	32.34	24.905		
8,740.0	8,695.6	8,779.6	8,696.2	18.5	20.9	88.99	465.6	600.1	805.5	773.1	32.40	24.861		
8,800.0	8,755.6	8,839.6	8,756.2	18.5	21.0	88.99	465.6	600.1	805.5	773.0	32.48	24.797		
8,835.0	8,790.6	8,874.6	8,791.2	18.6	21.0	88.99	465.6	600.1	805.5	772.9	32.53	24.760		
8,900.0	8,855.6	8,939.6	8,856.2	18.6	21.0	88.99	465.6	600.1	805.5	772.9	32.62	24.690		
8,930.0	8,885.6	8,969.6	8,886.2	18.6	21.0	88.99	465.6	600.1	805.5	772.8	32.67	24.658		
9,000.0	8,955.6	9,039.6	8,956.2	18.7	21.1	88.99	465.6	600.1	805.5	772.7	32.76	24.584		
9,025.0	8,980.6	9,064.6	8,981.2	18.7	21.1	88.99	465.6	600.1	805.5	772.7	32.80	24.558		
9,100.0	9,055.6	9,139.6	9,056.2	18.7	21.1	88.99	465.6	600.1	805.5	772.6	32.91	24.479		
9,120.0	9,075.6	9,159.6	9,076.2	18.8	21.1	88.99	465.6	600.1	805.5	772.5	32.93	24.458		
9,200.0	9,155.6	9,239.6	9,156.2	18.8	21.2	88.99	465.6	600.1	805.5	772.4	33.05	24.374		
9,215.0	9,170.6	9,254.6	9,171.2	18.8	21.2	88.99	465.6	600.1	805.5	772.4	33.06	24.362		
9,257.4	9,213.0	9,297.0	9,213.6	18.8	21.2	88.99	465.6	600.1	805.5	772.4	33.11	24.326		
9,300.0	9,255.6	9,337.3	9,254.0	18.9	21.2	-91.56	465.2	600.1	805.6	772.4	33.14	24.307		
9,310.0	9,265.6	9,346.3	9,263.0	18.9	21.2	-91.57	464.8	600.1	805.6	772.5	33.15	24.304		
9,350.0	9,305.2	9,382.5	9,299.0	18.9	21.3	-91.65	461.8	600.4	806.0	772.8	33.17	24.301		
9,400.0	9,354.2	9,427.9	9,343.8	19.0	21.3	-91.72	454.9	601.1	806.9	773.7	33.19	24.312		
9,405.0	9,359.0	9,432.4	9,348.3	19.0	21.3	-91.73	454.0	601.2	807.0	773.8	33.19	24.314		
9,450.0	9,402.0	9,473.4	9,388.1	19.1	21.3	-91.78	444.3	602.1	808.2	775.0	33.20	24.339		
9,500.0	9,448.5	9,519.1	9,431.5	19.1	21.3	-91.83	430.3	603.4	809.9	776.7	33.22	24.382		
9,550.0	9,493.1	9,565.0	9,473.9	19.2	21.4	-91.86	412.8	605.1	812.0	778.7	33.22	24.439		
9,595.0	9,531.4	9,606.5	9,510.9	19.2	21.4	-91.87	394.1	606.9	814.2	781.0	33.23	24.501		
9,600.0	9,535.6	9,611.1	9,514.9	19.3	21.4	-91.87	391.8	607.1	814.5	781.2	33.23	24.509		
9,650.0	9,575.6	9,657.5	9,554.4	19.3	21.4	-91.87	367.5	609.4	817.3	784.1	33.24	24.591		
9,690.0	9,605.7	9,694.8	9,584.6	19.4	21.4	-91.85	345.7	611.5	819.9	786.7	33.24	24.664		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
9,700.0	9,612.9	9,704.2	9,591.9	19.4	21.4	-91.85	339.9	612.0	820.6	787.3	33.24	24.683	
9,750.0	9,647.2	9,750.0	9,626.4	19.4	21.5	-91.80	309.9	614.9	824.1	790.9	33.26	24.780	
9,785.0	9,669.2	9,784.3	9,650.6	19.5	21.5	-91.78	285.8	617.2	826.8	793.6	33.26	24.856	
9,800.0	9,678.1	9,798.5	9,660.3	19.5	21.5	-91.76	275.3	618.2	828.0	794.8	33.27	24.889	
9,850.0	9,705.5	9,846.2	9,690.5	19.6	21.6	-91.70	238.6	621.7	832.2	798.9	33.29	24.998	
9,880.0	9,720.2	9,875.0	9,707.3	19.6	21.6	-91.65	215.3	623.9	834.8	801.5	33.31	25.064	
9,900.0	9,729.1	9,894.3	9,717.8	19.6	21.6	-91.62	199.3	625.5	836.6	803.3	33.32	25.109	
9,950.0	9,748.9	9,942.8	9,741.9	19.6	21.6	-91.53	157.4	629.5	841.3	807.9	33.36	25.219	
9,975.0	9,757.2	9,967.2	9,752.7	19.7	21.7	-91.48	135.5	631.5	843.7	810.3	33.39	25.271	
10,000.0	9,764.5	9,991.7	9,762.5	19.7	21.7	-91.42	113.2	633.7	846.2	812.8	33.41	25.325	
10,050.0	9,776.0	10,041.2	9,779.4	19.7	21.7	-91.31	67.0	638.1	851.2	817.7	33.48	25.425	
10,070.0	9,779.3	10,061.1	9,785.1	19.7	21.8	-91.26	48.0	639.9	853.2	819.7	33.51	25.463	
10,100.0	9,783.1	10,091.1	9,792.4	19.7	21.8	-91.18	19.0	642.7	856.3	822.8	33.56	25.519	
10,150.0	9,786.0	10,141.5	9,801.1	19.8	21.8	-91.05	-30.4	647.4	861.6	827.9	33.65	25.602	
10,157.1	9,786.0	10,148.7	9,802.0	19.8	21.8	-91.03	-37.5	648.1	862.3	828.6	33.67	25.614	
10,165.0	9,786.0	10,156.7	9,802.9	19.8	21.9	-91.09	-45.5	648.8	863.1	829.5	33.68	25.626	
10,200.0	9,786.0	10,192.6	9,805.5	19.8	21.9	-91.26	-81.1	652.2	866.8	833.0	33.76	25.673	
10,260.0	9,786.1	10,269.2	9,806.0	19.8	22.0	-91.28	-157.4	659.0	872.7	838.7	33.93	25.721	
10,300.0	9,786.1	10,326.6	9,806.0	19.8	22.1	-91.27	-214.6	662.8	875.7	841.6	34.05	25.717	
10,355.0	9,786.1	10,405.7	9,806.1	19.9	22.2	-91.27	-293.7	666.2	878.5	844.2	34.26	25.644	
10,400.0	9,786.1	10,470.6	9,806.1	19.9	22.3	-91.26	-358.6	667.3	879.6	845.2	34.44	25.538	
10,450.0	9,786.2	10,533.4	9,806.1	19.9	22.4	-91.26	-421.4	667.1	879.8	845.2	34.67	25.377	
10,500.0	9,786.2	10,583.4	9,806.1	19.9	22.5	-91.26	-471.4	666.7	879.8	844.9	34.91	25.205	
10,545.0	9,786.2	10,628.4	9,806.2	20.0	22.5	-91.26	-516.4	666.3	879.8	844.7	35.14	25.035	
10,600.0	9,786.2	10,683.4	9,806.2	20.0	22.6	-91.26	-571.4	665.9	879.8	844.4	35.44	24.826	
10,640.0	9,786.3	10,723.4	9,806.2	20.0	22.7	-91.26	-611.4	665.6	879.8	844.2	35.67	24.664	
10,700.0	9,786.3	10,783.4	9,806.2	20.1	22.8	-91.26	-671.4	665.1	879.8	843.8	36.03	24.420	
10,735.0	9,786.3	10,818.4	9,806.2	20.1	22.9	-91.26	-706.4	664.8	879.8	843.6	36.25	24.270	
10,800.0	9,786.3	10,883.4	9,806.3	20.2	23.0	-91.26	-771.4	664.2	879.8	843.2	36.67	23.991	
10,830.0	9,786.4	10,913.4	9,806.3	20.2	23.1	-91.26	-801.4	664.0	879.8	843.0	36.88	23.857	
10,900.0	9,786.4	10,983.4	9,806.3	20.3	23.2	-91.26	-871.4	663.4	879.8	842.5	37.37	23.544	
10,925.0	9,786.4	11,008.4	9,806.3	20.3	23.3	-91.26	-896.4	663.2	879.8	842.3	37.55	23.429	
11,000.0	9,786.4	11,083.4	9,806.3	20.4	23.5	-91.26	-971.4	662.6	879.8	841.7	38.11	23.084	
11,020.0	9,786.5	11,103.4	9,806.3	20.4	23.5	-91.26	-991.4	662.4	879.8	841.6	38.27	22.991	
11,100.0	9,786.5	11,183.4	9,806.4	20.5	23.7	-91.26	-1,071.4	661.8	879.8	840.9	38.90	22.615	
11,115.0	9,786.5	11,198.4	9,806.4	20.6	23.8	-91.26	-1,086.4	661.6	879.8	840.8	39.03	22.544	
11,200.0	9,786.5	11,283.4	9,806.4	20.7	24.0	-91.26	-1,171.4	660.9	879.8	840.1	39.74	22.141	
11,210.0	9,786.6	11,293.4	9,806.4	20.7	24.0	-91.25	-1,181.4	660.8	879.8	840.0	39.82	22.093	
11,300.0	9,786.6	11,383.4	9,806.5	20.9	24.3	-91.25	-1,271.4	660.1	879.8	839.2	40.61	21.665	
11,305.0	9,786.6	11,388.4	9,806.5	20.9	24.3	-91.25	-1,276.4	660.1	879.8	839.2	40.66	21.641	
11,400.0	9,786.7	11,483.4	9,806.5	21.1	24.6	-91.25	-1,371.4	659.3	879.8	838.3	41.52	21.189	
11,495.0	9,786.7	11,578.4	9,806.5	21.4	24.9	-91.25	-1,466.4	658.5	879.8	837.4	42.42	20.740	
11,500.0	9,786.7	11,583.4	9,806.5	21.4	24.9	-91.25	-1,471.4	658.5	879.8	837.4	42.47	20.717	
11,590.0	9,786.8	11,673.4	9,806.6	21.6	25.3	-91.25	-1,561.4	657.7	879.8	836.5	43.35	20.295	
11,600.0	9,786.8	11,683.4	9,806.6	21.7	25.3	-91.25	-1,571.4	657.6	879.8	836.4	43.45	20.249	
11,685.0	9,786.8	11,768.4	9,806.6	21.9	25.6	-91.25	-1,656.3	656.9	879.8	835.5	44.31	19.857	
11,700.0	9,786.8	11,783.4	9,806.6	22.0	25.7	-91.25	-1,671.3	656.8	879.8	835.4	44.46	19.789	
11,780.0	9,786.9	11,863.4	9,806.6	22.3	26.0	-91.25	-1,751.3	656.1	879.8	834.6	45.29	19.426	
11,800.0	9,786.9	11,883.4	9,806.7	22.4	26.1	-91.25	-1,771.3	656.0	879.9	834.3	45.50	19.337	
11,875.0	9,786.9	11,958.4	9,806.7	22.7	26.4	-91.25	-1,846.3	655.4	879.9	833.6	46.30	19.003	
11,900.0	9,786.9	11,983.4	9,806.7	22.8	26.5	-91.25	-1,871.3	655.1	879.9	833.3	46.57	18.894	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
11,970.0	9,787.0	12,053.4	9,806.7	23.1	26.8	-91.25	-1,941.3	654.6	879.9	832.5	47.33	18.590
12,000.0	9,787.0	12,083.4	9,806.7	23.2	26.9	-91.25	-1,971.3	654.3	879.9	832.2	47.66	18.462
12,065.0	9,787.0	12,148.4	9,806.8	23.5	27.2	-91.25	-2,036.3	653.8	879.9	831.5	48.38	18.186
12,100.0	9,787.0	12,183.4	9,806.8	23.7	27.3	-91.25	-2,071.3	653.5	879.9	831.1	48.77	18.040
12,160.0	9,787.0	12,243.4	9,806.8	24.0	27.6	-91.25	-2,131.3	653.0	879.9	830.4	49.45	17.792
12,200.0	9,787.1	12,283.4	9,806.8	24.2	27.8	-91.25	-2,171.3	652.7	879.9	829.9	49.91	17.629
12,255.0	9,787.1	12,338.4	9,806.8	24.5	28.1	-91.25	-2,226.3	652.2	879.9	829.3	50.54	17.408
12,300.0	9,787.1	12,383.4	9,806.8	24.7	28.3	-91.25	-2,271.3	651.8	879.9	828.8	51.06	17.230
12,350.0	9,787.1	12,433.4	9,806.9	25.0	28.5	-91.25	-2,321.3	651.4	879.9	828.2	51.65	17.034
12,400.0	9,787.2	12,483.4	9,806.9	25.3	28.8	-91.24	-2,371.3	651.0	879.9	827.6	52.24	16.843
12,445.0	9,787.2	12,528.4	9,806.9	25.6	29.0	-91.24	-2,416.3	650.6	879.9	827.1	52.78	16.672
12,500.0	9,787.2	12,583.4	9,806.9	25.9	29.3	-91.24	-2,471.3	650.2	879.9	826.4	53.43	16.467
12,540.0	9,787.2	12,623.4	9,806.9	26.1	29.5	-91.24	-2,511.3	649.9	879.9	825.9	53.92	16.319
12,600.0	9,787.3	12,683.4	9,807.0	26.5	29.8	-91.24	-2,571.3	649.4	879.9	825.2	54.64	16.102
12,635.0	9,787.3	12,718.4	9,807.0	26.7	30.0	-91.24	-2,606.3	649.1	879.9	824.8	55.07	15.977
12,700.0	9,787.3	12,783.4	9,807.0	27.0	30.3	-91.24	-2,671.3	648.5	879.9	824.0	55.87	15.749
12,730.0	9,787.3	12,813.4	9,807.0	27.2	30.5	-91.24	-2,701.3	648.3	879.9	823.6	56.24	15.645
12,800.0	9,787.4	12,883.4	9,807.0	27.7	30.8	-91.24	-2,771.3	647.7	879.9	822.8	57.11	15.407
12,825.0	9,787.4	12,908.4	9,807.1	27.8	31.0	-91.24	-2,796.3	647.5	879.9	822.4	57.42	15.323
12,900.0	9,787.4	12,983.4	9,807.1	28.3	31.4	-91.24	-2,871.3	646.9	879.9	821.5	58.36	15.076
12,920.0	9,787.4	13,003.4	9,807.1	28.4	31.5	-91.24	-2,891.3	646.7	879.9	821.2	58.61	15.011
13,000.0	9,787.5	13,083.4	9,807.1	28.9	32.0	-91.24	-2,971.3	646.1	879.9	820.2	59.63	14.756
13,015.0	9,787.5	13,098.4	9,807.1	29.0	32.0	-91.24	-2,986.3	645.9	879.9	820.0	59.82	14.709
13,100.0	9,787.5	13,183.4	9,807.2	29.5	32.5	-91.24	-3,071.3	645.2	879.9	819.0	60.90	14.447
13,110.0	9,787.5	13,193.4	9,807.2	29.6	32.6	-91.24	-3,081.3	645.1	879.9	818.8	61.03	14.416
13,200.0	9,787.6	13,283.4	9,807.2	30.2	33.1	-91.24	-3,171.3	644.4	879.9	817.7	62.19	14.147
13,205.0	9,787.6	13,288.4	9,807.2	30.2	33.1	-91.24	-3,176.3	644.4	879.9	817.6	62.26	14.133
13,300.0	9,787.6	13,383.4	9,807.2	30.8	33.7	-91.24	-3,271.3	643.6	879.9	816.4	63.49	13.858
13,395.0	9,787.7	13,478.4	9,807.3	31.5	34.3	-91.24	-3,366.3	642.8	879.9	815.1	64.74	13.591
13,400.0	9,787.7	13,483.4	9,807.3	31.5	34.3	-91.24	-3,371.3	642.8	879.9	815.1	64.80	13.578
13,490.0	9,787.7	13,573.4	9,807.3	32.1	34.8	-91.24	-3,461.3	642.0	879.9	813.9	65.99	13.333
13,500.0	9,787.8	13,583.4	9,807.3	32.2	34.9	-91.24	-3,471.3	641.9	879.9	813.7	66.12	13.307
13,585.0	9,787.8	13,668.4	9,807.4	32.7	35.4	-91.23	-3,556.3	641.2	879.9	812.6	67.25	13.084
13,600.0	9,787.8	13,683.4	9,807.4	32.8	35.5	-91.23	-3,571.3	641.1	879.9	812.4	67.45	13.045
13,680.0	9,787.8	13,763.4	9,807.4	33.4	36.0	-91.23	-3,651.3	640.4	879.9	811.4	68.52	12.842
13,700.0	9,787.9	13,783.4	9,807.4	33.5	36.1	-91.23	-3,671.3	640.3	879.9	811.1	68.78	12.792
13,775.0	9,787.9	13,858.4	9,807.4	34.0	36.6	-91.23	-3,746.3	639.7	879.9	810.1	69.79	12.607
13,800.0	9,787.9	13,883.4	9,807.4	34.2	36.7	-91.23	-3,771.3	639.4	879.9	809.7	70.13	12.547
13,870.0	9,787.9	13,953.4	9,807.5	34.7	37.2	-91.23	-3,841.3	638.9	879.9	808.8	71.07	12.380
13,900.0	9,788.0	13,983.4	9,807.5	34.9	37.4	-91.23	-3,871.3	638.6	879.9	808.4	71.48	12.309
13,965.0	9,788.0	14,048.4	9,807.5	35.3	37.8	-91.23	-3,936.3	638.1	879.9	807.5	72.36	12.159
14,000.0	9,788.0	14,083.4	9,807.5	35.6	38.0	-91.23	-3,971.3	637.8	879.9	807.0	72.84	12.080
14,060.0	9,788.0	14,143.4	9,807.5	36.0	38.4	-91.23	-4,031.3	637.3	879.9	806.2	73.66	11.946
14,100.0	9,788.1	14,183.4	9,807.6	36.3	38.7	-91.23	-4,071.3	637.0	879.9	805.7	74.20	11.858
14,155.0	9,788.1	14,238.4	9,807.6	36.6	39.0	-91.23	-4,126.3	636.5	879.9	804.9	74.96	11.739
14,200.0	9,788.1	14,283.4	9,807.6	37.0	39.3	-91.23	-4,171.3	636.1	879.9	804.3	75.57	11.643
14,250.0	9,788.1	14,333.4	9,807.6	37.3	39.6	-91.23	-4,221.3	635.7	879.9	803.6	76.26	11.538
14,300.0	9,788.2	14,383.4	9,807.6	37.7	40.0	-91.23	-4,271.3	635.3	879.9	802.9	76.95	11.434
14,345.0	9,788.2	14,428.4	9,807.7	38.0	40.2	-91.23	-4,316.3	634.9	879.9	802.3	77.57	11.343
14,400.0	9,788.2	14,483.4	9,807.7	38.4	40.6	-91.23	-4,371.3	634.5	879.9	801.5	78.33	11.233
14,440.0	9,788.2	14,523.4	9,807.7	38.6	40.9	-91.23	-4,411.3	634.2	879.9	801.0	78.89	11.154

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
14,500.0	9,788.3	14,583.4	9,807.7	39.1	41.3	-91.23	-4,471.3	633.7	879.9	800.2	79.72	11.037
14,535.0	9,788.3	14,618.4	9,807.7	39.3	41.5	-91.23	-4,506.3	633.4	879.9	799.7	80.21	10.970
14,600.0	9,788.3	14,683.4	9,807.8	39.8	41.9	-91.23	-4,571.3	632.8	879.9	798.8	81.11	10.848
14,630.0	9,788.3	14,713.4	9,807.8	40.0	42.1	-91.23	-4,601.2	632.6	879.9	798.4	81.53	10.792
14,700.0	9,788.4	14,783.4	9,807.8	40.5	42.6	-91.22	-4,671.2	632.0	879.9	797.4	82.51	10.664
14,725.0	9,788.4	14,808.4	9,807.8	40.6	42.8	-91.22	-4,696.2	631.8	879.9	797.0	82.86	10.619
14,800.0	9,788.4	14,883.4	9,807.8	41.2	43.3	-91.22	-4,771.2	631.2	879.9	796.0	83.91	10.486
14,820.0	9,788.4	14,903.4	9,807.8	41.3	43.4	-91.22	-4,791.2	631.0	879.9	795.7	84.19	10.451
14,900.0	9,788.5	14,983.4	9,807.9	41.9	43.9	-91.22	-4,871.2	630.4	879.9	794.6	85.32	10.313
14,915.0	9,788.5	14,998.4	9,807.9	42.0	44.1	-91.22	-4,886.2	630.2	879.9	794.4	85.53	10.288
15,000.0	9,788.5	15,083.4	9,807.9	42.6	44.6	-91.22	-4,971.2	629.5	879.9	793.2	86.73	10.145
15,010.0	9,788.5	15,093.4	9,807.9	42.7	44.7	-91.22	-4,981.2	629.4	879.9	793.0	86.87	10.129
15,100.0	9,788.6	15,183.4	9,807.9	43.3	45.3	-91.22	-5,071.2	628.7	879.9	791.7	88.14	9.983
15,105.0	9,788.6	15,188.4	9,807.9	43.4	45.3	-91.22	-5,076.2	628.7	879.9	791.7	88.21	9.975
15,200.0	9,788.6	15,283.4	9,808.0	44.0	46.0	-91.22	-5,171.2	627.9	879.9	790.3	89.56	9.825
15,295.0	9,788.7	15,378.4	9,808.0	44.7	46.6	-91.22	-5,266.2	627.1	879.9	789.0	90.91	9.679
15,300.0	9,788.7	15,383.4	9,808.0	44.8	46.7	-91.22	-5,271.2	627.1	879.9	788.9	90.98	9.671
15,390.0	9,788.7	15,473.4	9,808.1	45.4	47.3	-91.22	-5,361.2	626.3	879.9	787.6	92.26	9.537
15,400.0	9,788.7	15,483.4	9,808.1	45.5	47.4	-91.22	-5,371.2	626.2	879.9	787.5	92.41	9.522
15,485.0	9,788.8	15,568.4	9,808.1	46.1	48.0	-91.22	-5,456.2	625.5	879.9	786.3	93.62	9.399
15,500.0	9,788.8	15,583.4	9,808.1	46.2	48.1	-91.22	-5,471.2	625.4	879.9	786.1	93.83	9.377
15,580.0	9,788.8	15,663.4	9,808.1	46.8	48.6	-91.22	-5,551.2	624.7	879.9	784.9	94.98	9.264
15,600.0	9,788.9	15,683.4	9,808.1	46.9	48.8	-91.22	-5,571.2	624.6	879.9	784.6	95.27	9.236
15,675.0	9,788.9	15,758.4	9,808.2	47.5	49.3	-91.22	-5,646.2	624.0	879.9	783.6	96.34	9.133
15,700.0	9,788.9	15,783.4	9,808.2	47.6	49.5	-91.22	-5,671.2	623.7	879.9	783.2	96.70	9.099
15,770.0	9,788.9	15,853.4	9,808.2	48.2	49.9	-91.22	-5,741.2	623.2	879.9	782.2	97.70	9.006
15,800.0	9,789.0	15,883.4	9,808.2	48.4	50.2	-91.22	-5,771.2	622.9	879.9	781.8	98.14	8.966
15,865.0	9,789.0	15,948.4	9,808.2	48.8	50.6	-91.21	-5,836.2	622.4	879.9	780.8	99.07	8.881
15,900.0	9,789.0	15,983.4	9,808.3	49.1	50.9	-91.21	-5,871.2	622.1	879.9	780.3	99.58	8.836
15,960.0	9,789.0	16,043.4	9,808.3	49.5	51.3	-91.21	-5,931.2	621.6	879.9	779.5	100.44	8.760
16,000.0	9,789.1	16,083.4	9,808.3	49.8	51.6	-91.21	-5,971.2	621.3	879.9	778.9	101.02	8.710
16,055.0	9,789.1	16,138.4	9,808.3	50.2	51.9	-91.21	-6,026.2	620.8	879.9	778.1	101.81	8.642
16,100.0	9,789.1	16,183.4	9,808.3	50.6	52.3	-91.21	-6,071.2	620.4	879.9	777.4	102.46	8.587
16,150.0	9,789.1	16,233.4	9,808.4	50.9	52.6	-91.21	-6,121.2	620.0	879.9	776.7	103.19	8.527
16,200.0	9,789.2	16,283.4	9,808.4	51.3	53.0	-91.21	-6,171.2	619.6	879.9	776.0	103.91	8.468
16,245.0	9,789.2	16,328.4	9,808.4	51.6	53.3	-91.21	-6,216.2	619.2	879.9	775.3	104.56	8.415
16,300.0	9,789.2	16,383.4	9,808.4	52.0	53.7	-91.21	-6,271.2	618.8	879.9	774.5	105.36	8.351
16,340.0	9,789.2	16,423.4	9,808.4	52.3	54.0	-91.21	-6,311.2	618.5	879.9	774.0	105.94	8.306
16,400.0	9,789.3	16,483.4	9,808.5	52.8	54.4	-91.21	-6,371.2	618.0	879.9	773.1	106.81	8.238
16,435.0	9,789.3	16,518.4	9,808.5	53.0	54.6	-91.21	-6,406.2	617.7	879.9	772.6	107.32	8.199
16,500.0	9,789.3	16,583.4	9,808.5	53.5	55.1	-91.21	-6,471.2	617.1	879.9	771.6	108.26	8.127
16,530.0	9,789.3	16,613.4	9,808.5	53.7	55.3	-91.21	-6,501.2	616.9	879.9	771.2	108.70	8.095
16,600.0	9,789.4	16,683.4	9,808.5	54.2	55.8	-91.21	-6,571.2	616.3	879.9	770.2	109.72	8.020
16,625.0	9,789.4	16,708.4	9,808.5	54.4	56.0	-91.21	-6,596.2	616.1	879.9	769.8	110.08	7.993
16,700.0	9,789.4	16,783.4	9,808.6	55.0	56.5	-91.21	-6,671.2	615.5	879.9	768.7	111.18	7.914
16,720.0	9,789.4	16,803.4	9,808.6	55.1	56.7	-91.21	-6,691.2	615.3	879.9	768.4	111.47	7.894
16,800.0	9,789.5	16,883.4	9,808.6	55.7	57.2	-91.21	-6,771.2	614.7	879.9	767.3	112.64	7.812
16,815.0	9,789.5	16,898.4	9,808.6	55.8	57.3	-91.21	-6,786.2	614.5	879.9	767.0	112.86	7.797
16,900.0	9,789.5	16,983.4	9,808.7	56.4	58.0	-91.21	-6,871.2	613.8	879.9	765.8	114.10	7.712
16,910.0	9,789.5	16,993.4	9,808.7	56.5	58.0	-91.21	-6,881.2	613.7	879.9	765.7	114.24	7.702
17,000.0	9,789.6	17,083.4	9,808.7	57.2	58.7	-91.20	-6,971.2	613.0	879.9	764.3	115.56	7.614

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance				Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,005.0	9,789.6	17,088.4	9,808.7	57.2	58.7	-91.20	-6,976.2	613.0	879.9	764.3	115.63	7.609		
17,100.0	9,789.6	17,183.4	9,808.7	57.9	59.4	-91.20	-7,071.2	612.2	879.9	762.9	117.03	7.519		
17,195.0	9,789.7	17,278.4	9,808.8	58.6	60.1	-91.20	-7,166.2	611.4	879.9	761.5	118.42	7.430		
17,200.0	9,789.7	17,283.4	9,808.8	58.6	60.1	-91.20	-7,171.2	611.3	879.9	761.4	118.49	7.426		
17,290.0	9,789.7	17,373.4	9,808.8	59.3	60.8	-91.20	-7,261.2	610.6	879.9	760.1	119.81	7.344		
17,300.0	9,789.7	17,383.4	9,808.8	59.4	60.8	-91.20	-7,271.2	610.5	879.9	759.9	119.96	7.335		
17,385.0	9,789.8	17,468.4	9,808.8	60.0	61.5	-91.20	-7,356.2	609.8	879.9	758.7	121.21	7.259		
17,400.0	9,789.8	17,483.4	9,808.8	60.1	61.6	-91.20	-7,371.2	609.7	879.9	758.5	121.43	7.246		
17,480.0	9,789.8	17,563.4	9,808.9	60.7	62.1	-91.20	-7,451.2	609.0	879.9	757.3	122.61	7.177		
17,500.0	9,789.9	17,583.4	9,808.9	60.9	62.3	-91.20	-7,471.2	608.9	879.9	757.0	122.90	7.160		
17,575.0	9,789.9	17,658.4	9,808.9	61.4	62.8	-91.20	-7,546.1	608.3	879.9	755.9	124.00	7.096		
17,600.0	9,789.9	17,683.4	9,808.9	61.6	63.0	-91.20	-7,571.1	608.0	879.9	755.5	124.37	7.075		
17,670.0	9,789.9	17,753.4	9,809.0	62.1	63.5	-91.20	-7,641.1	607.5	879.9	754.5	125.40	7.017		
17,700.0	9,790.0	17,783.4	9,809.0	62.4	63.7	-91.20	-7,671.1	607.2	879.9	754.1	125.85	6.992		
17,765.0	9,790.0	17,848.4	9,809.0	62.8	64.2	-91.20	-7,736.1	606.7	879.9	753.1	126.80	6.939		
17,800.0	9,790.0	17,883.4	9,809.0	63.1	64.5	-91.20	-7,771.1	606.4	879.9	752.6	127.32	6.911		
17,860.0	9,790.0	17,943.4	9,809.0	63.5	64.9	-91.20	-7,831.1	605.9	879.9	751.7	128.21	6.863		
17,900.0	9,790.1	17,983.4	9,809.0	63.8	65.2	-91.20	-7,871.1	605.6	879.9	751.1	128.80	6.832		
17,955.0	9,790.1	18,038.4	9,809.1	64.3	65.6	-91.20	-7,926.1	605.1	879.9	750.3	129.61	6.789		
18,000.0	9,790.1	18,083.4	9,809.1	64.6	65.9	-91.20	-7,971.1	604.7	879.9	749.6	130.27	6.754		
18,050.0	9,790.1	18,133.4	9,809.1	65.0	66.3	-91.20	-8,021.1	604.3	879.9	748.9	131.01	6.716		
18,100.0	9,790.2	18,183.4	9,809.1	65.3	66.6	-91.20	-8,071.1	603.9	879.9	748.2	131.75	6.679		
18,145.0	9,790.2	18,228.4	9,809.1	65.7	67.0	-91.20	-8,116.1	603.5	879.9	747.5	132.42	6.645		
18,200.0	9,790.2	18,283.4	9,809.2	66.1	67.4	-91.19	-8,171.1	603.1	879.9	746.7	133.23	6.604		
18,240.0	9,790.2	18,323.4	9,809.2	66.4	67.7	-91.19	-8,211.1	602.8	879.9	746.1	133.82	6.575		
18,300.0	9,790.3	18,383.4	9,809.2	66.8	68.1	-91.19	-8,271.1	602.3	879.9	745.2	134.71	6.532		
18,335.0	9,790.3	18,418.4	9,809.2	67.1	68.4	-91.19	-8,306.1	602.0	879.9	744.7	135.23	6.507		
18,400.0	9,790.3	18,483.4	9,809.2	67.6	68.8	-91.19	-8,371.1	601.4	879.9	743.7	136.19	6.461		
18,430.0	9,790.3	18,513.4	9,809.3	67.8	69.1	-91.19	-8,401.1	601.2	879.9	743.3	136.64	6.440		
18,500.0	9,790.4	18,583.4	9,809.3	68.3	69.6	-91.19	-8,471.1	600.6	879.9	742.2	137.68	6.391		
18,525.0	9,790.4	18,608.4	9,809.3	68.5	69.8	-91.19	-8,496.1	600.4	879.9	741.9	138.05	6.374		
18,600.0	9,790.4	18,683.4	9,809.3	69.1	70.3	-91.19	-8,571.1	599.8	879.9	740.8	139.16	6.323		
18,620.0	9,790.4	18,703.4	9,809.3	69.2	70.5	-91.19	-8,591.1	599.6	879.9	740.5	139.46	6.310		
18,700.0	9,790.5	18,783.4	9,809.4	69.8	71.0	-91.19	-8,671.1	599.0	879.9	739.3	140.64	6.256		
18,715.0	9,790.5	18,798.4	9,809.4	69.9	71.2	-91.19	-8,686.1	598.8	879.9	739.1	140.87	6.246		
18,800.0	9,790.5	18,883.4	9,809.4	70.6	71.8	-91.19	-8,771.1	598.1	879.9	737.8	142.13	6.191		
18,810.0	9,790.5	18,893.4	9,809.4	70.6	71.8	-91.19	-8,781.1	598.0	879.9	737.6	142.28	6.185		
18,900.0	9,790.6	18,983.4	9,809.4	71.3	72.5	-91.19	-8,871.1	597.3	879.9	736.3	143.62	6.127		
18,905.0	9,790.6	18,988.4	9,809.4	71.3	72.5	-91.19	-8,876.1	597.3	879.9	736.2	143.69	6.124		
19,000.0	9,790.6	19,083.4	9,809.5	72.0	73.2	-91.19	-8,971.1	596.5	879.9	734.8	145.10	6.064		
19,095.0	9,790.7	19,178.4	9,809.5	72.8	73.9	-91.19	-9,066.1	595.7	879.9	733.4	146.52	6.006		
19,100.0	9,790.7	19,183.4	9,809.5	72.8	74.0	-91.19	-9,071.1	595.6	879.9	733.3	146.59	6.003		
19,190.0	9,790.7	19,273.4	9,809.6	73.5	74.6	-91.19	-9,161.1	594.9	879.9	732.0	147.93	5.948		
19,200.0	9,790.7	19,283.4	9,809.6	73.5	74.7	-91.19	-9,171.1	594.8	879.9	731.9	148.08	5.942		
19,285.0	9,790.8	19,368.4	9,809.6	74.2	75.3	-91.19	-9,256.1	594.1	879.9	730.6	149.35	5.892		
19,300.0	9,790.8	19,383.4	9,809.6	74.3	75.5	-91.19	-9,271.1	594.0	879.9	730.4	149.57	5.883		
19,380.0	9,790.8	19,463.4	9,809.6	74.9	76.0	-91.18	-9,351.1	593.3	879.9	729.2	150.76	5.837		
19,400.0	9,790.8	19,483.4	9,809.6	75.0	76.2	-91.18	-9,371.1	593.2	879.9	728.9	151.06	5.825		
19,475.0	9,790.9	19,558.4	9,809.7	75.6	76.8	-91.18	-9,446.1	592.6	879.9	727.8	152.18	5.782		
19,500.0	9,790.9	19,583.4	9,809.7	75.8	76.9	-91.18	-9,471.1	592.3	879.9	727.4	152.55	5.768		
19,570.0	9,790.9	19,653.4	9,809.7	76.3	77.5	-91.18	-9,541.1	591.8	879.9	726.3	153.60	5.729		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
19,600.0	9,791.0	19,683.4	9,809.7	76.5	77.7	-91.18	-9,571.1	591.5	879.9	725.9	154.04	5.712
19,665.0	9,791.0	19,748.4	9,809.7	77.0	78.2	-91.18	-9,636.1	591.0	879.9	724.9	155.01	5.676
19,700.0	9,791.0	19,783.4	9,809.8	77.3	78.4	-91.18	-9,671.1	590.7	879.9	724.4	155.54	5.657
19,760.0	9,791.0	19,843.4	9,809.8	77.7	78.9	-91.18	-9,731.1	590.2	879.9	723.5	156.43	5.625
19,800.0	9,791.1	19,883.4	9,809.8	78.0	79.2	-91.18	-9,771.1	589.9	879.9	722.9	157.03	5.604
19,855.0	9,791.1	19,938.4	9,809.8	78.5	79.6	-91.18	-9,826.1	589.4	879.9	722.1	157.85	5.574
19,900.0	9,791.1	19,983.4	9,809.8	78.8	79.9	-91.18	-9,871.1	589.0	879.9	721.4	158.52	5.551
19,950.0	9,791.1	20,033.4	9,809.8	79.2	80.3	-91.18	-9,921.1	588.6	879.9	720.7	159.27	5.525
20,000.0	9,791.2	20,083.4	9,809.9	79.5	80.6	-91.18	-9,971.1	588.2	879.9	719.9	160.02	5.499
20,045.0	9,791.2	20,128.4	9,809.9	79.9	81.0	-91.18	-10,016.1	587.8	879.9	719.2	160.69	5.476
20,100.0	9,791.2	20,183.4	9,809.9	80.3	81.4	-91.18	-10,071.1	587.4	879.9	718.4	161.51	5.448
20,140.0	9,791.2	20,223.4	9,809.9	80.6	81.7	-91.18	-10,111.1	587.1	879.9	717.8	162.11	5.428
20,200.0	9,791.3	20,283.4	9,809.9	81.0	82.1	-91.18	-10,171.1	586.6	879.9	716.9	163.01	5.398
20,235.0	9,791.3	20,318.4	9,810.0	81.3	82.4	-91.18	-10,206.1	586.3	879.9	716.4	163.53	5.381
20,300.0	9,791.3	20,383.4	9,810.0	81.8	82.9	-91.18	-10,271.1	585.7	879.9	715.4	164.51	5.349
20,330.0	9,791.3	20,413.4	9,810.0	82.0	83.1	-91.18	-10,301.1	585.5	879.9	715.0	164.96	5.334
20,400.0	9,791.4	20,483.4	9,810.0	82.6	83.6	-91.18	-10,371.1	584.9	879.9	713.9	166.00	5.301
20,425.0	9,791.4	20,508.4	9,810.0	82.7	83.8	-91.18	-10,396.1	584.7	879.9	713.6	166.38	5.289
20,500.0	9,791.4	20,583.4	9,810.1	83.3	84.3	-91.17	-10,471.0	584.1	879.9	712.4	167.50	5.253
20,520.0	9,791.4	20,603.4	9,810.1	83.5	84.5	-91.17	-10,491.0	583.9	879.9	712.1	167.80	5.244
20,600.0	9,791.5	20,683.4	9,810.1	84.1	85.1	-91.17	-10,571.0	583.3	879.9	710.9	169.00	5.207
20,615.0	9,791.5	20,698.4	9,810.1	84.2	85.2	-91.17	-10,586.0	583.1	879.9	710.7	169.22	5.200
20,700.0	9,791.5	20,783.4	9,810.1	84.8	85.8	-91.17	-10,671.0	582.4	879.9	709.5	170.50	5.161
20,710.0	9,791.5	20,793.4	9,810.1	84.9	85.9	-91.17	-10,681.0	582.3	879.9	709.3	170.65	5.157
20,800.0	9,791.6	20,883.4	9,810.2	85.6	86.6	-91.17	-10,771.0	581.6	879.9	708.0	172.00	5.116
20,805.0	9,791.6	20,888.4	9,810.2	85.6	86.6	-91.17	-10,776.0	581.6	879.9	707.9	172.07	5.114
20,900.0	9,791.6	20,983.4	9,810.2	86.3	87.3	-91.17	-10,871.0	580.8	879.9	706.5	173.50	5.072
20,995.0	9,791.7	21,078.4	9,810.3	87.0	88.0	-91.17	-10,966.0	580.0	880.0	705.0	174.92	5.031
21,000.0	9,791.7	21,083.4	9,810.3	87.1	88.1	-91.17	-10,971.0	579.9	880.0	705.0	175.00	5.028
21,090.0	9,791.7	21,173.4	9,810.3	87.7	88.7	-91.17	-11,061.0	579.2	880.0	703.6	176.35	4.990
21,100.0	9,791.7	21,183.4	9,810.3	87.8	88.8	-91.17	-11,071.0	579.1	880.0	703.5	176.50	4.986
21,185.0	9,791.8	21,268.4	9,810.3	88.5	89.5	-91.17	-11,156.0	578.4	880.0	702.2	177.77	4.950
21,200.0	9,791.8	21,283.4	9,810.3	88.6	89.6	-91.17	-11,171.0	578.3	880.0	702.0	178.00	4.944
21,280.0	9,791.8	21,363.4	9,810.4	89.2	90.2	-91.17	-11,251.0	577.6	880.0	700.8	179.20	4.910
21,300.0	9,791.8	21,383.4	9,810.4	89.3	90.3	-91.17	-11,271.0	577.5	880.0	700.5	179.50	4.902
21,375.0	9,791.9	21,458.4	9,810.4	89.9	90.9	-91.17	-11,346.0	576.8	880.0	699.3	180.63	4.872
21,400.0	9,791.9	21,483.4	9,810.4	90.1	91.1	-91.17	-11,371.0	576.6	880.0	699.0	181.00	4.862
21,470.0	9,791.9	21,553.4	9,810.4	90.6	91.6	-91.17	-11,441.0	576.1	880.0	697.9	182.05	4.834
21,500.0	9,791.9	21,583.4	9,810.5	90.8	91.8	-91.17	-11,471.0	575.8	880.0	697.5	182.50	4.822
21,565.0	9,792.0	21,648.4	9,810.5	91.3	92.3	-91.17	-11,536.0	575.3	880.0	696.5	183.48	4.796
21,600.0	9,792.0	21,683.4	9,810.5	91.6	92.5	-91.17	-11,571.0	575.0	880.0	696.0	184.01	4.782
21,660.0	9,792.0	21,743.4	9,810.5	92.0	93.0	-91.16	-11,631.0	574.5	880.0	695.0	184.91	4.759
21,700.0	9,792.1	21,783.4	9,810.5	92.3	93.3	-91.16	-11,671.0	574.2	880.0	694.4	185.51	4.743
21,755.0	9,792.1	21,838.4	9,810.6	92.8	93.7	-91.16	-11,726.0	573.7	880.0	693.6	186.34	4.722
21,800.0	9,792.1	21,883.4	9,810.6	93.1	94.0	-91.16	-11,771.0	573.3	880.0	692.9	187.01	4.705
21,850.0	9,792.1	21,933.4	9,810.6	93.5	94.4	-91.16	-11,821.0	572.9	880.0	692.2	187.77	4.686
21,900.0	9,792.2	21,983.4	9,810.6	93.9	94.8	-91.16	-11,871.0	572.5	880.0	691.4	188.52	4.668
21,945.0	9,792.2	22,028.4	9,810.6	94.2	95.1	-91.16	-11,916.0	572.1	880.0	690.8	189.20	4.651
22,000.0	9,792.2	22,083.4	9,810.7	94.6	95.5	-91.16	-11,971.0	571.7	880.0	689.9	190.02	4.631
22,040.0	9,792.2	22,123.4	9,810.7	94.9	95.8	-91.16	-12,011.0	571.4	880.0	689.3	190.62	4.616
22,100.0	9,792.3	22,183.4	9,810.7	95.4	96.3	-91.16	-12,071.0	570.9	880.0	688.4	191.53	4.594

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-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	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	+N/-S	+E/-W	Between Centres	Between Ellipses	Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
22,135.0	9,792.3	22,218.4	9,810.7	95.6	96.5	-91.16	-12,106.0	570.6	880.0	687.9	192.05	4.582
22,200.0	9,792.3	22,283.4	9,810.7	96.1	97.0	-91.16	-12,171.0	570.0	880.0	686.9	193.03	4.559
22,230.0	9,792.3	22,313.4	9,810.7	96.3	97.3	-91.16	-12,201.0	569.8	880.0	686.5	193.48	4.548
22,300.0	9,792.4	22,383.4	9,810.8	96.9	97.8	-91.16	-12,271.0	569.2	880.0	685.4	194.54	4.523
22,325.0	9,792.4	22,408.4	9,810.8	97.1	98.0	-91.16	-12,296.0	569.0	880.0	685.1	194.91	4.515
22,400.0	9,792.4	22,483.4	9,810.8	97.6	98.5	-91.16	-12,371.0	568.4	880.0	683.9	196.04	4.489
22,420.0	9,792.4	22,503.4	9,810.8	97.8	98.7	-91.16	-12,391.0	568.2	880.0	683.6	196.35	4.482
22,500.0	9,792.5	22,583.4	9,810.8	98.4	99.3	-91.16	-12,471.0	567.6	880.0	682.4	197.55	4.454
22,515.0	9,792.5	22,598.4	9,810.9	98.5	99.4	-91.16	-12,486.0	567.4	880.0	682.2	197.78	4.449
22,600.0	9,792.5	22,683.4	9,810.9	99.1	100.0	-91.16	-12,571.0	566.7	880.0	680.9	199.06	4.421
22,610.0	9,792.5	22,693.4	9,810.9	99.2	100.1	-91.16	-12,581.0	566.6	880.0	680.8	199.21	4.417
22,700.0	9,792.6	22,783.4	9,810.9	99.9	100.8	-91.16	-12,671.0	565.9	880.0	679.4	200.56	4.387
22,705.0	9,792.6	22,788.4	9,810.9	99.9	100.8	-91.16	-12,676.0	565.9	880.0	679.3	200.64	4.386
22,800.0	9,792.6	22,883.4	9,811.0	100.7	101.5	-91.15	-12,771.0	565.1	880.0	677.9	202.07	4.355
22,895.0	9,792.7	22,978.4	9,811.0	101.4	102.2	-91.15	-12,866.0	564.3	880.0	676.5	203.50	4.324
22,900.0	9,792.7	22,983.4	9,811.0	101.4	102.3	-91.15	-12,871.0	564.2	880.0	676.4	203.58	4.323
22,990.0	9,792.7	23,073.4	9,811.0	102.1	103.0	-91.15	-12,961.0	563.5	880.0	675.0	204.94	4.294
23,000.0	9,792.7	23,083.4	9,811.0	102.2	103.0	-91.15	-12,971.0	563.4	880.0	674.9	205.09	4.291
23,085.0	9,792.8	23,168.4	9,811.1	102.8	103.7	-91.15	-13,056.0	562.7	880.0	673.6	206.37	4.264
23,100.0	9,792.8	23,183.4	9,811.1	102.9	103.8	-91.15	-13,071.0	562.6	880.0	673.4	206.59	4.259
23,180.0	9,792.8	23,263.4	9,811.1	103.5	104.4	-91.15	-13,151.0	561.9	880.0	672.2	207.80	4.235
23,200.0	9,792.8	23,283.4	9,811.1	103.7	104.5	-91.15	-13,171.0	561.8	880.0	671.9	208.10	4.229
23,275.0	9,792.9	23,358.4	9,811.2	104.2	105.1	-91.15	-13,246.0	561.1	880.0	670.7	209.23	4.206
23,300.0	9,792.9	23,383.4	9,811.2	104.4	105.3	-91.15	-13,271.0	560.9	880.0	670.4	209.61	4.198
23,370.0	9,792.9	23,453.4	9,811.2	105.0	105.8	-91.15	-13,340.9	560.4	880.0	669.3	210.67	4.177
23,400.0	9,792.9	23,483.4	9,811.2	105.2	106.0	-91.15	-13,370.9	560.1	880.0	668.9	211.12	4.168
23,465.0	9,793.0	23,548.4	9,811.2	105.7	106.5	-91.15	-13,435.9	559.6	880.0	667.9	212.10	4.149
23,500.0	9,793.0	23,583.4	9,811.2	105.9	106.8	-91.15	-13,470.9	559.3	880.0	667.3	212.63	4.139
23,560.0	9,793.0	23,643.4	9,811.3	106.4	107.2	-91.15	-13,530.9	558.8	880.0	666.4	213.54	4.121
23,600.0	9,793.0	23,683.4	9,811.3	106.7	107.5	-91.15	-13,570.9	558.5	880.0	665.8	214.14	4.109
23,655.0	9,793.1	23,738.4	9,811.3	107.1	108.0	-91.15	-13,625.9	558.0	880.0	665.0	214.97	4.093
23,700.0	9,793.1	23,783.4	9,811.3	107.5	108.3	-91.15	-13,670.9	557.6	880.0	664.3	215.65	4.081
23,750.0	9,793.1	23,833.4	9,811.3	107.8	108.7	-91.15	-13,720.9	557.2	880.0	663.6	216.40	4.066
23,800.0	9,793.2	23,883.4	9,811.4	108.2	109.0	-91.15	-13,770.9	556.8	880.0	662.8	217.16	4.052
23,845.0	9,793.2	23,928.4	9,811.4	108.6	109.4	-91.15	-13,815.9	556.4	880.0	662.1	217.84	4.040
23,900.0	9,793.2	23,983.4	9,811.4	109.0	109.8	-91.15	-13,870.9	556.0	880.0	661.3	218.67	4.024
23,940.0	9,793.2	24,023.4	9,811.4	109.3	110.1	-91.15	-13,910.9	555.7	880.0	660.7	219.27	4.013
24,000.0	9,793.3	24,083.4	9,811.4	109.7	110.5	-91.14	-13,970.9	555.2	880.0	659.8	220.18	3.997
24,035.0	9,793.3	24,118.4	9,811.5	110.0	110.8	-91.14	-14,005.9	554.9	880.0	659.3	220.71	3.987
24,100.0	9,793.3	24,183.4	9,811.5	110.5	111.3	-91.14	-14,070.9	554.3	880.0	658.3	221.69	3.969
24,130.0	9,793.3	24,213.4	9,811.5	110.7	111.5	-91.14	-14,100.9	554.1	880.0	657.8	222.14	3.961
24,200.0	9,793.4	24,283.4	9,811.5	111.2	112.1	-91.14	-14,170.9	553.5	880.0	656.8	223.20	3.943
24,225.0	9,793.4	24,308.4	9,811.5	111.4	112.2	-91.14	-14,195.9	553.3	880.0	656.4	223.58	3.936
24,300.0	9,793.4	24,383.4	9,811.6	112.0	112.8	-91.14	-14,270.9	552.7	880.0	655.3	224.71	3.916
24,320.0	9,793.4	24,403.4	9,811.6	112.2	113.0	-91.14	-14,290.9	552.5	880.0	655.0	225.02	3.911
24,400.0	9,793.5	24,483.4	9,811.6	112.8	113.6	-91.14	-14,370.9	551.9	880.0	653.8	226.23	3.890
24,415.0	9,793.5	24,498.4	9,811.6	112.9	113.7	-91.14	-14,385.9	551.7	880.0	653.5	226.45	3.886
24,500.0	9,793.5	24,583.4	9,811.6	113.5	114.3	-91.14	-14,470.9	551.0	880.0	652.3	227.74	3.864
24,510.0	9,793.5	24,593.4	9,811.6	113.6	114.4	-91.14	-14,480.9	550.9	880.0	652.1	227.89	3.861
24,600.0	9,793.6	24,683.4	9,811.7	114.3	115.1	-91.14	-14,570.9	550.2	880.0	650.7	229.25	3.839
24,605.0	9,793.6	24,688.4	9,811.7	114.3	115.1	-91.14	-14,575.9	550.2	880.0	650.7	229.32	3.837

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
24,700.0	9,793.6	24,783.4	9,811.7	115.0	115.8	-91.14	-14,670.9	549.4	880.0	649.2	230.76	3.813	
24,795.0	9,793.7	24,878.4	9,811.8	115.8	116.5	-91.14	-14,765.9	548.6	880.0	647.8	232.20	3.790	
24,800.0	9,793.7	24,883.4	9,811.8	115.8	116.6	-91.14	-14,770.9	548.5	880.0	647.7	232.27	3.789	
24,890.0	9,793.7	24,973.4	9,811.8	116.5	117.3	-91.14	-14,860.9	547.8	880.0	646.4	233.63	3.767	
24,900.0	9,793.7	24,983.4	9,811.8	116.6	117.3	-91.14	-14,870.9	547.7	880.0	646.2	233.79	3.764	
24,985.0	9,793.8	25,068.4	9,811.8	117.2	118.0	-91.14	-14,955.9	547.0	880.0	644.9	235.07	3.744	
25,000.0	9,793.8	25,083.4	9,811.8	117.3	118.1	-91.14	-14,970.9	546.9	880.0	644.7	235.30	3.740	
25,080.0	9,793.8	25,163.4	9,811.9	117.9	118.7	-91.14	-15,050.9	546.2	880.0	643.5	236.51	3.721	
25,100.0	9,793.8	25,183.4	9,811.9	118.1	118.8	-91.14	-15,070.9	546.1	880.0	643.2	236.81	3.716	
25,175.0	9,793.9	25,258.4	9,811.9	118.6	119.4	-91.13	-15,145.9	545.4	880.0	642.1	237.95	3.698	
25,200.0	9,793.9	25,283.4	9,811.9	118.8	119.6	-91.13	-15,170.9	545.2	880.0	641.7	238.32	3.692	
25,270.0	9,793.9	25,353.4	9,811.9	119.4	120.1	-91.13	-15,240.9	544.7	880.0	640.6	239.38	3.676	
25,278.2	9,793.9	25,361.6	9,811.9	119.4	120.2	-91.13	-15,249.1	544.6	880.0	640.5	239.51	3.674	
25,300.0	9,793.9	25,383.4	9,811.9	119.6	120.3	-91.13	-15,270.9	544.4	880.0	640.2	239.84	3.669	
25,365.0	9,794.0	25,448.4	9,812.0	120.1	120.8	-91.13	-15,335.9	543.9	880.0	639.2	240.82	3.654	
25,408.3	9,794.0	25,491.7	9,812.0	120.4	121.2	-91.13	-15,379.2	543.5	880.0	638.5	241.48	3.644	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-91.15	-0.6	-29.9	29.9				
95.0	95.0	95.0	95.0	3.0	3.0	-91.15	-0.6	-29.9	29.9	23.9	6.04	4.955	
100.0	100.0	100.0	100.0	3.0	3.0	-91.15	-0.6	-29.9	29.9	23.9	6.04	4.951	
190.0	190.0	190.0	190.0	3.1	3.1	-91.15	-0.6	-29.9	29.9	23.7	6.25	4.783	
200.0	200.0	200.0	200.0	3.1	3.1	-91.15	-0.6	-29.9	29.9	23.6	6.29	4.757	
285.0	285.0	285.0	285.0	3.3	3.3	-91.15	-0.6	-29.9	29.9	23.4	6.48	4.613	
300.0	300.0	300.0	300.0	3.3	3.3	-91.15	-0.6	-29.9	29.9	23.4	6.52	4.585	
380.0	380.0	380.0	380.0	3.4	3.4	-91.15	-0.6	-29.9	29.9	23.2	6.70	4.462	
400.0	400.0	400.0	400.0	3.4	3.4	-91.15	-0.6	-29.9	29.9	23.2	6.75	4.430	
475.0	475.0	475.0	475.0	3.5	3.5	-91.15	-0.6	-29.9	29.9	23.0	6.91	4.326	
500.0	500.0	500.0	500.0	3.5	3.5	-91.15	-0.6	-29.9	29.9	22.9	6.97	4.290	
570.0	570.0	570.0	570.0	3.6	3.6	-91.15	-0.6	-29.9	29.9	22.8	7.12	4.201	
600.0	600.0	600.0	600.0	3.6	3.6	-91.15	-0.6	-29.9	29.9	22.7	7.18	4.163	
665.0	665.0	665.0	665.0	3.7	3.7	-91.15	-0.6	-29.9	29.9	22.6	7.32	4.087	
700.0	700.0	700.0	700.0	3.8	3.8	-91.15	-0.6	-29.9	29.9	22.5	7.39	4.046	
760.0	760.0	760.0	760.0	3.8	3.8	-91.15	-0.6	-29.9	29.9	22.4	7.51	3.981	
800.0	800.0	800.0	800.0	3.9	3.9	-91.15	-0.6	-29.9	29.9	22.3	7.59	3.938	
855.0	855.0	855.0	855.0	4.0	4.0	-91.15	-0.6	-29.9	29.9	22.2	7.70	3.883	
900.0	900.0	900.0	900.0	4.0	4.0	-91.15	-0.6	-29.9	29.9	22.1	7.79	3.839	
950.0	950.0	950.0	950.0	4.1	4.1	-91.15	-0.6	-29.9	29.9	22.0	7.89	3.792	
1,000.0	1,000.0	1,000.0	1,000.0	4.1	4.1	-91.15	-0.6	-29.9	29.9	21.9	7.98	3.747	
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	-91.15	-0.6	-29.9	29.9	21.8	8.07	3.708	
1,100.0	1,100.0	1,100.0	1,100.0	4.2	4.2	-91.15	-0.6	-29.9	29.9	21.7	8.17	3.661	
1,140.0	1,140.0	1,140.0	1,140.0	4.3	4.3	-91.15	-0.6	-29.9	29.9	21.7	8.24	3.628	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-91.15	-0.6	-29.9	29.9	21.6	8.35	3.580	
1,235.0	1,235.0	1,235.0	1,235.0	4.4	4.4	-91.15	-0.6	-29.9	29.9	21.5	8.42	3.554	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-91.15	-0.6	-29.9	29.9	21.4	8.53	3.505	
1,330.0	1,330.0	1,330.0	1,330.0	4.5	4.5	-91.15	-0.6	-29.9	29.9	21.3	8.58	3.484	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-91.15	-0.6	-29.9	29.9	21.2	8.71	3.435	
1,425.0	1,425.0	1,425.0	1,425.0	4.6	4.6	-91.15	-0.6	-29.9	29.9	21.2	8.75	3.418	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-91.15	-0.6	-29.9	29.9	21.0	8.88	3.368 CC	
1,520.0	1,520.0	1,519.8	1,519.8	4.8	4.7	-66.76	-0.6	-30.0	29.9	21.0	8.93	3.351 ES, SF	
1,600.0	1,600.0	1,599.0	1,599.0	4.9	4.8	-68.35	0.1	-31.5	30.8	21.7	9.15	3.369	
1,615.0	1,615.0	1,613.9	1,613.9	4.9	4.9	-68.87	0.3	-32.0	31.1	21.9	9.21	3.379	
1,700.0	1,699.8	1,698.0	1,697.8	5.2	5.0	-72.77	2.0	-36.2	33.7	24.1	9.55	3.525	
1,710.0	1,709.8	1,707.9	1,707.7	5.2	5.1	-73.32	2.3	-36.9	34.1	24.5	9.59	3.553	
1,800.0	1,799.5	1,796.7	1,796.2	5.4	5.3	-78.60	5.3	-44.1	38.8	28.9	9.94	3.905	
1,805.0	1,804.4	1,801.7	1,801.1	5.5	5.3	-78.90	5.5	-44.6	39.1	29.2	9.95	3.929	
1,900.0	1,898.7	1,895.2	1,893.9	5.7	5.6	-84.47	9.8	-55.0	46.5	36.2	10.30	4.509	
1,995.0	1,992.5	1,988.4	1,986.0	6.0	5.9	-89.35	15.3	-68.3	56.2	45.6	10.65	5.280	
2,000.0	1,997.5	1,993.3	1,990.9	6.1	5.9	-89.58	15.6	-69.1	56.8	46.1	10.66	5.325	
2,050.0	2,046.6	2,042.1	2,038.9	6.2	6.0	-91.75	18.9	-77.2	63.0	52.2	10.81	5.827	
2,090.0	2,085.9	2,081.2	2,077.2	6.2	6.2	-93.18	21.9	-84.2	68.4	57.4	10.92	6.261	
2,100.0	2,095.7	2,091.0	2,086.8	6.3	6.2	-93.45	22.6	-86.0	69.8	58.8	10.95	6.373	
2,185.0	2,179.1	2,173.6	2,167.4	6.5	6.5	-94.62	29.5	-102.7	82.6	71.4	11.27	7.332	
2,200.0	2,193.9	2,188.1	2,181.6	6.5	6.6	-94.66	30.8	-105.9	85.1	73.7	11.33	7.509	
2,280.0	2,272.4	2,266.8	2,257.9	6.8	6.8	-94.59	38.1	-123.5	98.3	86.7	11.64	8.446	
2,300.0	2,292.0	2,286.6	2,277.0	6.8	6.9	-94.57	39.9	-127.9	101.6	89.9	11.72	8.672	
2,375.0	2,365.7	2,360.5	2,348.8	7.1	7.1	-94.51	46.8	-144.4	114.0	102.0	12.02	9.488	
2,400.0	2,390.2	2,385.2	2,372.7	7.2	7.2	-94.50	49.0	-149.9	118.2	106.0	12.12	9.751	
2,470.0	2,458.9	2,454.2	2,439.7	7.4	7.4	-94.46	55.4	-165.4	129.8	117.4	12.41	10.457	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
									(usft)	(usft)			
2,500.0	2,488.4	2,483.8	2,468.4	7.5	7.5	-94.44	58.2	-172.0	134.7	122.2	12.53	10.749	
2,565.0	2,552.2	2,547.9	2,530.6	7.7	7.8	-94.41	64.1	-186.3	145.5	132.7	12.81	11.358	
2,600.0	2,586.5	2,582.4	2,564.1	7.9	7.9	-94.40	67.3	-194.0	151.3	138.3	12.96	11.674	
2,660.0	2,645.4	2,641.6	2,621.5	8.1	8.1	-94.38	72.7	-207.2	161.2	148.0	13.22	12.195	
2,700.0	2,684.7	2,681.0	2,659.8	8.2	8.3	-94.36	76.4	-216.1	167.9	154.5	13.40	12.530	
2,755.0	2,738.7	2,735.3	2,712.4	8.4	8.5	-94.35	81.4	-228.2	177.0	163.3	13.64	12.974	
2,800.0	2,782.8	2,779.7	2,755.5	8.6	8.6	-94.33	85.5	-238.1	184.4	170.6	13.84	13.324	
2,850.0	2,831.9	2,829.0	2,803.3	8.8	8.8	-94.32	90.1	-249.1	192.7	178.6	14.07	13.698	
2,900.0	2,881.0	2,878.3	2,851.2	9.0	9.0	-94.31	94.6	-260.2	201.0	186.7	14.29	14.060	
2,945.0	2,925.2	2,922.6	2,894.2	9.1	9.2	-94.30	98.7	-270.1	208.4	193.9	14.50	14.374	
3,000.0	2,979.2	2,976.9	2,946.9	9.4	9.4	-94.29	103.7	-282.2	217.5	202.8	14.75	14.744	
3,040.0	3,018.4	3,016.3	2,985.1	9.5	9.6	-94.28	107.4	-291.0	224.2	209.2	14.94	15.004	
3,100.0	3,077.3	3,075.5	3,042.6	9.7	9.8	-94.27	112.9	-304.2	234.1	218.9	15.22	15.380	
3,135.0	3,111.7	3,110.0	3,076.1	9.9	10.0	-94.27	116.0	-312.0	239.9	224.5	15.39	15.592	
3,200.0	3,175.5	3,174.1	3,138.3	10.1	10.2	-94.26	122.0	-326.3	250.7	235.0	15.69	15.972	
3,230.0	3,205.0	3,203.7	3,167.0	10.3	10.4	-94.25	124.7	-332.9	255.6	239.8	15.84	16.142	
3,300.0	3,273.7	3,272.7	3,233.9	10.6	10.7	-94.24	131.1	-348.3	267.2	251.1	16.17	16.524	
3,325.0	3,298.2	3,297.4	3,257.9	10.7	10.8	-94.24	133.4	-353.8	271.4	255.1	16.29	16.656	
3,400.0	3,371.8	3,371.4	3,329.6	11.0	11.1	-94.23	140.2	-370.4	283.8	267.1	16.65	17.040	
3,420.0	3,391.5	3,391.1	3,348.8	11.0	11.2	-94.23	142.0	-374.8	287.1	270.3	16.75	17.139	
3,500.0	3,470.0	3,470.0	3,425.3	11.4	11.5	-94.22	149.3	-392.4	300.3	283.2	17.14	17.522	
3,515.0	3,484.7	3,484.8	3,439.7	11.4	11.6	-94.22	150.7	-395.7	302.8	285.6	17.21	17.591	
3,600.0	3,568.2	3,568.6	3,521.0	11.8	12.0	-94.21	158.4	-414.5	316.9	299.3	17.63	17.973	
3,610.0	3,578.0	3,578.5	3,530.6	11.8	12.0	-94.21	159.4	-416.7	318.6	300.9	17.68	18.017	
3,700.0	3,666.3	3,667.2	3,616.7	12.2	12.4	-94.20	167.6	-436.5	333.5	315.3	18.13	18.396	
3,705.0	3,671.2	3,672.2	3,621.5	12.2	12.4	-94.20	168.0	-437.6	334.3	316.1	18.15	18.417	
3,800.0	3,764.5	3,765.8	3,712.4	12.6	12.8	-94.20	176.7	-458.6	350.0	331.4	18.63	18.794	
3,895.0	3,857.7	3,859.5	3,803.3	13.1	13.2	-94.19	185.3	-479.5	365.8	346.7	19.10	19.149	
3,900.0	3,862.6	3,864.5	3,808.1	13.1	13.3	-94.19	185.8	-480.6	366.6	347.5	19.13	19.168	
3,990.0	3,951.0	3,953.2	3,894.2	13.5	13.7	-94.18	194.0	-500.4	381.5	361.9	19.58	19.485	
4,000.0	3,960.8	3,963.1	3,903.8	13.5	13.7	-94.18	194.9	-502.7	383.2	363.5	19.63	19.520	
4,085.0	4,044.2	4,046.9	3,985.1	13.9	14.1	-94.18	202.7	-521.4	397.2	377.2	20.06	19.805	
4,097.4	4,056.4	4,059.1	3,997.0	13.9	14.2	-94.18	203.8	-524.1	399.3	379.2	20.12	19.846	
4,100.0	4,059.0	4,061.7	3,999.5	13.9	14.2	-94.19	204.0	-524.7	399.7	379.6	20.13	19.856	
4,180.0	4,137.7	4,140.6	4,076.0	14.3	14.5	-94.28	211.3	-542.3	412.9	392.3	20.54	20.099	
4,200.0	4,157.5	4,160.3	4,095.2	14.4	14.6	-94.26	213.1	-546.7	416.2	395.5	20.65	20.154	
4,275.0	4,231.7	4,234.2	4,166.9	14.7	15.0	-94.01	220.0	-563.3	428.3	407.3	21.05	20.348	
4,300.0	4,256.5	4,258.9	4,190.8	14.8	15.1	-93.88	222.2	-568.8	432.4	411.2	21.19	20.406	
4,370.0	4,326.1	4,327.7	4,257.6	15.1	15.4	-93.37	228.6	-584.2	443.6	422.1	21.58	20.558	
4,400.0	4,356.0	4,357.2	4,286.2	15.3	15.5	-93.10	231.3	-590.7	448.5	426.7	21.75	20.616	
4,465.0	4,420.8	4,420.9	4,348.0	15.5	15.8	-92.40	237.2	-605.0	458.9	436.8	22.14	20.733	
4,500.0	4,455.7	4,455.2	4,381.3	15.6	16.0	-91.97	240.4	-612.7	464.6	442.2	22.35	20.787	
4,560.0	4,515.7	4,513.8	4,438.1	15.8	16.2	-91.15	245.8	-625.8	474.4	451.6	22.73	20.874	
4,600.0	4,555.6	4,552.8	4,475.9	16.0	16.4	-90.54	249.4	-634.5	481.0	458.0	22.99	20.923	
4,647.4	4,603.0	4,598.8	4,520.6	16.0	16.6	-114.22	253.7	-644.8	488.9	465.6	23.28	20.997	
4,655.0	4,610.6	4,606.2	4,527.8	16.0	16.7	-114.07	254.4	-646.4	490.2	466.8	23.33	21.008	
4,700.0	4,655.6	4,649.9	4,570.2	16.1	16.9	-113.17	258.4	-656.2	497.8	474.2	23.62	21.073	
4,750.0	4,705.6	4,698.4	4,617.2	16.1	17.1	-112.21	262.9	-667.0	506.5	482.5	23.97	21.127	
4,800.0	4,755.6	4,746.9	4,664.3	16.1	17.3	-111.28	267.4	-677.9	515.3	491.0	24.33	21.181	
4,845.0	4,800.6	4,790.6	4,706.7	16.1	17.5	-110.47	271.4	-687.6	523.3	498.7	24.65	21.230	
4,900.0	4,855.6	4,843.9	4,758.5	16.2	17.8	-109.50	276.3	-699.6	533.3	508.2	25.05	21.292	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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:												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
4,940.0	4,895.6	4,882.7	4,796.1	16.2	18.0	-108.83		279.9	-708.2	540.6	515.3	25.33	21.338
5,000.0	4,955.6	4,941.0	4,852.6	16.2	18.2	-107.84		285.3	-721.2	551.7	526.0	25.77	21.409
5,035.0	4,990.6	4,974.9	4,885.6	16.2	18.4	-107.29		288.4	-728.8	558.3	532.3	26.03	21.451
5,100.0	5,055.6	5,038.0	4,946.8	16.3	18.7	-106.29		294.3	-742.9	570.6	544.1	26.50	21.532
5,130.0	5,085.6	5,067.1	4,975.0	16.3	18.8	-105.84		297.0	-749.4	576.4	549.6	26.72	21.571
5,200.0	5,155.6	5,135.0	5,040.9	16.3	19.2	-104.84		303.2	-764.6	589.9	562.6	27.23	21.662
5,225.0	5,180.6	5,159.3	5,064.4	16.4	19.3	-104.49		305.5	-770.0	594.8	567.3	27.41	21.696
5,300.0	5,255.6	5,232.0	5,135.1	16.4	19.6	-103.47		312.2	-786.3	609.5	581.5	27.96	21.799
5,320.0	5,275.6	5,251.4	5,153.9	16.4	19.7	-103.21		314.0	-790.7	613.5	585.4	28.11	21.827
5,400.0	5,355.6	5,329.1	5,229.2	16.5	20.1	-102.19		321.2	-808.0	629.4	600.8	28.69	21.941
5,415.0	5,370.6	5,343.6	5,243.3	16.5	20.2	-102.01		322.5	-811.3	632.5	603.7	28.80	21.963
5,500.0	5,455.6	5,426.1	5,323.3	16.5	20.5	-100.99		330.2	-829.7	649.7	620.3	29.41	22.089
5,510.0	5,465.6	5,435.8	5,332.8	16.5	20.6	-100.87		331.1	-831.9	651.7	622.2	29.48	22.104
5,600.0	5,555.6	5,523.1	5,417.5	16.6	21.0	-99.86		339.1	-851.4	670.2	640.0	30.13	22.242
5,605.0	5,560.6	5,528.0	5,422.2	16.6	21.0	-99.80		339.6	-852.5	671.2	641.0	30.17	22.250
5,700.0	5,655.6	5,620.2	5,511.6	16.6	21.5	-98.79		348.1	-873.1	690.9	660.0	30.84	22.399
5,795.0	5,750.6	5,712.3	5,601.1	16.7	21.9	-97.84		356.6	-893.7	710.8	679.3	31.52	22.552
5,800.0	5,755.6	5,717.2	5,605.8	16.7	21.9	-97.79		357.1	-894.8	711.8	680.3	31.55	22.560
5,890.0	5,845.6	5,804.5	5,690.5	16.7	22.3	-96.94		365.1	-914.3	730.9	698.7	32.19	22.708
5,900.0	5,855.6	5,814.2	5,699.9	16.8	22.4	-96.85		366.0	-916.5	733.0	700.7	32.26	22.724
5,985.0	5,940.6	5,896.7	5,780.0	16.8	22.8	-96.08		373.7	-934.9	751.1	718.3	32.85	22.866
6,000.0	5,955.6	5,911.3	5,794.1	16.8	22.9	-95.95		375.0	-938.1	754.3	721.4	32.95	22.891
6,080.0	6,035.6	5,988.9	5,869.4	16.9	23.2	-95.27		382.2	-955.5	771.5	738.0	33.51	23.025
6,100.0	6,055.6	6,008.3	5,888.2	16.9	23.3	-95.11		384.0	-959.8	775.8	742.2	33.64	23.059
6,175.0	6,130.6	6,081.1	5,958.9	16.9	23.7	-94.50		390.7	-976.1	792.0	757.9	34.16	23.186
6,200.0	6,155.6	6,105.3	5,982.4	16.9	23.8	-94.31		392.9	-981.5	797.5	763.1	34.33	23.229
6,270.0	6,225.6	6,173.2	6,048.3	17.0	24.1	-93.77		399.2	-996.7	812.7	777.9	34.81	23.348
6,300.0	6,255.6	6,202.3	6,076.5	17.0	24.3	-93.55		401.9	-1,003.2	819.3	784.3	35.01	23.399
6,365.0	6,320.6	6,282.3	6,154.3	17.0	24.6	-92.97		409.0	-1,020.4	833.0	797.5	35.53	23.447
6,400.0	6,355.6	6,328.8	6,199.8	17.0	24.9	-92.68		412.8	-1,029.6	839.8	804.0	35.81	23.450
6,460.0	6,415.6	6,409.3	6,278.8	17.1	25.2	-92.24		418.7	-1,043.7	850.2	813.9	36.27	23.439
6,500.0	6,455.6	6,463.5	6,332.2	17.1	25.5	-91.98		422.1	-1,052.1	856.3	819.7	36.55	23.425
6,555.0	6,510.6	6,538.4	6,406.3	17.1	25.8	-91.68		426.3	-1,062.2	863.6	826.7	36.91	23.396
6,600.0	6,555.6	6,600.2	6,467.6	17.2	26.1	-91.47		429.2	-1,069.1	868.6	831.4	37.18	23.363
6,650.0	6,605.6	6,669.1	6,536.2	17.2	26.4	-91.29		431.8	-1,075.4	873.1	835.7	37.43	23.325
6,700.0	6,655.6	6,738.3	6,605.2	17.2	26.6	-91.16		433.7	-1,080.2	876.5	838.9	37.65	23.280
6,745.0	6,700.6	6,800.8	6,667.6	17.3	26.9	-91.07		435.0	-1,083.2	878.7	840.8	37.82	23.233
6,800.0	6,755.6	6,877.4	6,744.1	17.3	27.1	-91.02		435.8	-1,085.1	880.0	842.1	37.95	23.192
6,840.0	6,795.6	6,928.9	6,795.6	17.3	27.2	-91.01		435.9	-1,085.4	880.2	842.3	37.98	23.174
6,900.0	6,855.6	6,988.9	6,855.6	17.4	27.2	-91.01		435.9	-1,085.4	880.2	842.2	38.05	23.134
6,935.0	6,890.6	7,023.9	6,890.6	17.4	27.2	-91.01		435.9	-1,085.4	880.2	842.1	38.09	23.110
7,000.0	6,955.6	7,088.9	6,955.6	17.4	27.2	-91.01		435.9	-1,085.4	880.2	842.1	38.16	23.065
7,030.0	6,985.6	7,118.9	6,985.6	17.4	27.2	-91.01		435.9	-1,085.4	880.2	842.0	38.20	23.044
7,100.0	7,055.6	7,188.9	7,055.6	17.5	27.3	-91.01		435.9	-1,085.4	880.2	842.0	38.28	22.995
7,125.0	7,080.6	7,213.9	7,080.6	17.5	27.3	-91.01		435.9	-1,085.4	880.2	841.9	38.31	22.978
7,200.0	7,155.6	7,288.9	7,155.6	17.5	27.3	-91.01		435.9	-1,085.4	880.2	841.8	38.40	22.926
7,220.0	7,175.6	7,308.9	7,175.6	17.6	27.3	-91.01		435.9	-1,085.4	880.2	841.8	38.42	22.912
7,300.0	7,255.6	7,388.9	7,255.6	17.6	27.3	-91.01		435.9	-1,085.4	880.2	841.7	38.51	22.857
7,315.0	7,270.6	7,403.9	7,270.6	17.6	27.3	-91.01		435.9	-1,085.4	880.2	841.7	38.53	22.846
7,400.0	7,355.6	7,488.9	7,355.6	17.7	27.4	-91.01		435.9	-1,085.4	880.2	841.6	38.63	22.788
7,410.0	7,365.6	7,498.9	7,365.6	17.7	27.4	-91.01		435.9	-1,085.4	880.2	841.6	38.64	22.781

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.0	7,455.6	7,588.9	7,455.6	17.7	27.4	-91.01	435.9	-1,085.4	880.2	841.5	38.74	22.719	
7,505.0	7,460.6	7,593.9	7,460.6	17.7	27.4	-91.01	435.9	-1,085.4	880.2	841.5	38.75	22.716	
7,600.0	7,555.6	7,688.9	7,555.6	17.8	27.4	-91.01	435.9	-1,085.4	880.2	841.4	38.86	22.651	
7,695.0	7,650.6	7,783.9	7,650.6	17.8	27.5	-91.01	435.9	-1,085.4	880.2	841.3	38.97	22.587	
7,700.0	7,655.6	7,788.9	7,655.6	17.8	27.5	-91.01	435.9	-1,085.4	880.2	841.3	38.98	22.583	
7,790.0	7,745.6	7,878.9	7,745.6	17.9	27.5	-91.01	435.9	-1,085.4	880.2	841.2	39.08	22.522	
7,800.0	7,755.6	7,888.9	7,755.6	17.9	27.5	-91.01	435.9	-1,085.4	880.2	841.1	39.09	22.516	
7,885.0	7,840.6	7,973.9	7,840.6	18.0	27.5	-91.01	435.9	-1,085.4	880.2	841.0	39.19	22.458	
7,900.0	7,855.6	7,988.9	7,855.6	18.0	27.5	-91.01	435.9	-1,085.4	880.2	841.0	39.21	22.448	
7,980.0	7,935.6	8,068.9	7,935.6	18.0	27.5	-91.01	435.9	-1,085.4	880.2	840.9	39.31	22.395	
8,000.0	7,955.6	8,088.9	7,955.6	18.0	27.6	-91.01	435.9	-1,085.4	880.2	840.9	39.33	22.381	
8,075.0	8,030.6	8,163.9	8,030.6	18.1	27.6	-91.01	435.9	-1,085.4	880.2	840.8	39.42	22.331	
8,100.0	8,055.6	8,188.9	8,055.6	18.1	27.6	-91.01	435.9	-1,085.4	880.2	840.8	39.45	22.315	
8,170.0	8,125.6	8,258.9	8,125.6	18.1	27.6	-91.01	435.9	-1,085.4	880.2	840.7	39.53	22.268	
8,200.0	8,155.6	8,288.9	8,155.6	18.2	27.6	-91.01	435.9	-1,085.4	880.2	840.7	39.56	22.248	
8,265.0	8,220.6	8,353.9	8,220.6	18.2	27.6	-91.01	435.9	-1,085.4	880.2	840.6	39.64	22.205	
8,300.0	8,255.6	8,388.9	8,255.6	18.2	27.7	-91.01	435.9	-1,085.4	880.2	840.6	39.68	22.182	
8,360.0	8,315.6	8,448.9	8,315.6	18.3	27.7	-91.01	435.9	-1,085.4	880.2	840.5	39.75	22.142	
8,400.0	8,355.6	8,488.9	8,355.6	18.3	27.7	-91.01	435.9	-1,085.4	880.2	840.4	39.80	22.116	
8,455.0	8,410.6	8,543.9	8,410.6	18.3	27.7	-91.01	435.9	-1,085.4	880.2	840.4	39.87	22.080	
8,500.0	8,455.6	8,588.9	8,455.6	18.4	27.7	-91.01	435.9	-1,085.4	880.2	840.3	39.92	22.050	
8,550.0	8,505.6	8,638.9	8,505.6	18.4	27.7	-91.01	435.9	-1,085.4	880.2	840.3	39.98	22.018	
8,600.0	8,555.6	8,688.9	8,555.6	18.4	27.8	-91.01	435.9	-1,085.4	880.2	840.2	40.04	21.985	
8,645.0	8,600.6	8,733.9	8,600.6	18.4	27.8	-91.01	435.9	-1,085.4	880.2	840.1	40.09	21.956	
8,700.0	8,655.6	8,788.9	8,655.6	18.5	27.8	-91.01	435.9	-1,085.4	880.2	840.1	40.16	21.920	
8,740.0	8,695.6	8,828.9	8,695.6	18.5	27.8	-91.01	435.9	-1,085.4	880.2	840.0	40.20	21.894	
8,800.0	8,755.6	8,888.9	8,755.6	18.5	27.8	-91.01	435.9	-1,085.4	880.2	840.0	40.28	21.855	
8,835.0	8,790.6	8,923.9	8,790.6	18.6	27.8	-91.01	435.9	-1,085.4	880.2	839.9	40.32	21.832	
8,900.0	8,855.6	8,988.9	8,855.6	18.6	27.9	-91.01	435.9	-1,085.4	880.2	839.8	40.40	21.790	
8,930.0	8,885.6	9,018.9	8,885.6	18.6	27.9	-91.01	435.9	-1,085.4	880.2	839.8	40.43	21.771	
9,000.0	8,955.6	9,088.9	8,955.6	18.7	27.9	-91.01	435.9	-1,085.4	880.2	839.7	40.51	21.726	
9,025.0	8,980.6	9,113.9	8,980.6	18.7	27.9	-91.01	435.9	-1,085.4	880.2	839.7	40.54	21.710	
9,100.0	9,055.6	9,188.9	9,055.6	18.7	27.9	-91.01	435.9	-1,085.4	880.2	839.6	40.63	21.662	
9,120.0	9,075.6	9,208.9	9,075.6	18.8	27.9	-91.01	435.9	-1,085.4	880.2	839.6	40.66	21.649	
9,200.0	9,155.6	9,288.9	9,155.6	18.8	28.0	-91.01	435.9	-1,085.4	880.2	839.5	40.75	21.599	
9,215.0	9,170.6	9,303.9	9,170.6	18.8	28.0	-91.01	435.9	-1,085.4	880.2	839.5	40.77	21.592	
9,218.1	9,173.7	9,307.0	9,173.7	18.8	28.0	-91.01	435.9	-1,085.4	880.2	839.5	40.77	21.590	
9,257.4	9,213.0	9,345.5	9,213.0	18.8	28.0	-91.03	435.6	-1,085.4	880.2	839.4	40.80	21.576	
9,300.0	9,255.6	9,386.4	9,253.0	18.9	28.0	88.41	432.7	-1,085.4	880.3	839.5	40.81	21.571	
9,310.0	9,265.6	9,396.0	9,262.6	18.9	28.0	88.39	431.7	-1,085.4	880.3	839.5	40.81	21.571	
9,350.0	9,305.2	9,434.2	9,300.4	18.9	28.0	88.31	425.8	-1,085.5	880.3	839.5	40.81	21.569	
9,400.0	9,354.2	9,482.0	9,346.9	19.0	28.0	88.23	414.9	-1,085.6	880.4	839.5	40.82	21.566	
9,405.0	9,359.0	9,486.8	9,351.5	19.0	28.0	88.22	413.6	-1,085.6	880.4	839.5	40.82	21.566	
9,450.0	9,402.0	9,529.7	9,392.2	19.1	28.0	88.16	400.2	-1,085.7	880.4	839.6	40.83	21.563	
9,500.0	9,448.5	9,577.3	9,436.1	19.1	28.0	88.11	381.8	-1,085.8	880.4	839.6	40.84	21.559	
9,550.0	9,493.1	9,624.9	9,478.3	19.2	28.1	88.07	359.8	-1,086.0	880.4	839.6	40.85	21.553	
9,595.0	9,531.4	9,667.6	9,514.6	19.2	28.1	88.04	337.2	-1,086.2	880.5	839.6	40.86	21.546	
9,600.0	9,535.6	9,672.4	9,518.5	19.3	28.1	88.04	334.5	-1,086.2	880.5	839.6	40.87	21.545	
9,650.0	9,575.6	9,719.9	9,556.4	19.3	28.1	88.03	305.9	-1,086.5	880.5	839.6	40.89	21.535	
9,690.0	9,605.7	9,757.9	9,585.0	19.4	28.1	88.03	280.9	-1,086.7	880.5	839.6	40.91	21.524	
9,700.0	9,612.9	9,767.4	9,591.8	19.4	28.1	88.03	274.3	-1,086.7	880.5	839.5	40.91	21.521	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
9,750.0	9,647.2	9,814.9	9,624.5	19.4	28.1	88.04	239.9	-1,087.0	880.5	839.5	40.95	21.503		
9,785.0	9,669.2	9,848.1	9,645.7	19.5	28.2	88.06	214.2	-1,087.2	880.4	839.5	40.97	21.488		
9,800.0	9,678.1	9,862.4	9,654.3	19.5	28.2	88.07	202.8	-1,087.3	880.4	839.4	40.99	21.481		
9,850.0	9,705.5	9,910.0	9,680.9	19.6	28.2	88.12	163.4	-1,087.7	880.4	839.4	41.04	21.453		
9,880.0	9,720.2	9,938.5	9,695.3	19.6	28.2	88.15	138.7	-1,087.9	880.4	839.3	41.08	21.434		
9,900.0	9,729.1	9,957.6	9,704.1	19.6	28.2	88.18	121.9	-1,088.0	880.4	839.3	41.10	21.421		
9,950.0	9,748.9	10,005.3	9,723.9	19.6	28.3	88.25	78.5	-1,088.4	880.4	839.2	41.17	21.382		
9,975.0	9,757.2	10,029.2	9,732.4	19.7	28.3	88.29	56.2	-1,088.5	880.3	839.1	41.21	21.360		
10,000.0	9,764.5	10,053.1	9,740.0	19.7	28.3	88.33	33.5	-1,088.7	880.3	839.1	41.25	21.339		
10,050.0	9,776.0	10,100.0	9,752.1	19.7	28.3	88.42	-11.8	-1,089.1	880.3	838.9	41.36	21.283		
10,070.0	9,779.3	10,120.2	9,756.2	19.7	28.4	88.47	-31.5	-1,089.3	880.3	838.9	41.39	21.268		
10,072.1	9,779.7	10,122.2	9,756.6	19.7	28.4	88.47	-33.5	-1,089.3	880.3	838.9	41.39	21.265		
10,100.0	9,783.1	10,149.0	9,760.8	19.7	28.4	88.53	-60.0	-1,089.5	880.2	838.8	41.45	21.236		
10,150.0	9,786.0	10,197.1	9,765.3	19.8	28.4	88.65	-107.9	-1,089.9	880.2	838.6	41.56	21.177		
10,157.1	9,786.0	10,204.0	9,765.6	19.8	28.4	88.67	-114.8	-1,090.0	880.2	838.6	41.58	21.169		
10,165.0	9,786.0	10,211.6	9,765.8	19.8	28.4	88.69	-122.4	-1,090.0	880.2	838.6	41.60	21.159		
10,200.0	9,786.0	10,246.1	9,766.0	19.8	28.5	88.70	-156.9	-1,090.3	880.2	838.5	41.68	21.115		
10,200.2	9,786.0	10,246.3	9,766.0	19.8	28.5	88.70	-157.0	-1,090.3	880.2	838.5	41.68	21.115		
10,260.0	9,786.1	10,306.1	9,766.1	19.8	28.6	88.70	-216.9	-1,090.8	880.2	838.3	41.85	21.029		
10,300.0	9,786.1	10,346.1	9,766.1	19.8	28.6	88.70	-256.9	-1,091.1	880.2	838.2	41.98	20.968		
10,355.0	9,786.1	10,401.1	9,766.1	19.9	28.7	88.70	-311.9	-1,091.6	880.2	838.0	42.16	20.875		
10,400.0	9,786.1	10,446.1	9,766.2	19.9	28.7	88.70	-356.9	-1,092.0	880.2	837.8	42.33	20.795		
10,450.0	9,786.2	10,496.1	9,766.2	19.9	28.8	88.70	-406.9	-1,092.4	880.2	837.6	42.52	20.698		
10,500.0	9,786.2	10,546.1	9,766.2	19.9	28.9	88.70	-456.9	-1,092.8	880.2	837.4	42.73	20.598		
10,545.0	9,786.2	10,591.1	9,766.3	20.0	29.0	88.70	-501.9	-1,093.2	880.2	837.2	42.93	20.501		
10,600.0	9,786.2	10,646.1	9,766.3	20.0	29.1	88.70	-556.9	-1,093.6	880.2	837.0	43.19	20.379		
10,640.0	9,786.3	10,686.1	9,766.3	20.0	29.1	88.70	-596.9	-1,093.9	880.2	836.8	43.39	20.285		
10,700.0	9,786.3	10,746.1	9,766.4	20.1	29.3	88.70	-656.9	-1,094.4	880.2	836.5	43.70	20.141		
10,735.0	9,786.3	10,781.1	9,766.4	20.1	29.3	88.70	-691.9	-1,094.7	880.2	836.3	43.89	20.053		
10,800.0	9,786.3	10,846.1	9,766.4	20.2	29.5	88.71	-756.9	-1,095.3	880.2	835.9	44.26	19.887		
10,830.0	9,786.4	10,876.1	9,766.5	20.2	29.5	88.71	-786.9	-1,095.5	880.2	835.7	44.44	19.807		
10,900.0	9,786.4	10,946.1	9,766.5	20.3	29.7	88.71	-856.9	-1,096.1	880.2	835.3	44.86	19.619		
10,925.0	9,786.4	10,971.1	9,766.5	20.3	29.7	88.71	-881.9	-1,096.3	880.2	835.1	45.02	19.549		
11,000.0	9,786.4	11,046.1	9,766.6	20.4	29.9	88.71	-956.8	-1,096.9	880.2	834.6	45.51	19.339		
11,020.0	9,786.5	11,066.1	9,766.6	20.4	30.0	88.71	-976.8	-1,097.1	880.2	834.5	45.65	19.281		
11,100.0	9,786.5	11,146.1	9,766.7	20.5	30.2	88.71	-1,056.8	-1,097.7	880.2	833.9	46.20	19.049		
11,115.0	9,786.5	11,161.1	9,766.7	20.6	30.2	88.71	-1,071.8	-1,097.9	880.2	833.8	46.31	19.005		
11,200.0	9,786.5	11,246.1	9,766.7	20.7	30.4	88.71	-1,156.8	-1,098.6	880.2	833.2	46.94	18.752		
11,210.0	9,786.6	11,256.1	9,766.7	20.7	30.5	88.71	-1,166.8	-1,098.7	880.2	833.1	47.01	18.722		
11,300.0	9,786.6	11,346.1	9,766.8	20.9	30.7	88.71	-1,256.8	-1,099.4	880.2	832.4	47.71	18.450		
11,305.0	9,786.6	11,351.1	9,766.8	20.9	30.7	88.71	-1,261.8	-1,099.4	880.2	832.4	47.75	18.434		
11,400.0	9,786.7	11,446.1	9,766.9	21.1	31.0	88.71	-1,356.8	-1,100.2	880.2	831.6	48.51	18.144		
11,495.0	9,786.7	11,541.1	9,767.0	21.4	31.3	88.71	-1,451.8	-1,101.0	880.1	830.8	49.31	17.850		
11,500.0	9,786.7	11,546.1	9,767.0	21.4	31.3	88.71	-1,456.8	-1,101.1	880.1	830.8	49.35	17.835		
11,590.0	9,786.8	11,636.1	9,767.0	21.6	31.6	88.72	-1,546.8	-1,101.8	880.1	830.0	50.13	17.557		
11,600.0	9,786.8	11,646.1	9,767.0	21.7	31.6	88.72	-1,556.8	-1,101.9	880.1	829.9	50.22	17.526		
11,685.0	9,786.8	11,731.1	9,767.1	21.9	31.9	88.72	-1,641.8	-1,102.6	880.1	829.2	50.98	17.263		
11,700.0	9,786.8	11,746.1	9,767.1	22.0	32.0	88.72	-1,656.8	-1,102.7	880.1	829.0	51.12	17.217		
11,780.0	9,786.9	11,826.1	9,767.2	22.3	32.2	88.72	-1,736.8	-1,103.4	880.1	828.3	51.86	16.971		
11,800.0	9,786.9	11,846.1	9,767.2	22.4	32.3	88.72	-1,756.8	-1,103.5	880.1	828.1	52.05	16.909		
11,875.0	9,786.9	11,921.1	9,767.2	22.7	32.6	88.72	-1,831.8	-1,104.2	880.1	827.4	52.77	16.680		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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: 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	
11,900.0	9,786.9	11,946.1	9,767.2	22.8	32.7	88.72	-1,856.8	-1,104.4	880.1	827.1	53.01	16.604		
11,970.0	9,787.0	12,016.1	9,767.3	23.1	32.9	88.72	-1,926.8	-1,104.9	880.1	826.5	53.69	16.392		
12,000.0	9,787.0	12,046.1	9,767.3	23.2	33.0	88.72	-1,956.8	-1,105.2	880.1	826.2	53.99	16.302		
12,065.0	9,787.0	12,111.1	9,767.4	23.5	33.3	88.72	-2,021.8	-1,105.7	880.1	825.5	54.64	16.108		
12,100.0	9,787.0	12,146.1	9,767.4	23.7	33.4	88.72	-2,056.8	-1,106.0	880.1	825.1	55.00	16.004		
12,160.0	9,787.0	12,206.1	9,767.4	24.0	33.7	88.72	-2,116.8	-1,106.5	880.1	824.5	55.61	15.827		
12,200.0	9,787.1	12,246.1	9,767.5	24.2	33.8	88.72	-2,156.8	-1,106.8	880.1	824.1	56.02	15.710		
12,255.0	9,787.1	12,301.1	9,767.5	24.5	34.0	88.72	-2,211.8	-1,107.3	880.1	823.5	56.60	15.551		
12,300.0	9,787.1	12,346.1	9,767.5	24.7	34.2	88.72	-2,256.8	-1,107.7	880.1	823.1	57.07	15.421		
12,350.0	9,787.1	12,396.1	9,767.6	25.0	34.4	88.73	-2,306.8	-1,108.1	880.1	822.5	57.61	15.279		
12,400.0	9,787.2	12,446.1	9,767.6	25.3	34.6	88.73	-2,356.8	-1,108.5	880.1	822.0	58.14	15.137		
12,445.0	9,787.2	12,491.1	9,767.6	25.6	34.8	88.73	-2,401.8	-1,108.9	880.1	821.5	58.63	15.011		
12,500.0	9,787.2	12,546.1	9,767.7	25.9	35.1	88.73	-2,456.8	-1,109.3	880.1	820.9	59.23	14.859		
12,540.0	9,787.2	12,586.1	9,767.7	26.1	35.3	88.73	-2,496.8	-1,109.7	880.1	820.5	59.67	14.749		
12,600.0	9,787.3	12,646.1	9,767.8	26.5	35.5	88.73	-2,556.8	-1,110.1	880.1	819.8	60.34	14.586		
12,635.0	9,787.3	12,681.1	9,767.8	26.7	35.7	88.73	-2,591.8	-1,110.4	880.1	819.4	60.73	14.492		
12,700.0	9,787.3	12,746.1	9,767.8	27.0	36.0	88.73	-2,656.8	-1,111.0	880.1	818.7	61.47	14.319		
12,730.0	9,787.3	12,776.1	9,767.8	27.2	36.1	88.73	-2,686.8	-1,111.2	880.1	818.3	61.81	14.240		
12,800.0	9,787.4	12,846.1	9,767.9	27.7	36.4	88.73	-2,756.8	-1,111.8	880.1	817.5	62.61	14.058		
12,825.0	9,787.4	12,871.1	9,767.9	27.8	36.6	88.73	-2,781.8	-1,112.0	880.1	817.2	62.90	13.994		
12,900.0	9,787.4	12,946.1	9,768.0	28.3	36.9	88.73	-2,856.8	-1,112.6	880.1	816.4	63.76	13.803		
12,920.0	9,787.4	12,966.1	9,768.0	28.4	37.0	88.73	-2,876.8	-1,112.8	880.1	816.1	64.00	13.753		
13,000.0	9,787.5	13,046.1	9,768.0	28.9	37.4	88.73	-2,956.8	-1,113.5	880.1	815.2	64.93	13.554		
13,015.0	9,787.5	13,061.1	9,768.1	29.0	37.5	88.73	-2,971.8	-1,113.6	880.1	815.0	65.11	13.517		
13,100.0	9,787.5	13,146.1	9,768.1	29.5	37.9	88.73	-3,056.8	-1,114.3	880.1	814.0	66.12	13.311		
13,110.0	9,787.5	13,156.1	9,768.1	29.6	37.9	88.74	-3,066.8	-1,114.4	880.1	813.9	66.24	13.287		
13,200.0	9,787.6	13,246.1	9,768.2	30.2	38.4	88.74	-3,156.8	-1,115.1	880.1	812.8	67.32	13.074		
13,205.0	9,787.6	13,251.1	9,768.2	30.2	38.4	88.74	-3,161.8	-1,115.2	880.1	812.8	67.38	13.062		
13,300.0	9,787.6	13,346.1	9,768.3	30.8	38.9	88.74	-3,256.8	-1,115.9	880.1	811.6	68.53	12.843		
13,395.0	9,787.7	13,441.1	9,768.3	31.5	39.4	88.74	-3,351.8	-1,116.7	880.1	810.4	69.69	12.629		
13,400.0	9,787.7	13,446.1	9,768.3	31.5	39.4	88.74	-3,356.8	-1,116.8	880.1	810.4	69.75	12.618		
13,490.0	9,787.7	13,536.1	9,768.4	32.1	39.9	88.74	-3,446.8	-1,117.5	880.1	809.3	70.86	12.420		
13,500.0	9,787.8	13,546.1	9,768.4	32.2	39.9	88.74	-3,456.8	-1,117.6	880.1	809.1	70.99	12.399		
13,585.0	9,787.8	13,631.1	9,768.5	32.7	40.4	88.74	-3,541.8	-1,118.3	880.1	808.1	72.04	12.217		
13,600.0	9,787.8	13,646.1	9,768.5	32.8	40.5	88.74	-3,556.8	-1,118.4	880.1	807.9	72.23	12.185		
13,680.0	9,787.8	13,726.1	9,768.5	33.4	40.9	88.74	-3,636.8	-1,119.1	880.1	806.9	73.23	12.018		
13,700.0	9,787.9	13,746.1	9,768.5	33.5	41.0	88.74	-3,656.8	-1,119.2	880.1	806.6	73.48	11.977		
13,775.0	9,787.9	13,821.1	9,768.6	34.0	41.4	88.74	-3,731.8	-1,119.9	880.1	805.7	74.43	11.824		
13,800.0	9,787.9	13,846.1	9,768.6	34.2	41.6	88.74	-3,756.8	-1,120.1	880.1	805.4	74.75	11.774		
13,870.0	9,787.9	13,916.1	9,768.7	34.7	42.0	88.74	-3,826.8	-1,120.7	880.1	804.5	75.64	11.636		
13,900.0	9,788.0	13,946.1	9,768.7	34.9	42.1	88.75	-3,856.7	-1,120.9	880.1	804.1	76.02	11.577		
13,965.0	9,788.0	14,011.1	9,768.7	35.3	42.5	88.75	-3,921.7	-1,121.4	880.1	803.3	76.86	11.452		
14,000.0	9,788.0	14,046.1	9,768.8	35.6	42.7	88.75	-3,956.7	-1,121.7	880.1	802.8	77.31	11.385		
14,060.0	9,788.0	14,106.1	9,768.8	36.0	43.0	88.75	-4,016.7	-1,122.2	880.1	802.0	78.08	11.272		
14,100.0	9,788.1	14,146.1	9,768.8	36.3	43.3	88.75	-4,056.7	-1,122.6	880.1	801.5	78.60	11.198		
14,155.0	9,788.1	14,201.1	9,768.9	36.6	43.6	88.75	-4,111.7	-1,123.0	880.1	800.8	79.31	11.097		
14,200.0	9,788.1	14,246.1	9,768.9	37.0	43.8	88.75	-4,156.7	-1,123.4	880.1	800.2	79.90	11.016		
14,250.0	9,788.1	14,296.1	9,768.9	37.3	44.1	88.75	-4,206.7	-1,123.8	880.1	799.6	80.55	10.927		
14,300.0	9,788.2	14,346.1	9,769.0	37.7	44.4	88.75	-4,256.7	-1,124.2	880.1	798.9	81.20	10.839		
14,345.0	9,788.2	14,391.1	9,769.0	38.0	44.7	88.75	-4,301.7	-1,124.6	880.1	798.3	81.79	10.760		
14,400.0	9,788.2	14,446.1	9,769.1	38.4	45.0	88.75	-4,356.7	-1,125.0	880.1	797.6	82.52	10.666		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	
14,440.0	9,788.2	14,486.1	9,769.1	38.6	45.2	88.75	-4,396.7	-1,125.4	880.1	797.1	83.04	10.598
14,500.0	9,788.3	14,546.1	9,769.1	39.1	45.6	88.75	-4,456.7	-1,125.9	880.1	796.3	83.84	10.498
14,535.0	9,788.3	14,581.1	9,769.2	39.3	45.8	88.75	-4,491.7	-1,126.2	880.1	795.8	84.30	10.440
14,600.0	9,788.3	14,646.1	9,769.2	39.8	46.2	88.75	-4,556.7	-1,126.7	880.1	794.9	85.16	10.334
14,630.0	9,788.3	14,676.1	9,769.2	40.0	46.4	88.75	-4,586.7	-1,126.9	880.1	794.5	85.56	10.286
14,700.0	9,788.4	14,746.1	9,769.3	40.5	46.8	88.76	-4,656.7	-1,127.5	880.1	793.6	86.50	10.175
14,725.0	9,788.4	14,771.1	9,769.3	40.6	47.0	88.76	-4,681.7	-1,127.7	880.1	793.3	86.83	10.136
14,800.0	9,788.4	14,846.1	9,769.3	41.2	47.4	88.76	-4,756.7	-1,128.3	880.1	792.3	87.84	10.020
14,820.0	9,788.4	14,866.1	9,769.4	41.3	47.5	88.76	-4,776.7	-1,128.5	880.1	792.0	88.11	9.989
14,900.0	9,788.5	14,946.1	9,769.4	41.9	48.0	88.76	-4,856.7	-1,129.2	880.1	790.9	89.18	9.868
14,915.0	9,788.5	14,961.1	9,769.4	42.0	48.1	88.76	-4,871.7	-1,129.3	880.1	790.7	89.39	9.846
15,000.0	9,788.5	15,046.1	9,769.5	42.6	48.6	88.76	-4,956.7	-1,130.0	880.1	789.6	90.54	9.721
15,010.0	9,788.5	15,056.1	9,769.5	42.7	48.7	88.76	-4,966.7	-1,130.1	880.1	789.4	90.67	9.707
15,100.0	9,788.6	15,146.1	9,769.6	43.3	49.3	88.76	-5,056.7	-1,130.8	880.1	788.2	91.89	9.578
15,105.0	9,788.6	15,151.1	9,769.6	43.4	49.3	88.76	-5,061.7	-1,130.9	880.1	788.1	91.96	9.571
15,200.0	9,788.6	15,246.1	9,769.6	44.0	49.9	88.76	-5,156.7	-1,131.7	880.1	786.9	93.25	9.438
15,295.0	9,788.7	15,341.1	9,769.7	44.7	50.5	88.76	-5,251.7	-1,132.4	880.1	785.6	94.55	9.308
15,300.0	9,788.7	15,346.1	9,769.7	44.8	50.5	88.76	-5,256.7	-1,132.5	880.1	785.5	94.62	9.301
15,390.0	9,788.7	15,436.1	9,769.8	45.4	51.1	88.76	-5,346.7	-1,133.2	880.1	784.2	95.85	9.182
15,400.0	9,788.7	15,446.1	9,769.8	45.5	51.1	88.76	-5,356.7	-1,133.3	880.1	784.1	95.99	9.169
15,485.0	9,788.8	15,531.1	9,769.8	46.1	51.7	88.77	-5,441.7	-1,134.0	880.1	782.9	97.16	9.058
15,500.0	9,788.8	15,546.1	9,769.8	46.2	51.8	88.77	-5,456.7	-1,134.1	880.1	782.7	97.37	9.039
15,580.0	9,788.8	15,626.1	9,769.9	46.8	52.3	88.77	-5,536.7	-1,134.8	880.1	781.6	98.47	8.938
15,600.0	9,788.9	15,646.1	9,769.9	46.9	52.4	88.77	-5,556.7	-1,135.0	880.1	781.4	98.75	8.913
15,675.0	9,788.9	15,721.1	9,770.0	47.5	52.9	88.77	-5,631.7	-1,135.6	880.1	780.3	99.79	8.820
15,700.0	9,788.9	15,746.1	9,770.0	47.6	53.1	88.77	-5,656.7	-1,135.8	880.1	780.0	100.13	8.789
15,770.0	9,788.9	15,816.1	9,770.0	48.2	53.5	88.77	-5,726.7	-1,136.4	880.1	779.0	101.10	8.705
15,800.0	9,789.0	15,846.1	9,770.1	48.4	53.7	88.77	-5,756.7	-1,136.6	880.1	778.6	101.52	8.669
15,865.0	9,789.0	15,911.1	9,770.1	48.8	54.1	88.77	-5,821.7	-1,137.2	880.1	777.7	102.42	8.593
15,900.0	9,789.0	15,946.1	9,770.1	49.1	54.4	88.77	-5,856.7	-1,137.4	880.1	777.2	102.91	8.552
15,960.0	9,789.0	16,006.1	9,770.2	49.5	54.8	88.77	-5,916.7	-1,137.9	880.1	776.3	103.75	8.483
16,000.0	9,789.1	16,046.1	9,770.2	49.8	55.0	88.77	-5,956.7	-1,138.3	880.1	775.8	104.31	8.437
16,055.0	9,789.1	16,101.1	9,770.3	50.2	55.4	88.77	-6,011.7	-1,138.7	880.1	775.0	105.08	8.376
16,100.0	9,789.1	16,146.1	9,770.3	50.6	55.7	88.77	-6,056.7	-1,139.1	880.1	774.4	105.71	8.326
16,150.0	9,789.1	16,196.1	9,770.3	50.9	56.0	88.77	-6,106.7	-1,139.5	880.1	773.7	106.41	8.271
16,200.0	9,789.2	16,246.1	9,770.4	51.3	56.3	88.78	-6,156.7	-1,139.9	880.1	773.0	107.11	8.217
16,245.0	9,789.2	16,291.1	9,770.4	51.6	56.6	88.78	-6,201.7	-1,140.3	880.1	772.4	107.74	8.168
16,300.0	9,789.2	16,346.1	9,770.4	52.0	57.0	88.78	-6,256.7	-1,140.7	880.1	771.6	108.52	8.110
16,340.0	9,789.2	16,386.1	9,770.5	52.3	57.3	88.78	-6,296.7	-1,141.1	880.1	771.0	109.08	8.068
16,400.0	9,789.3	16,446.1	9,770.5	52.8	57.7	88.78	-6,356.7	-1,141.6	880.1	770.2	109.93	8.006
16,435.0	9,789.3	16,481.1	9,770.5	53.0	57.9	88.78	-6,391.7	-1,141.9	880.1	769.7	110.42	7.970
16,500.0	9,789.3	16,546.1	9,770.6	53.5	58.3	88.78	-6,456.7	-1,142.4	880.1	768.8	111.34	7.905
16,530.0	9,789.3	16,576.1	9,770.6	53.7	58.5	88.78	-6,486.7	-1,142.6	880.1	768.3	111.76	7.875
16,600.0	9,789.4	16,646.1	9,770.6	54.2	59.0	88.78	-6,556.7	-1,143.2	880.1	767.3	112.75	7.805
16,625.0	9,789.4	16,671.1	9,770.7	54.4	59.2	88.78	-6,581.7	-1,143.4	880.1	767.0	113.11	7.781
16,700.0	9,789.4	16,746.1	9,770.7	55.0	59.7	88.78	-6,656.7	-1,144.1	880.1	765.9	114.17	7.708
16,720.0	9,789.4	16,766.1	9,770.7	55.1	59.8	88.78	-6,676.7	-1,144.2	880.1	765.6	114.46	7.689
16,800.0	9,789.5	16,846.1	9,770.8	55.7	60.3	88.78	-6,756.7	-1,144.9	880.1	764.5	115.59	7.614
16,815.0	9,789.5	16,861.1	9,770.8	55.8	60.4	88.78	-6,771.6	-1,145.0	880.1	764.3	115.81	7.600
16,900.0	9,789.5	16,946.1	9,770.9	56.4	61.0	88.78	-6,856.6	-1,145.7	880.1	763.1	117.02	7.521
16,910.0	9,789.5	16,956.1	9,770.9	56.5	61.1	88.78	-6,866.6	-1,145.8	880.1	762.9	117.16	7.512

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,000.0	9,789.6	17,046.1	9,770.9	57.2	61.7	88.79	-6,956.6	-1,146.5	880.1	761.6	118.44	7.430		
17,005.0	9,789.6	17,051.1	9,770.9	57.2	61.7	88.79	-6,961.6	-1,146.6	880.1	761.6	118.51	7.426		
17,100.0	9,789.6	17,146.1	9,771.0	57.9	62.4	88.79	-7,056.6	-1,147.4	880.1	760.2	119.87	7.342		
17,195.0	9,789.7	17,241.1	9,771.1	58.6	63.0	88.79	-7,151.6	-1,148.1	880.1	758.9	121.23	7.260		
17,200.0	9,789.7	17,246.1	9,771.1	58.6	63.1	88.79	-7,156.6	-1,148.2	880.1	758.8	121.30	7.255		
17,290.0	9,789.7	17,336.1	9,771.1	59.3	63.7	88.79	-7,246.6	-1,148.9	880.1	757.5	122.59	7.179		
17,300.0	9,789.7	17,346.1	9,771.2	59.4	63.7	88.79	-7,256.6	-1,149.0	880.1	757.3	122.74	7.171		
17,385.0	9,789.8	17,431.1	9,771.2	60.0	64.3	88.79	-7,341.6	-1,149.7	880.1	756.1	123.96	7.100		
17,400.0	9,789.8	17,446.1	9,771.2	60.1	64.4	88.79	-7,356.6	-1,149.8	880.1	755.9	124.17	7.088		
17,480.0	9,789.8	17,526.1	9,771.3	60.7	65.0	88.79	-7,436.6	-1,150.5	880.1	754.8	125.32	7.023		
17,500.0	9,789.9	17,546.1	9,771.3	60.9	65.1	88.79	-7,456.6	-1,150.7	880.1	754.5	125.61	7.007		
17,575.0	9,789.9	17,621.1	9,771.3	61.4	65.6	88.79	-7,531.6	-1,151.3	880.1	753.4	126.69	6.947		
17,600.0	9,789.9	17,646.1	9,771.4	61.6	65.8	88.79	-7,556.6	-1,151.5	880.1	753.0	127.05	6.927		
17,670.0	9,789.9	17,716.1	9,771.4	62.1	66.3	88.79	-7,626.6	-1,152.1	880.1	752.0	128.06	6.873		
17,700.0	9,790.0	17,746.1	9,771.4	62.4	66.5	88.79	-7,656.6	-1,152.3	880.1	751.6	128.49	6.849		
17,765.0	9,790.0	17,811.1	9,771.5	62.8	67.0	88.80	-7,721.6	-1,152.9	880.1	750.6	129.43	6.800		
17,800.0	9,790.0	17,846.1	9,771.5	63.1	67.2	88.80	-7,756.6	-1,153.2	880.1	750.1	129.93	6.773		
17,860.0	9,790.0	17,906.1	9,771.6	63.5	67.6	88.80	-7,816.6	-1,153.6	880.1	749.3	130.80	6.728		
17,900.0	9,790.1	17,946.1	9,771.6	63.8	67.9	88.80	-7,856.6	-1,154.0	880.1	748.7	131.38	6.699		
17,955.0	9,790.1	18,001.1	9,771.6	64.3	68.3	88.80	-7,911.6	-1,154.4	880.1	747.9	132.17	6.658		
18,000.0	9,790.1	18,046.1	9,771.7	64.6	68.6	88.80	-7,956.6	-1,154.8	880.1	747.2	132.83	6.626		
18,050.0	9,790.1	18,096.1	9,771.7	65.0	68.9	88.80	-8,006.6	-1,155.2	880.1	746.5	133.55	6.590		
18,100.0	9,790.2	18,146.1	9,771.7	65.3	69.3	88.80	-8,056.6	-1,155.6	880.1	745.8	134.27	6.554		
18,145.0	9,790.2	18,191.1	9,771.8	65.7	69.6	88.80	-8,101.6	-1,156.0	880.1	745.1	134.93	6.523		
18,200.0	9,790.2	18,246.1	9,771.8	66.1	70.0	88.80	-8,156.6	-1,156.5	880.1	744.3	135.73	6.484		
18,240.0	9,790.2	18,286.1	9,771.8	66.4	70.3	88.80	-8,196.6	-1,156.8	880.1	743.8	136.31	6.457		
18,300.0	9,790.3	18,346.1	9,771.9	66.8	70.7	88.80	-8,256.6	-1,157.3	880.1	742.9	137.18	6.416		
18,335.0	9,790.3	18,381.1	9,771.9	67.1	70.9	88.80	-8,291.6	-1,157.6	880.1	742.4	137.69	6.392		
18,400.0	9,790.3	18,446.1	9,771.9	67.6	71.4	88.80	-8,356.6	-1,158.1	880.1	741.4	138.63	6.348		
18,430.0	9,790.3	18,476.1	9,772.0	67.8	71.6	88.80	-8,386.6	-1,158.4	880.1	741.0	139.07	6.328		
18,500.0	9,790.4	18,546.1	9,772.0	68.3	72.1	88.80	-8,456.6	-1,158.9	880.1	740.0	140.09	6.282		
18,525.0	9,790.4	18,571.1	9,772.0	68.5	72.3	88.81	-8,481.6	-1,159.1	880.1	739.6	140.45	6.266		
18,600.0	9,790.4	18,646.1	9,772.1	69.1	72.8	88.81	-8,556.6	-1,159.8	880.1	738.5	141.54	6.218		
18,620.0	9,790.4	18,666.1	9,772.1	69.2	72.9	88.81	-8,576.6	-1,159.9	880.1	738.2	141.84	6.205		
18,700.0	9,790.5	18,746.1	9,772.2	69.8	73.5	88.81	-8,656.6	-1,160.6	880.1	737.1	143.00	6.154		
18,715.0	9,790.5	18,761.1	9,772.2	69.9	73.6	88.81	-8,671.6	-1,160.7	880.1	736.8	143.22	6.145		
18,800.0	9,790.5	18,846.1	9,772.2	70.6	74.2	88.81	-8,756.6	-1,161.4	880.1	735.6	144.46	6.092		
18,810.0	9,790.5	18,856.1	9,772.2	70.6	74.3	88.81	-8,766.6	-1,161.5	880.1	735.5	144.61	6.086		
18,900.0	9,790.6	18,946.1	9,772.3	71.3	74.9	88.81	-8,856.6	-1,162.2	880.1	734.1	145.92	6.031		
18,905.0	9,790.6	18,951.1	9,772.3	71.3	75.0	88.81	-8,861.6	-1,162.3	880.1	734.1	146.00	6.028		
19,000.0	9,790.6	19,046.1	9,772.4	72.0	75.6	88.81	-8,956.6	-1,163.1	880.1	732.7	147.39	5.971		
19,095.0	9,790.7	19,141.1	9,772.4	72.8	76.3	88.81	-9,051.6	-1,163.9	880.1	731.3	148.78	5.915		
19,100.0	9,790.7	19,146.1	9,772.5	72.8	76.3	88.81	-9,056.6	-1,163.9	880.1	731.2	148.85	5.912		
19,190.0	9,790.7	19,236.1	9,772.5	73.5	77.0	88.81	-9,146.6	-1,164.6	880.1	729.9	150.17	5.860		
19,200.0	9,790.7	19,246.1	9,772.5	73.5	77.1	88.81	-9,156.6	-1,164.7	880.1	729.7	150.32	5.855		
19,285.0	9,790.8	19,331.1	9,772.6	74.2	77.7	88.82	-9,241.6	-1,165.4	880.1	728.5	151.56	5.807		
19,300.0	9,790.8	19,346.1	9,772.6	74.3	77.8	88.82	-9,256.6	-1,165.6	880.1	728.3	151.78	5.798		
19,380.0	9,790.8	19,426.1	9,772.7	74.9	78.3	88.82	-9,336.6	-1,166.2	880.1	727.1	152.96	5.754		
19,400.0	9,790.8	19,446.1	9,772.7	75.0	78.5	88.82	-9,356.6	-1,166.4	880.1	726.8	153.25	5.743		
19,475.0	9,790.9	19,521.1	9,772.7	75.6	79.0	88.82	-9,431.6	-1,167.0	880.1	725.7	154.35	5.702		
19,500.0	9,790.9	19,546.1	9,772.7	75.8	79.2	88.82	-9,456.6	-1,167.2	880.1	725.3	154.72	5.688		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
19,570.0	9,790.9	19,616.1	9,772.8	76.3	79.7	88.82	-9,526.6	-1,167.8	880.1	724.3	155.75	5.651	
19,600.0	9,791.0	19,646.1	9,772.8	76.5	79.9	88.82	-9,556.6	-1,168.0	880.1	723.9	156.19	5.635	
19,665.0	9,791.0	19,711.1	9,772.9	77.0	80.4	88.82	-9,621.6	-1,168.6	880.1	722.9	157.14	5.600	
19,700.0	9,791.0	19,746.1	9,772.9	77.3	80.6	88.82	-9,656.5	-1,168.9	880.1	722.4	157.66	5.582	
19,760.0	9,791.0	19,806.1	9,772.9	77.7	81.1	88.82	-9,716.5	-1,169.4	880.1	721.5	158.54	5.551	
19,800.0	9,791.1	19,846.1	9,773.0	78.0	81.3	88.82	-9,756.5	-1,169.7	880.1	720.9	159.13	5.530	
19,855.0	9,791.1	19,901.1	9,773.0	78.5	81.7	88.82	-9,811.5	-1,170.1	880.1	720.1	159.94	5.502	
19,900.0	9,791.1	19,946.1	9,773.0	78.8	82.1	88.82	-9,856.5	-1,170.5	880.1	719.4	160.60	5.480	
19,950.0	9,791.1	19,996.1	9,773.1	79.2	82.4	88.82	-9,906.5	-1,170.9	880.1	718.7	161.34	5.455	
20,000.0	9,791.2	20,046.1	9,773.1	79.5	82.8	88.82	-9,956.5	-1,171.3	880.0	718.0	162.08	5.430	
20,045.0	9,791.2	20,091.1	9,773.1	79.9	83.1	88.82	-10,001.5	-1,171.7	880.0	717.3	162.74	5.408	
20,100.0	9,791.2	20,146.1	9,773.2	80.3	83.5	88.83	-10,056.5	-1,172.2	880.0	716.5	163.55	5.381	
20,140.0	9,791.2	20,186.1	9,773.2	80.6	83.8	88.83	-10,096.5	-1,172.5	880.0	715.9	164.14	5.361	
20,200.0	9,791.3	20,246.1	9,773.2	81.0	84.2	88.83	-10,156.5	-1,173.0	880.0	715.0	165.03	5.333	
20,235.0	9,791.3	20,281.1	9,773.3	81.3	84.5	88.83	-10,191.5	-1,173.3	880.0	714.5	165.55	5.316	
20,300.0	9,791.3	20,346.1	9,773.3	81.8	84.9	88.83	-10,256.5	-1,173.8	880.0	713.5	166.51	5.285	
20,330.0	9,791.3	20,376.1	9,773.3	82.0	85.2	88.83	-10,286.5	-1,174.1	880.0	713.1	166.95	5.271	
20,400.0	9,791.4	20,446.1	9,773.4	82.6	85.7	88.83	-10,356.5	-1,174.7	880.0	712.1	167.98	5.239	
20,425.0	9,791.4	20,471.1	9,773.4	82.7	85.8	88.83	-10,381.5	-1,174.9	880.0	711.7	168.35	5.227	
20,500.0	9,791.4	20,546.1	9,773.5	83.3	86.4	88.83	-10,456.5	-1,175.5	880.0	710.6	169.46	5.193	
20,520.0	9,791.4	20,566.1	9,773.5	83.5	86.5	88.83	-10,476.5	-1,175.6	880.0	710.3	169.76	5.184	
20,600.0	9,791.5	20,646.1	9,773.5	84.1	87.1	88.83	-10,556.5	-1,176.3	880.0	709.1	170.94	5.148	
20,615.0	9,791.5	20,661.1	9,773.5	84.2	87.2	88.83	-10,571.5	-1,176.4	880.0	708.9	171.16	5.142	
20,700.0	9,791.5	20,746.1	9,773.6	84.8	87.8	88.83	-10,656.5	-1,177.1	880.0	707.6	172.42	5.104	
20,710.0	9,791.5	20,756.1	9,773.6	84.9	87.9	88.83	-10,666.5	-1,177.2	880.0	707.5	172.57	5.100	
20,800.0	9,791.6	20,846.1	9,773.7	85.6	88.6	88.83	-10,756.5	-1,178.0	880.0	706.1	173.90	5.061	
20,805.0	9,791.6	20,851.1	9,773.7	85.6	88.6	88.83	-10,761.5	-1,178.0	880.0	706.1	173.98	5.058	
20,900.0	9,791.6	20,946.1	9,773.8	86.3	89.3	88.84	-10,856.5	-1,178.8	880.0	704.7	175.38	5.018	
20,995.0	9,791.7	21,041.1	9,773.8	87.0	90.0	88.84	-10,951.5	-1,179.6	880.0	703.2	176.79	4.978	
21,000.0	9,791.7	21,046.1	9,773.8	87.1	90.0	88.84	-10,956.5	-1,179.6	880.0	703.2	176.87	4.976	
21,090.0	9,791.7	21,136.1	9,773.9	87.7	90.7	88.84	-11,046.5	-1,180.4	880.0	701.8	178.20	4.938	
21,100.0	9,791.7	21,146.1	9,773.9	87.8	90.7	88.84	-11,056.5	-1,180.4	880.0	701.7	178.35	4.934	
21,185.0	9,791.8	21,231.1	9,774.0	88.5	91.4	88.84	-11,141.5	-1,181.1	880.0	700.4	179.61	4.900	
21,200.0	9,791.8	21,246.1	9,774.0	88.6	91.5	88.84	-11,156.5	-1,181.3	880.0	700.2	179.84	4.894	
21,280.0	9,791.8	21,326.1	9,774.0	89.2	92.1	88.84	-11,236.5	-1,181.9	880.0	699.0	181.02	4.861	
21,300.0	9,791.8	21,346.1	9,774.0	89.3	92.2	88.84	-11,256.5	-1,182.1	880.0	698.7	181.32	4.853	
21,375.0	9,791.9	21,421.1	9,774.1	89.9	92.7	88.84	-11,331.5	-1,182.7	880.0	697.6	182.43	4.824	
21,400.0	9,791.9	21,446.1	9,774.1	90.1	92.9	88.84	-11,356.5	-1,182.9	880.0	697.2	182.81	4.814	
21,470.0	9,791.9	21,516.1	9,774.2	90.6	93.4	88.84	-11,426.5	-1,183.5	880.0	696.2	183.85	4.787	
21,500.0	9,791.9	21,546.1	9,774.2	90.8	93.7	88.84	-11,456.5	-1,183.8	880.0	695.7	184.29	4.775	
21,565.0	9,792.0	21,611.1	9,774.2	91.3	94.1	88.84	-11,521.5	-1,184.3	880.0	694.8	185.26	4.750	
21,600.0	9,792.0	21,646.1	9,774.3	91.6	94.4	88.85	-11,556.5	-1,184.6	880.0	694.3	185.78	4.737	
21,660.0	9,792.0	21,706.1	9,774.3	92.0	94.8	88.85	-11,616.5	-1,185.1	880.0	693.4	186.67	4.714	
21,700.0	9,792.1	21,746.1	9,774.3	92.3	95.1	88.85	-11,656.5	-1,185.4	880.0	692.8	187.27	4.699	
21,755.0	9,792.1	21,801.1	9,774.4	92.8	95.5	88.85	-11,711.5	-1,185.9	880.0	691.9	188.09	4.679	
21,800.0	9,792.1	21,846.1	9,774.4	93.1	95.9	88.85	-11,756.5	-1,186.2	880.0	691.3	188.76	4.662	
21,850.0	9,792.1	21,896.1	9,774.4	93.5	96.2	88.85	-11,806.5	-1,186.6	880.0	690.5	189.50	4.644	
21,900.0	9,792.2	21,946.1	9,774.5	93.9	96.6	88.85	-11,856.5	-1,187.1	880.0	689.8	190.24	4.626	
21,945.0	9,792.2	21,991.1	9,774.5	94.2	96.9	88.85	-11,901.5	-1,187.4	880.0	689.1	190.91	4.610	
22,000.0	9,792.2	22,046.1	9,774.6	94.6	97.3	88.85	-11,956.5	-1,187.9	880.0	688.3	191.73	4.590	
22,040.0	9,792.2	22,086.1	9,774.6	94.9	97.6	88.85	-11,996.5	-1,188.2	880.0	687.7	192.33	4.576	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
22,100.0	9,792.3	22,146.1	9,774.6	95.4	98.0	88.85	-12,056.5	-1,188.7	880.0	686.8	193.22	4.554	
22,135.0	9,792.3	22,181.1	9,774.6	95.6	98.3	88.85	-12,091.5	-1,189.0	880.0	686.3	193.75	4.542	
22,200.0	9,792.3	22,246.1	9,774.7	96.1	98.8	88.85	-12,156.5	-1,189.5	880.0	685.3	194.71	4.520	
22,230.0	9,792.3	22,276.1	9,774.7	96.3	99.0	88.85	-12,186.5	-1,189.8	880.0	684.9	195.16	4.509	
22,300.0	9,792.4	22,346.1	9,774.8	96.9	99.5	88.85	-12,256.5	-1,190.4	880.0	683.8	196.21	4.485	
22,325.0	9,792.4	22,371.1	9,774.8	97.1	99.7	88.85	-12,281.5	-1,190.6	880.0	683.4	196.58	4.477	
22,400.0	9,792.4	22,446.1	9,774.8	97.6	100.2	88.86	-12,356.5	-1,191.2	880.0	682.3	197.70	4.451	
22,420.0	9,792.4	22,466.1	9,774.9	97.8	100.4	88.86	-12,376.5	-1,191.4	880.0	682.0	198.00	4.445	
22,500.0	9,792.5	22,546.1	9,774.9	98.4	101.0	88.86	-12,456.5	-1,192.0	880.0	680.8	199.19	4.418	
22,515.0	9,792.5	22,561.1	9,774.9	98.5	101.1	88.86	-12,471.5	-1,192.1	880.0	680.6	199.41	4.413	
22,600.0	9,792.5	22,646.1	9,775.0	99.1	101.7	88.86	-12,556.4	-1,192.8	880.0	679.3	200.68	4.385	
22,610.0	9,792.5	22,656.1	9,775.0	99.2	101.8	88.86	-12,566.4	-1,192.9	880.0	679.2	200.83	4.382	
22,700.0	9,792.6	22,746.1	9,775.1	99.9	102.5	88.86	-12,656.4	-1,193.7	880.0	677.8	202.18	4.353	
22,705.0	9,792.6	22,751.1	9,775.1	99.9	102.5	88.86	-12,661.4	-1,193.7	880.0	677.8	202.25	4.351	
22,800.0	9,792.6	22,846.1	9,775.1	100.7	103.2	88.86	-12,756.4	-1,194.5	880.0	676.3	203.67	4.321	
22,895.0	9,792.7	22,941.1	9,775.2	101.4	103.9	88.86	-12,851.4	-1,195.3	880.0	674.9	205.09	4.291	
22,900.0	9,792.7	22,946.1	9,775.2	101.4	103.9	88.86	-12,856.4	-1,195.3	880.0	674.9	205.17	4.289	
22,990.0	9,792.7	23,036.1	9,775.3	102.1	104.6	88.86	-12,946.4	-1,196.1	880.0	673.5	206.51	4.261	
23,000.0	9,792.7	23,046.1	9,775.3	102.2	104.7	88.86	-12,956.4	-1,196.2	880.0	673.4	206.66	4.258	
23,085.0	9,792.8	23,131.1	9,775.3	102.8	105.3	88.86	-13,041.4	-1,196.9	880.0	672.1	207.93	4.232	
23,100.0	9,792.8	23,146.1	9,775.3	102.9	105.4	88.86	-13,056.4	-1,197.0	880.0	671.9	208.16	4.228	
23,180.0	9,792.8	23,226.1	9,775.4	103.5	106.0	88.87	-13,136.4	-1,197.6	880.0	670.7	209.35	4.203	
23,200.0	9,792.8	23,246.1	9,775.4	103.7	106.1	88.87	-13,156.4	-1,197.8	880.0	670.4	209.65	4.197	
23,275.0	9,792.9	23,321.1	9,775.5	104.2	106.7	88.87	-13,231.4	-1,198.4	880.0	669.2	210.77	4.175	
23,300.0	9,792.9	23,346.1	9,775.5	104.4	106.9	88.87	-13,256.4	-1,198.6	880.0	668.9	211.15	4.168	
23,370.0	9,792.9	23,416.1	9,775.5	105.0	107.4	88.87	-13,326.4	-1,199.2	880.0	667.8	212.20	4.147	
23,400.0	9,792.9	23,446.1	9,775.6	105.2	107.6	88.87	-13,356.4	-1,199.5	880.0	667.4	212.65	4.138	
23,465.0	9,793.0	23,511.1	9,775.6	105.7	108.1	88.87	-13,421.4	-1,200.0	880.0	666.4	213.62	4.120	
23,500.0	9,793.0	23,546.1	9,775.6	105.9	108.4	88.87	-13,456.4	-1,200.3	880.0	665.9	214.14	4.109	
23,560.0	9,793.0	23,606.1	9,775.7	106.4	108.8	88.87	-13,516.4	-1,200.8	880.0	665.0	215.04	4.092	
23,600.0	9,793.0	23,646.1	9,775.7	106.7	109.1	88.87	-13,556.4	-1,201.1	880.0	664.4	215.64	4.081	
23,655.0	9,793.1	23,701.1	9,775.7	107.1	109.5	88.87	-13,611.4	-1,201.6	880.0	663.5	216.46	4.065	
23,700.0	9,793.1	23,746.1	9,775.8	107.5	109.8	88.87	-13,656.4	-1,201.9	880.0	662.9	217.14	4.053	
23,750.0	9,793.1	23,796.1	9,775.8	107.8	110.2	88.87	-13,706.4	-1,202.4	880.0	662.1	217.89	4.039	
23,800.0	9,793.2	23,846.1	9,775.9	108.2	110.6	88.87	-13,756.4	-1,202.8	880.0	661.4	218.64	4.025	
23,845.0	9,793.2	23,891.1	9,775.9	108.6	110.9	88.87	-13,801.4	-1,203.1	880.0	660.7	219.31	4.013	
23,900.0	9,793.2	23,946.1	9,775.9	109.0	111.3	88.87	-13,856.4	-1,203.6	880.0	659.9	220.14	3.998	
23,940.0	9,793.2	23,986.1	9,776.0	109.3	111.6	88.88	-13,896.4	-1,203.9	880.0	659.3	220.74	3.987	
24,000.0	9,793.3	24,046.1	9,776.0	109.7	112.1	88.88	-13,956.4	-1,204.4	880.0	658.4	221.63	3.971	
24,035.0	9,793.3	24,081.1	9,776.0	110.0	112.3	88.88	-13,991.4	-1,204.7	880.0	657.8	222.16	3.961	
24,100.0	9,793.3	24,146.1	9,776.1	110.5	112.8	88.88	-14,056.4	-1,205.3	880.0	656.9	223.13	3.944	
24,130.0	9,793.3	24,176.1	9,776.1	110.7	113.0	88.88	-14,086.4	-1,205.5	880.0	656.4	223.58	3.936	
24,200.0	9,793.4	24,246.1	9,776.1	111.2	113.5	88.88	-14,156.4	-1,206.1	880.0	655.4	224.63	3.917	
24,225.0	9,793.4	24,271.1	9,776.2	111.4	113.7	88.88	-14,181.4	-1,206.3	880.0	655.0	225.01	3.911	
24,300.0	9,793.4	24,346.1	9,776.2	112.0	114.3	88.88	-14,256.4	-1,206.9	880.0	653.9	226.14	3.891	
24,320.0	9,793.4	24,366.1	9,776.2	112.2	114.4	88.88	-14,276.4	-1,207.1	880.0	653.6	226.44	3.886	
24,400.0	9,793.5	24,446.1	9,776.3	112.8	115.0	88.88	-14,356.4	-1,207.7	880.0	652.4	227.64	3.866	
24,415.0	9,793.5	24,461.1	9,776.3	112.9	115.1	88.88	-14,371.4	-1,207.9	880.0	652.1	227.86	3.862	
24,500.0	9,793.5	24,546.1	9,776.4	113.5	115.8	88.88	-14,456.4	-1,208.6	880.0	650.9	229.14	3.840	
24,510.0	9,793.5	24,556.1	9,776.4	113.6	115.8	88.88	-14,466.4	-1,208.6	880.0	650.7	229.29	3.838	
24,600.0	9,793.6	24,646.1	9,776.4	114.3	116.5	88.88	-14,556.4	-1,209.4	880.0	649.4	230.64	3.815	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
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	
24,605.0	9,793.6	24,651.1	9,776.4	114.3	116.5	88.88	-14,561.4	-1,209.4	880.0	649.3	230.71	3.814		
24,700.0	9,793.6	24,746.1	9,776.5	115.0	117.2	88.89	-14,656.4	-1,210.2	880.0	647.9	232.14	3.791		
24,795.0	9,793.7	24,841.1	9,776.6	115.8	118.0	88.89	-14,751.4	-1,211.0	880.0	646.4	233.57	3.768		
24,800.0	9,793.7	24,846.1	9,776.6	115.8	118.0	88.89	-14,756.4	-1,211.0	880.0	646.4	233.64	3.766		
24,890.0	9,793.7	24,936.1	9,776.6	116.5	118.7	88.89	-14,846.4	-1,211.8	880.0	645.0	235.00	3.745		
24,900.0	9,793.7	24,946.1	9,776.6	116.6	118.7	88.89	-14,856.4	-1,211.9	880.0	644.8	235.15	3.742		
24,985.0	9,793.8	25,031.1	9,776.7	117.2	119.4	88.89	-14,941.4	-1,212.6	880.0	643.6	236.42	3.722		
25,000.0	9,793.8	25,046.1	9,776.7	117.3	119.5	88.89	-14,956.4	-1,212.7	880.0	643.3	236.65	3.719		
25,080.0	9,793.8	25,126.1	9,776.8	117.9	120.1	88.89	-15,036.4	-1,213.4	880.0	642.1	237.85	3.700		
25,100.0	9,793.8	25,146.1	9,776.8	118.1	120.2	88.89	-15,056.4	-1,213.5	880.0	641.8	238.15	3.695		
25,175.0	9,793.9	25,221.1	9,776.8	118.6	120.8	88.89	-15,131.4	-1,214.1	880.0	640.7	239.28	3.678		
25,200.0	9,793.9	25,246.1	9,776.9	118.8	121.0	88.89	-15,156.4	-1,214.3	880.0	640.3	239.66	3.672		
25,270.0	9,793.9	25,316.1	9,776.9	119.4	121.5	88.89	-15,226.4	-1,214.9	880.0	639.3	240.71	3.656		
25,278.2	9,793.9	25,324.3	9,776.9	119.4	121.5	88.89	-15,234.5	-1,215.0	880.0	639.2	240.83	3.654		
25,300.0	9,793.9	25,346.1	9,776.9	119.6	121.7	88.89	-15,256.4	-1,215.2	880.0	638.8	241.16	3.649		
25,365.0	9,794.0	25,411.1	9,777.0	120.1	122.2	88.89	-15,321.4	-1,215.7	880.0	637.9	242.14	3.634		
25,382.4	9,794.0	25,428.6	9,777.0	120.2	122.3	88.89	-15,338.8	-1,215.9	880.0	637.6	242.40	3.630		
25,408.3	9,794.0	25,430.7	9,777.0	120.4	122.3	88.89	-15,340.9	-1,215.9	880.3	637.6	242.72	3.627		

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - LEONARDO BKL FEDERAL COM #1 - OWB - AWP											Offset Site Error:	0.0 usft
Survey Program: 250-INC-ONLY											Offset Well Error:	10.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
10,500.0	9,786.2	9,765.8	9,759.5	19.9	287.6	89.96	-1,494.3	-988.5	1,289.5	985.9	303.59	4.248
10,545.0	9,786.2	9,765.8	9,759.5	20.0	287.6	89.96	-1,494.3	-988.5	1,253.6	950.1	303.53	4.130
10,600.0	9,786.2	9,765.8	9,759.5	20.0	287.6	89.96	-1,494.3	-988.5	1,210.6	907.1	303.46	3.989
10,640.0	9,786.3	9,765.8	9,759.6	20.0	287.6	89.96	-1,494.3	-988.5	1,179.9	876.5	303.42	3.889
10,700.0	9,786.3	9,765.9	9,759.6	20.1	287.6	89.97	-1,494.3	-988.5	1,135.0	831.7	303.36	3.741
10,735.0	9,786.3	9,765.9	9,759.6	20.1	287.6	89.97	-1,494.3	-988.5	1,109.5	806.1	303.34	3.658
10,800.0	9,786.3	9,765.9	9,759.6	20.2	287.6	89.97	-1,494.3	-988.5	1,063.5	760.1	303.31	3.506
10,830.0	9,786.4	9,765.9	9,759.7	20.2	287.6	89.97	-1,494.3	-988.5	1,042.9	739.6	303.32	3.438
10,900.0	9,786.4	9,766.0	9,759.7	20.3	287.6	89.98	-1,494.3	-988.5	996.8	693.5	303.36	3.286
10,925.0	9,786.4	9,766.0	9,759.7	20.3	287.6	89.98	-1,494.3	-988.5	981.0	677.7	303.39	3.234
11,000.0	9,786.4	9,766.0	9,759.7	20.4	287.6	89.98	-1,494.3	-988.5	936.1	632.6	303.52	3.084
11,020.0	9,786.5	9,766.0	9,759.8	20.4	287.6	89.98	-1,494.3	-988.5	924.8	621.2	303.57	3.046
11,100.0	9,786.5	9,766.1	9,759.8	20.5	287.6	89.98	-1,494.3	-988.5	882.6	578.8	303.85	2.905
11,115.0	9,786.5	9,766.1	9,759.8	20.6	287.6	89.98	-1,494.3	-988.5	875.3	571.4	303.92	2.880
11,200.0	9,786.5	9,766.1	9,759.8	20.7	287.6	89.99	-1,494.3	-988.5	837.7	533.3	304.37	2.752
11,210.0	9,786.6	9,766.1	9,759.9	20.7	287.6	89.99	-1,494.3	-988.5	833.7	529.3	304.44	2.739
11,300.0	9,786.6	9,766.2	9,759.9	20.9	287.6	89.99	-1,494.3	-988.5	802.7	497.6	305.10	2.631
11,305.0	9,786.6	9,766.2	9,759.9	20.9	287.6	89.99	-1,494.3	-988.5	801.3	496.1	305.14	2.626
11,400.0	9,786.7	9,766.2	9,760.0	21.1	287.6	89.99	-1,494.3	-988.5	779.2	473.2	306.00	2.546
11,495.0	9,786.7	9,766.3	9,760.0	21.4	287.6	90.00	-1,494.3	-988.5	768.2	461.3	306.96	2.503
11,500.0	9,786.7	9,766.3	9,760.0	21.4	287.6	90.00	-1,494.3	-988.5	768.0	461.0	307.01	2.501
11,536.5	9,786.7	9,766.3	9,760.0	21.5	287.6	90.00	-1,494.3	-988.5	767.1	459.7	307.38	2.496 CC, ES, SF
11,590.0	9,786.8	9,766.3	9,760.1	21.6	287.6	90.00	-1,494.3	-988.5	769.0	461.0	307.92	2.497
11,600.0	9,786.8	9,766.3	9,760.1	21.7	287.6	90.00	-1,494.3	-988.5	769.7	461.7	308.02	2.499
11,685.0	9,786.8	9,766.4	9,760.1	21.9	287.6	90.01	-1,494.3	-988.5	781.3	472.5	308.83	2.530
11,700.0	9,786.8	9,766.4	9,760.1	22.0	287.6	90.01	-1,494.3	-988.5	784.3	475.4	308.96	2.539
11,780.0	9,786.9	9,766.4	9,760.2	22.3	287.6	90.01	-1,494.3	-988.5	804.8	495.2	309.61	2.599
11,800.0	9,786.9	9,766.4	9,760.2	22.4	287.6	90.01	-1,494.3	-988.5	811.1	501.3	309.75	2.618
11,875.0	9,786.9	9,766.5	9,760.2	22.7	287.6	90.01	-1,494.3	-988.5	838.4	528.2	310.24	2.703
11,900.0	9,786.9	9,766.5	9,760.2	22.8	287.6	90.01	-1,494.3	-988.5	848.8	538.5	310.38	2.735
11,970.0	9,787.0	9,766.5	9,760.3	23.1	287.6	90.02	-1,494.3	-988.5	881.1	570.4	310.71	2.836
12,000.0	9,787.0	9,766.5	9,760.3	23.2	287.6	90.02	-1,494.3	-988.5	896.2	585.4	310.83	2.883
12,065.0	9,787.0	9,766.6	9,760.3	23.5	287.6	90.02	-1,494.3	-988.5	931.5	620.5	311.05	2.995
12,100.0	9,787.0	9,766.6	9,760.3	23.7	287.6	90.02	-1,494.3	-988.5	951.8	640.7	311.15	3.059
12,160.0	9,787.0	9,766.6	9,760.3	24.0	287.6	90.02	-1,494.3	-988.5	988.5	677.2	311.28	3.176
12,200.0	9,787.1	9,766.7	9,760.4	24.2	287.6	90.03	-1,494.3	-988.5	1,014.2	702.9	311.35	3.257
12,255.0	9,787.1	9,766.7	9,760.4	24.5	287.6	90.03	-1,494.3	-988.5	1,051.0	739.6	311.42	3.375
12,300.0	9,787.1	9,766.7	9,760.4	24.7	287.6	90.03	-1,494.3	-988.5	1,082.3	770.8	311.47	3.475
12,350.0	9,787.1	9,766.7	9,760.4	25.0	287.6	90.03	-1,494.3	-988.5	1,118.1	806.6	311.50	3.589
12,400.0	9,787.2	9,766.8	9,760.5	25.3	287.6	90.03	-1,494.3	-988.5	1,155.0	843.5	311.53	3.707
12,445.0	9,787.2	9,766.8	9,760.5	25.6	287.6	90.04	-1,494.3	-988.5	1,189.0	877.5	311.54	3.817
12,500.0	9,787.2	9,766.8	9,760.5	25.9	287.6	90.04	-1,494.3	-988.5	1,231.5	920.0	311.55	3.953
12,540.0	9,787.2	9,766.8	9,760.5	26.1	287.6	90.04	-1,494.3	-988.5	1,263.1	951.5	311.55	4.054
12,600.0	9,787.3	9,766.9	9,760.6	26.5	287.6	90.04	-1,494.3	-988.5	1,311.3	999.7	311.54	4.209

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3124.7ft @ 3156.7usft

Offset Depths are relative to Offset Datum

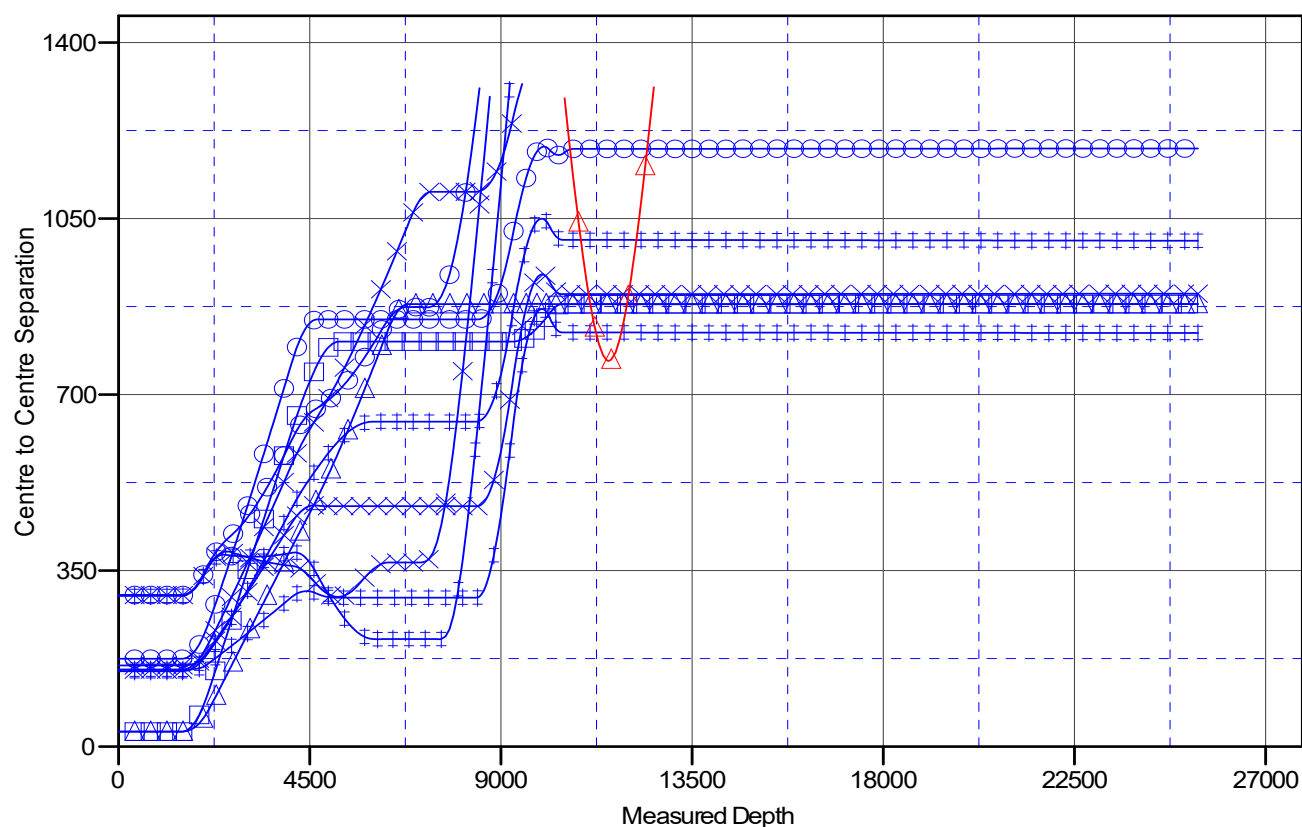
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #802H

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

Grid Convergence at Surface is: 0.08°

Ladder Plot



LEGEND

FLAMING SNAIL FEDERAL COM #501H, OWB, PWP 1 V0	FLAMING SNAIL FEDERAL COM #702H, OWB, PWP 1 V0	FLAMING SNAIL FEDERAL COM #801H, OWB, PWP 1 V0
FLAMING SNAIL FEDERAL COM #502H, OWB, PWP 0 V0	FLAMING SNAIL FEDERAL COM #703H, OWB, PWP 1 V0	FLAMING SNAIL FEDERAL COM #803H, OWB, PWP 1 V0
FLAMING SNAIL FEDERAL COM #520H, OWB, PWP 0 V0	FLAMING SNAIL FEDERAL COM #704H, OWB, PWP 1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #701H, OWB, PWP 1 V0	FLAMING SNAIL FEDERAL COM #705H, OWB, PWP 1 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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3124.7ft @ 3156.7usft

Offset Depths are relative to Offset Datum

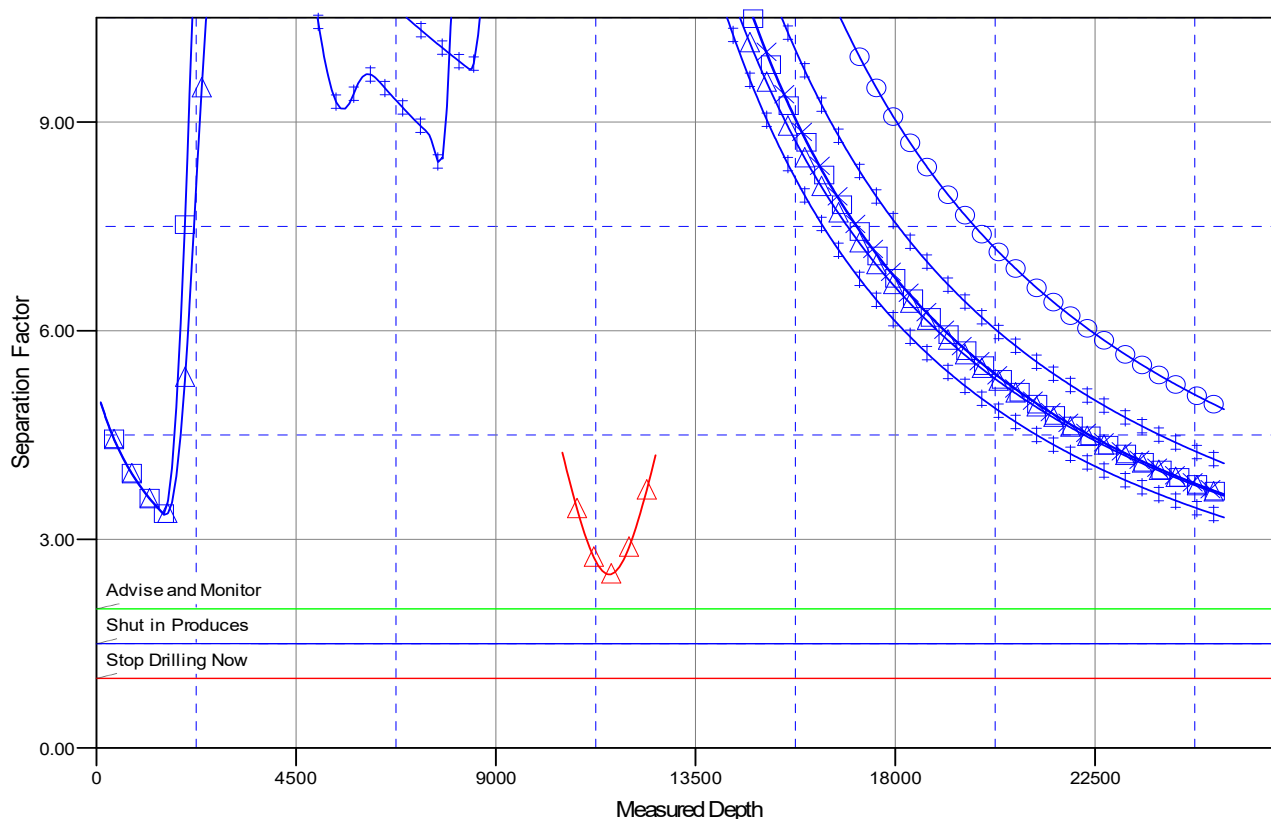
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #802H

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

Grid Convergence at Surface is: 0.08°

Separation Factor Plot



LEGEND

FLAMING SNAIL FEDERAL COM #501H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #702H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #801H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #502H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #703H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #803H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #504H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #705H, 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 #802H

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 #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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 #802H					
Well Position	+N/-S	-398.0 usft	Northing:	402,623.70 usft	Latitude:	32° 6' 24.648 N
	+E/-W	4,310.5 usft	Easting:	544,622.40 usft	Longitude:	104° 11' 21.193 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,124.7 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,317.60332620

Design	PWP1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	181.25

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	9,257.4 PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	9,257.4	25,408.3 PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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	
2,050.0	11.00	335.54	2,046.6	47.9	-21.8	2.00	2.00	0.00	335.54	
4,097.4	11.00	335.54	4,056.4	403.5	-183.5	0.00	0.00	0.00	0.00	
4,647.4	0.00	0.00	4,603.0	451.4	-205.3	2.00	-2.00	0.00	180.00	
9,257.4	0.00	0.00	9,213.0	451.4	-205.3	0.00	0.00	0.00	0.00	VT (FLAMING SNAIL
10,157.1	89.97	180.47	9,786.0	-121.2	-210.0	10.00	10.00	-19.95	180.47	
25,278.2	89.97	180.47	9,793.9	-15,241.8	-335.2	0.00	0.00	0.00	0.00	LTP (FLAMING SNAIL
25,408.3	89.97	180.47	9,794.0	-15,371.9	-336.3	0.00	0.00	0.00	0.00	PBHL (FLAMING SNAIL

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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	335.54	1,600.0	1.6	-0.7	-1.6	2.00	2.00	0.00
1,700.0	4.00	335.54	1,699.8	6.4	-2.9	-6.3	2.00	2.00	0.00
1,800.0	6.00	335.54	1,799.5	14.3	-6.5	-14.1	2.00	2.00	0.00
1,900.0	8.00	335.54	1,898.7	25.4	-11.5	-25.1	2.00	2.00	0.00
2,000.0	10.00	335.54	1,997.5	39.6	-18.0	-39.2	2.00	2.00	0.00
2,050.0	11.00	335.54	2,046.6	47.9	-21.8	-47.4	2.00	2.00	0.00
Start 2047.4 hold at 2050.0 MD									
2,100.0	11.00	335.54	2,095.7	56.6	-25.7	-56.0	0.00	0.00	0.00
2,200.0	11.00	335.54	2,193.9	74.0	-33.6	-73.2	0.00	0.00	0.00
2,300.0	11.00	335.54	2,292.0	91.3	-41.5	-90.4	0.00	0.00	0.00
2,400.0	11.00	335.54	2,390.2	108.7	-49.4	-107.6	0.00	0.00	0.00
2,500.0	11.00	335.54	2,488.4	126.1	-57.3	-124.8	0.00	0.00	0.00
2,600.0	11.00	335.54	2,586.5	143.4	-65.2	-142.0	0.00	0.00	0.00
2,700.0	11.00	335.54	2,684.7	160.8	-73.1	-159.2	0.00	0.00	0.00
2,800.0	11.00	335.54	2,782.8	178.2	-81.0	-176.4	0.00	0.00	0.00
2,900.0	11.00	335.54	2,881.0	195.5	-88.9	-193.5	0.00	0.00	0.00
3,000.0	11.00	335.54	2,979.2	212.9	-96.8	-210.7	0.00	0.00	0.00
3,100.0	11.00	335.54	3,077.3	230.3	-104.7	-227.9	0.00	0.00	0.00
3,200.0	11.00	335.54	3,175.5	247.6	-112.6	-245.1	0.00	0.00	0.00
3,300.0	11.00	335.54	3,273.7	265.0	-120.5	-262.3	0.00	0.00	0.00
3,400.0	11.00	335.54	3,371.8	282.4	-128.4	-279.5	0.00	0.00	0.00
3,500.0	11.00	335.54	3,470.0	299.7	-136.3	-296.7	0.00	0.00	0.00
3,600.0	11.00	335.54	3,568.2	317.1	-144.2	-313.9	0.00	0.00	0.00
3,700.0	11.00	335.54	3,666.3	334.5	-152.1	-331.1	0.00	0.00	0.00
3,800.0	11.00	335.54	3,764.5	351.8	-160.0	-348.3	0.00	0.00	0.00
3,900.0	11.00	335.54	3,862.6	369.2	-167.9	-365.5	0.00	0.00	0.00
4,000.0	11.00	335.54	3,960.8	386.6	-175.8	-382.6	0.00	0.00	0.00
4,097.4	11.00	335.54	4,056.4	403.5	-183.5	-399.4	0.00	0.00	0.00
Start Drop -2.00									
4,100.0	10.95	335.54	4,059.0	403.9	-183.7	-399.8	2.00	-2.00	0.00
4,200.0	8.95	335.54	4,157.5	419.7	-190.9	-415.4	2.00	-2.00	0.00
4,300.0	6.95	335.54	4,256.5	432.3	-196.6	-427.9	2.00	-2.00	0.00
4,400.0	4.95	335.54	4,356.0	441.7	-200.9	-437.2	2.00	-2.00	0.00
4,500.0	2.95	335.54	4,455.7	448.0	-203.7	-443.4	2.00	-2.00	0.00
4,600.0	0.95	335.54	4,555.6	451.0	-205.1	-446.5	2.00	-2.00	0.00
4,647.4	0.00	0.00	4,603.0	451.4	-205.3	-446.8	2.00	-2.00	51.64
Start 4610.0 hold at 4647.4 MD									

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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)
4,700.0	0.00	0.00	4,655.6	451.4	-205.3	-446.8	0.00	0.00	0.00
4,800.0	0.00	0.00	4,755.6	451.4	-205.3	-446.8	0.00	0.00	0.00
4,900.0	0.00	0.00	4,855.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,000.0	0.00	0.00	4,955.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,100.0	0.00	0.00	5,055.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,200.0	0.00	0.00	5,155.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,255.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,355.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,455.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,555.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,655.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,755.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,855.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,955.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,100.0	0.00	0.00	6,055.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,155.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,255.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,355.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,455.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,555.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,655.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,755.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,855.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,955.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,055.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,155.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,255.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,355.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,455.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,555.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,655.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,755.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,855.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,955.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,055.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,155.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,255.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,355.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,455.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,600.0	0.00	0.00	8,555.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,655.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,755.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,855.6	451.4	-205.3	-446.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,955.6	451.4	-205.3	-446.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,055.6	451.4	-205.3	-446.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,155.6	451.4	-205.3	-446.8	0.00	0.00	0.00
9,257.4	0.00	0.00	9,213.0	451.4	-205.3	-446.8	0.00	0.00	0.00
Start DLS 10.00 TFO 180.47									
9,300.0	4.26	180.47	9,255.6	449.8	-205.3	-445.2	10.00	10.00	0.00
9,350.0	9.26	180.47	9,305.2	443.9	-205.4	-439.3	10.00	10.00	0.00
9,400.0	14.26	180.47	9,354.2	433.7	-205.4	-429.1	10.00	10.00	0.00
9,450.0	19.26	180.47	9,402.0	419.3	-205.6	-414.7	10.00	10.00	0.00
9,500.0	24.26	180.47	9,448.5	400.8	-205.7	-396.2	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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)
9,550.0	29.26	180.47	9,493.1	378.3	-205.9	-373.7	10.00	10.00	0.00
9,600.0	34.26	180.47	9,535.6	352.0	-206.1	-347.4	10.00	10.00	0.00
9,650.0	39.26	180.47	9,575.6	322.1	-206.4	-317.5	10.00	10.00	0.00
9,700.0	44.26	180.47	9,612.9	288.8	-206.6	-284.2	10.00	10.00	0.00
9,750.0	49.26	180.47	9,647.2	252.4	-206.9	-247.8	10.00	10.00	0.00
9,800.0	54.26	180.47	9,678.1	213.1	-207.3	-208.5	10.00	10.00	0.00
9,850.0	59.26	180.47	9,705.5	171.3	-207.6	-166.7	10.00	10.00	0.00
9,900.0	64.26	180.47	9,729.1	127.3	-208.0	-122.7	10.00	10.00	0.00
9,950.0	69.26	180.47	9,748.9	81.4	-208.4	-76.8	10.00	10.00	0.00
10,000.0	74.26	180.47	9,764.5	33.9	-208.8	-29.3	10.00	10.00	0.00
10,050.0	79.26	180.47	9,776.0	-14.8	-209.2	19.3	10.00	10.00	0.00
10,100.0	84.26	180.47	9,783.1	-64.2	-209.6	68.8	10.00	10.00	0.00
10,150.0	89.26	180.47	9,786.0	-114.1	-210.0	118.7	10.00	10.00	0.00
10,157.1	89.97	180.47	9,786.0	-121.2	-210.0	125.8	10.00	10.00	0.00
Start 15121.1 hold at 10157.1 MD									
10,200.0	89.97	180.47	9,786.0	-164.1	-210.4	168.7	0.00	0.00	0.00
10,300.0	89.97	180.47	9,786.1	-264.1	-211.2	268.7	0.00	0.00	0.00
10,400.0	89.97	180.47	9,786.1	-364.1	-212.1	368.7	0.00	0.00	0.00
10,500.0	89.97	180.47	9,786.2	-464.1	-212.9	468.7	0.00	0.00	0.00
10,600.0	89.97	180.47	9,786.2	-564.1	-213.7	568.7	0.00	0.00	0.00
10,700.0	89.97	180.47	9,786.3	-664.1	-214.5	668.7	0.00	0.00	0.00
10,800.0	89.97	180.47	9,786.3	-764.1	-215.4	768.6	0.00	0.00	0.00
10,900.0	89.97	180.47	9,786.4	-864.1	-216.2	868.6	0.00	0.00	0.00
11,000.0	89.97	180.47	9,786.4	-964.1	-217.0	968.6	0.00	0.00	0.00
11,100.0	89.97	180.47	9,786.5	-1,064.1	-217.8	1,068.6	0.00	0.00	0.00
11,200.0	89.97	180.47	9,786.5	-1,164.1	-218.7	1,168.6	0.00	0.00	0.00
11,300.0	89.97	180.47	9,786.6	-1,264.1	-219.5	1,268.6	0.00	0.00	0.00
11,400.0	89.97	180.47	9,786.7	-1,364.1	-220.3	1,368.6	0.00	0.00	0.00
11,500.0	89.97	180.47	9,786.7	-1,464.1	-221.2	1,468.6	0.00	0.00	0.00
11,600.0	89.97	180.47	9,786.8	-1,564.1	-222.0	1,568.6	0.00	0.00	0.00
11,700.0	89.97	180.47	9,786.8	-1,664.1	-222.8	1,668.6	0.00	0.00	0.00
11,800.0	89.97	180.47	9,786.9	-1,764.1	-223.6	1,768.6	0.00	0.00	0.00
11,900.0	89.97	180.47	9,786.9	-1,864.1	-224.5	1,868.5	0.00	0.00	0.00
12,000.0	89.97	180.47	9,787.0	-1,964.1	-225.3	1,968.5	0.00	0.00	0.00
12,100.0	89.97	180.47	9,787.0	-2,064.1	-226.1	2,068.5	0.00	0.00	0.00
12,200.0	89.97	180.47	9,787.1	-2,164.1	-226.9	2,168.5	0.00	0.00	0.00
12,300.0	89.97	180.47	9,787.1	-2,264.1	-227.8	2,268.5	0.00	0.00	0.00
12,400.0	89.97	180.47	9,787.2	-2,364.1	-228.6	2,368.5	0.00	0.00	0.00
12,500.0	89.97	180.47	9,787.2	-2,464.1	-229.4	2,468.5	0.00	0.00	0.00
12,600.0	89.97	180.47	9,787.3	-2,564.1	-230.3	2,568.5	0.00	0.00	0.00
12,700.0	89.97	180.47	9,787.3	-2,664.1	-231.1	2,668.5	0.00	0.00	0.00
12,800.0	89.97	180.47	9,787.4	-2,764.1	-231.9	2,768.5	0.00	0.00	0.00
12,900.0	89.97	180.47	9,787.4	-2,864.0	-232.7	2,868.5	0.00	0.00	0.00
13,000.0	89.97	180.47	9,787.5	-2,964.0	-233.6	2,968.4	0.00	0.00	0.00
13,100.0	89.97	180.47	9,787.5	-3,064.0	-234.4	3,068.4	0.00	0.00	0.00
13,200.0	89.97	180.47	9,787.6	-3,164.0	-235.2	3,168.4	0.00	0.00	0.00
13,300.0	89.97	180.47	9,787.6	-3,264.0	-236.1	3,268.4	0.00	0.00	0.00
13,400.0	89.97	180.47	9,787.7	-3,364.0	-236.9	3,368.4	0.00	0.00	0.00
13,500.0	89.97	180.47	9,787.8	-3,464.0	-237.7	3,468.4	0.00	0.00	0.00
13,600.0	89.97	180.47	9,787.8	-3,564.0	-238.5	3,568.4	0.00	0.00	0.00
13,700.0	89.97	180.47	9,787.9	-3,664.0	-239.4	3,668.4	0.00	0.00	0.00
13,800.0	89.97	180.47	9,787.9	-3,764.0	-240.2	3,768.4	0.00	0.00	0.00
13,900.0	89.97	180.47	9,788.0	-3,864.0	-241.0	3,868.4	0.00	0.00	0.00
14,000.0	89.97	180.47	9,788.0	-3,964.0	-241.8	3,968.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.0	89.97	180.47	9,788.1	-4,064.0	-242.7	4,068.3	0.00	0.00	0.00
14,200.0	89.97	180.47	9,788.1	-4,164.0	-243.5	4,168.3	0.00	0.00	0.00
14,300.0	89.97	180.47	9,788.2	-4,264.0	-244.3	4,268.3	0.00	0.00	0.00
14,400.0	89.97	180.47	9,788.2	-4,364.0	-245.2	4,368.3	0.00	0.00	0.00
14,500.0	89.97	180.47	9,788.3	-4,464.0	-246.0	4,468.3	0.00	0.00	0.00
14,600.0	89.97	180.47	9,788.3	-4,564.0	-246.8	4,568.3	0.00	0.00	0.00
14,700.0	89.97	180.47	9,788.4	-4,664.0	-247.6	4,668.3	0.00	0.00	0.00
14,800.0	89.97	180.47	9,788.4	-4,764.0	-248.5	4,768.3	0.00	0.00	0.00
14,900.0	89.97	180.47	9,788.5	-4,864.0	-249.3	4,868.3	0.00	0.00	0.00
15,000.0	89.97	180.47	9,788.5	-4,964.0	-250.1	4,968.3	0.00	0.00	0.00
15,100.0	89.97	180.47	9,788.6	-5,064.0	-251.0	5,068.2	0.00	0.00	0.00
15,200.0	89.97	180.47	9,788.6	-5,164.0	-251.8	5,168.2	0.00	0.00	0.00
15,300.0	89.97	180.47	9,788.7	-5,264.0	-252.6	5,268.2	0.00	0.00	0.00
15,400.0	89.97	180.47	9,788.7	-5,364.0	-253.4	5,368.2	0.00	0.00	0.00
15,500.0	89.97	180.47	9,788.8	-5,464.0	-254.3	5,468.2	0.00	0.00	0.00
15,600.0	89.97	180.47	9,788.9	-5,564.0	-255.1	5,568.2	0.00	0.00	0.00
15,700.0	89.97	180.47	9,788.9	-5,664.0	-255.9	5,668.2	0.00	0.00	0.00
15,800.0	89.97	180.47	9,789.0	-5,763.9	-256.7	5,768.2	0.00	0.00	0.00
15,900.0	89.97	180.47	9,789.0	-5,863.9	-257.6	5,868.2	0.00	0.00	0.00
16,000.0	89.97	180.47	9,789.1	-5,963.9	-258.4	5,968.2	0.00	0.00	0.00
16,100.0	89.97	180.47	9,789.1	-6,063.9	-259.2	6,068.2	0.00	0.00	0.00
16,200.0	89.97	180.47	9,789.2	-6,163.9	-260.1	6,168.1	0.00	0.00	0.00
16,300.0	89.97	180.47	9,789.2	-6,263.9	-260.9	6,268.1	0.00	0.00	0.00
16,400.0	89.97	180.47	9,789.3	-6,363.9	-261.7	6,368.1	0.00	0.00	0.00
16,500.0	89.97	180.47	9,789.3	-6,463.9	-262.5	6,468.1	0.00	0.00	0.00
16,600.0	89.97	180.47	9,789.4	-6,563.9	-263.4	6,568.1	0.00	0.00	0.00
16,700.0	89.97	180.47	9,789.4	-6,663.9	-264.2	6,668.1	0.00	0.00	0.00
16,800.0	89.97	180.47	9,789.5	-6,763.9	-265.0	6,768.1	0.00	0.00	0.00
16,900.0	89.97	180.47	9,789.5	-6,863.9	-265.9	6,868.1	0.00	0.00	0.00
17,000.0	89.97	180.47	9,789.6	-6,963.9	-266.7	6,968.1	0.00	0.00	0.00
17,100.0	89.97	180.47	9,789.6	-7,063.9	-267.5	7,068.1	0.00	0.00	0.00
17,200.0	89.97	180.47	9,789.7	-7,163.9	-268.3	7,168.1	0.00	0.00	0.00
17,300.0	89.97	180.47	9,789.7	-7,263.9	-269.2	7,268.0	0.00	0.00	0.00
17,400.0	89.97	180.47	9,789.8	-7,363.9	-270.0	7,368.0	0.00	0.00	0.00
17,500.0	89.97	180.47	9,789.9	-7,463.9	-270.8	7,468.0	0.00	0.00	0.00
17,600.0	89.97	180.47	9,789.9	-7,563.9	-271.6	7,568.0	0.00	0.00	0.00
17,700.0	89.97	180.47	9,790.0	-7,663.9	-272.5	7,668.0	0.00	0.00	0.00
17,800.0	89.97	180.47	9,790.0	-7,763.9	-273.3	7,768.0	0.00	0.00	0.00
17,900.0	89.97	180.47	9,790.1	-7,863.9	-274.1	7,868.0	0.00	0.00	0.00
18,000.0	89.97	180.47	9,790.1	-7,963.9	-275.0	7,968.0	0.00	0.00	0.00
18,100.0	89.97	180.47	9,790.2	-8,063.9	-275.8	8,068.0	0.00	0.00	0.00
18,200.0	89.97	180.47	9,790.2	-8,163.9	-276.6	8,168.0	0.00	0.00	0.00
18,300.0	89.97	180.47	9,790.3	-8,263.9	-277.4	8,268.0	0.00	0.00	0.00
18,400.0	89.97	180.47	9,790.3	-8,363.9	-278.3	8,367.9	0.00	0.00	0.00
18,500.0	89.97	180.47	9,790.4	-8,463.9	-279.1	8,467.9	0.00	0.00	0.00
18,600.0	89.97	180.47	9,790.4	-8,563.9	-279.9	8,567.9	0.00	0.00	0.00
18,700.0	89.97	180.47	9,790.5	-8,663.8	-280.8	8,667.9	0.00	0.00	0.00
18,800.0	89.97	180.47	9,790.5	-8,763.8	-281.6	8,767.9	0.00	0.00	0.00
18,900.0	89.97	180.47	9,790.6	-8,863.8	-282.4	8,867.9	0.00	0.00	0.00
19,000.0	89.97	180.47	9,790.6	-8,963.8	-283.2	8,967.9	0.00	0.00	0.00
19,100.0	89.97	180.47	9,790.7	-9,063.8	-284.1	9,067.9	0.00	0.00	0.00
19,200.0	89.97	180.47	9,790.7	-9,163.8	-284.9	9,167.9	0.00	0.00	0.00
19,300.0	89.97	180.47	9,790.8	-9,263.8	-285.7	9,267.9	0.00	0.00	0.00
19,400.0	89.97	180.47	9,790.8	-9,363.8	-286.5	9,367.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,500.0	89.97	180.47	9,790.9	-9,463.8	-287.4	9,467.8	0.00	0.00	0.00
19,600.0	89.97	180.47	9,791.0	-9,563.8	-288.2	9,567.8	0.00	0.00	0.00
19,700.0	89.97	180.47	9,791.0	-9,663.8	-289.0	9,667.8	0.00	0.00	0.00
19,800.0	89.97	180.47	9,791.1	-9,763.8	-289.9	9,767.8	0.00	0.00	0.00
19,900.0	89.97	180.47	9,791.1	-9,863.8	-290.7	9,867.8	0.00	0.00	0.00
20,000.0	89.97	180.47	9,791.2	-9,963.8	-291.5	9,967.8	0.00	0.00	0.00
20,100.0	89.97	180.47	9,791.2	-10,063.8	-292.3	10,067.8	0.00	0.00	0.00
20,200.0	89.97	180.47	9,791.3	-10,163.8	-293.2	10,167.8	0.00	0.00	0.00
20,300.0	89.97	180.47	9,791.3	-10,263.8	-294.0	10,267.8	0.00	0.00	0.00
20,400.0	89.97	180.47	9,791.4	-10,363.8	-294.8	10,367.8	0.00	0.00	0.00
20,500.0	89.97	180.47	9,791.4	-10,463.8	-295.7	10,467.7	0.00	0.00	0.00
20,600.0	89.97	180.47	9,791.5	-10,563.8	-296.5	10,567.7	0.00	0.00	0.00
20,700.0	89.97	180.47	9,791.5	-10,663.8	-297.3	10,667.7	0.00	0.00	0.00
20,800.0	89.97	180.47	9,791.6	-10,763.8	-298.1	10,767.7	0.00	0.00	0.00
20,900.0	89.97	180.47	9,791.6	-10,863.8	-299.0	10,867.7	0.00	0.00	0.00
21,000.0	89.97	180.47	9,791.7	-10,963.8	-299.8	10,967.7	0.00	0.00	0.00
21,100.0	89.97	180.47	9,791.7	-11,063.8	-300.6	11,067.7	0.00	0.00	0.00
21,200.0	89.97	180.47	9,791.8	-11,163.8	-301.4	11,167.7	0.00	0.00	0.00
21,300.0	89.97	180.47	9,791.8	-11,263.8	-302.3	11,267.7	0.00	0.00	0.00
21,400.0	89.97	180.47	9,791.9	-11,363.8	-303.1	11,367.7	0.00	0.00	0.00
21,500.0	89.97	180.47	9,791.9	-11,463.8	-303.9	11,467.7	0.00	0.00	0.00
21,600.0	89.97	180.47	9,792.0	-11,563.7	-304.8	11,567.6	0.00	0.00	0.00
21,700.0	89.97	180.47	9,792.1	-11,663.7	-305.6	11,667.6	0.00	0.00	0.00
21,800.0	89.97	180.47	9,792.1	-11,763.7	-306.4	11,767.6	0.00	0.00	0.00
21,900.0	89.97	180.47	9,792.2	-11,863.7	-307.2	11,867.6	0.00	0.00	0.00
22,000.0	89.97	180.47	9,792.2	-11,963.7	-308.1	11,967.6	0.00	0.00	0.00
22,100.0	89.97	180.47	9,792.3	-12,063.7	-308.9	12,067.6	0.00	0.00	0.00
22,200.0	89.97	180.47	9,792.3	-12,163.7	-309.7	12,167.6	0.00	0.00	0.00
22,300.0	89.97	180.47	9,792.4	-12,263.7	-310.5	12,267.6	0.00	0.00	0.00
22,400.0	89.97	180.47	9,792.4	-12,363.7	-311.4	12,367.6	0.00	0.00	0.00
22,500.0	89.97	180.47	9,792.5	-12,463.7	-312.2	12,467.6	0.00	0.00	0.00
22,600.0	89.97	180.47	9,792.5	-12,563.7	-313.0	12,567.6	0.00	0.00	0.00
22,700.0	89.97	180.47	9,792.6	-12,663.7	-313.9	12,667.5	0.00	0.00	0.00
22,800.0	89.97	180.47	9,792.6	-12,763.7	-314.7	12,767.5	0.00	0.00	0.00
22,900.0	89.97	180.47	9,792.7	-12,863.7	-315.5	12,867.5	0.00	0.00	0.00
23,000.0	89.97	180.47	9,792.7	-12,963.7	-316.3	12,967.5	0.00	0.00	0.00
23,100.0	89.97	180.47	9,792.8	-13,063.7	-317.2	13,067.5	0.00	0.00	0.00
23,200.0	89.97	180.47	9,792.8	-13,163.7	-318.0	13,167.5	0.00	0.00	0.00
23,300.0	89.97	180.47	9,792.9	-13,263.7	-318.8	13,267.5	0.00	0.00	0.00
23,400.0	89.97	180.47	9,792.9	-13,363.7	-319.7	13,367.5	0.00	0.00	0.00
23,500.0	89.97	180.47	9,793.0	-13,463.7	-320.5	13,467.5	0.00	0.00	0.00
23,600.0	89.97	180.47	9,793.0	-13,563.7	-321.3	13,567.5	0.00	0.00	0.00
23,700.0	89.97	180.47	9,793.1	-13,663.7	-322.1	13,667.5	0.00	0.00	0.00
23,800.0	89.97	180.47	9,793.2	-13,763.7	-323.0	13,767.4	0.00	0.00	0.00
23,900.0	89.97	180.47	9,793.2	-13,863.7	-323.8	13,867.4	0.00	0.00	0.00
24,000.0	89.97	180.47	9,793.3	-13,963.7	-324.6	13,967.4	0.00	0.00	0.00
24,100.0	89.97	180.47	9,793.3	-14,063.7	-325.4	14,067.4	0.00	0.00	0.00
24,200.0	89.97	180.47	9,793.4	-14,163.7	-326.3	14,167.4	0.00	0.00	0.00
24,300.0	89.97	180.47	9,793.4	-14,263.7	-327.1	14,267.4	0.00	0.00	0.00
24,400.0	89.97	180.47	9,793.5	-14,363.7	-327.9	14,367.4	0.00	0.00	0.00
24,500.0	89.97	180.47	9,793.5	-14,463.6	-328.8	14,467.4	0.00	0.00	0.00
24,600.0	89.97	180.47	9,793.6	-14,563.6	-329.6	14,567.4	0.00	0.00	0.00
24,700.0	89.97	180.47	9,793.6	-14,663.6	-330.4	14,667.4	0.00	0.00	0.00
24,800.0	89.97	180.47	9,793.7	-14,763.6	-331.2	14,767.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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)	
24,900.0	89.97	180.47	9,793.7	-14,863.6	-332.1	14,867.3	0.00	0.00	0.00	
25,000.0	89.97	180.47	9,793.8	-14,963.6	-332.9	14,967.3	0.00	0.00	0.00	
25,100.0	89.97	180.47	9,793.8	-15,063.6	-333.7	15,067.3	0.00	0.00	0.00	
25,200.0	89.97	180.47	9,793.9	-15,163.6	-334.6	15,167.3	0.00	0.00	0.00	
25,278.2	89.97	180.47	9,793.9	-15,241.8	-335.2	15,245.5	0.00	0.00	0.00	
Start 130.1 hold at 25278.2 MD										
25,300.0	89.97	180.47	9,793.9	-15,263.6	-335.4	15,267.3	0.00	0.00	0.00	
25,408.3	89.97	180.47	9,794.0	-15,371.9	-336.3	15,375.6	0.00	0.00	0.00	
TD at 25408.3										

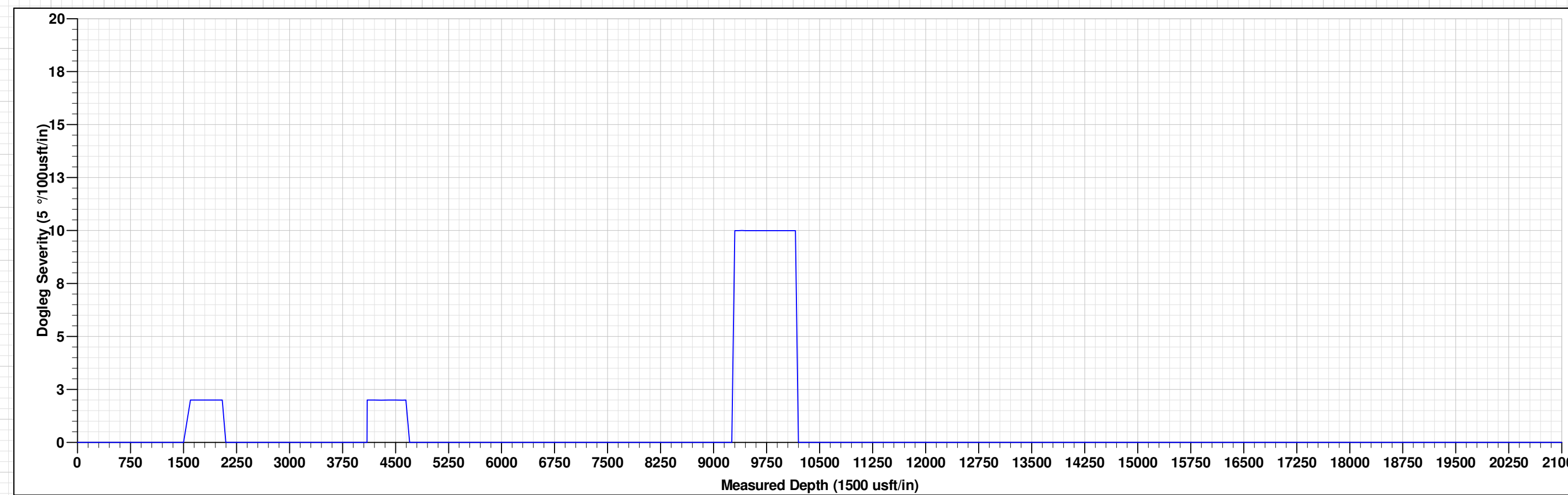
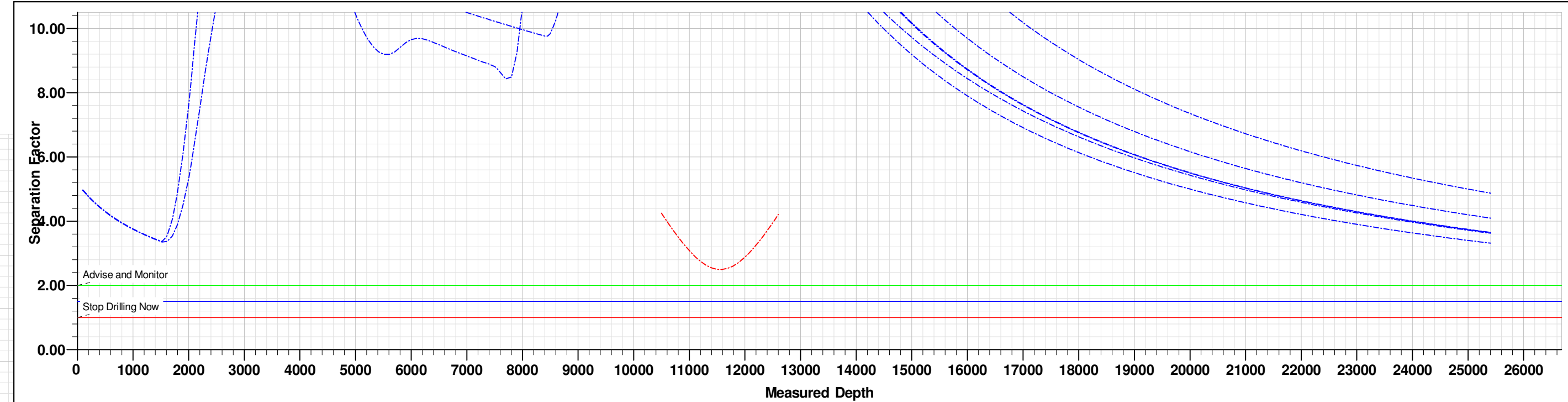
Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
VT (FLAMING SNAIL FE - plan hits target center - Circle (radius 25.0))	0.00	0.00	9,213.0	451.4	-205.3	403,075.10	544,417.10	32° 6' 29.118 N	104° 11' 23.573 W	
FTP (FLAMING SNAIL F - plan misses target center by 70.6usft at 9888.0usft MD (9723.8 TVD, 138.0 N, -207.9 E) - Circle (radius 50.0))	0.00	0.00	9,786.0	171.4	-207.8	402,795.10	544,414.60	32° 6' 26.347 N	104° 11' 23.607 W	
LTP (FLAMING SNAIL F - plan hits target center - Point)	0.00	0.00	9,793.9	-15,241.8	-335.2	387,381.90	544,287.20	32° 3' 53.811 N	104° 11' 25.325 W	
PBHL (FLAMING SNAIL - plan misses target center by 0.1usft at 25408.3usft MD (9794.0 TVD, -15371.9 N, -336.3 E) - Rectangle (sides W100.0 H15,543.8 D20.0))	0.03	0.47	9,794.0	-15,371.9	-336.2	387,251.80	544,286.20	32° 3' 52.524 N	104° 11' 25.339 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	
2,050.0	2,046.6	47.9	-21.8	Start 2047.4 hold at 2050.0 MD	
4,097.4	4,056.4	403.5	-183.5	Start Drop -2.00	
4,647.4	4,603.0	451.4	-205.3	Start 4610.0 hold at 4647.4 MD	
9,257.4	9,213.0	451.4	-205.3	Start DLS 10.00 TFO 180.47	
10,157.1	9,786.0	-121.2	-210.0	Start 15121.1 hold at 10157.1 MD	
25,278.2	9,793.9	-15,241.8	-335.2	Start 130.1 hold at 25278.2 MD	
25,408.3	9,794.0	-15,371.9	-336.3	TD at 25408.3	

WELL DETAILS: FLAMING SNAIL FEDERAL COM #802H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402623.70	544622.40	32° 6' 24.648 N	104° 11' 21.193 W

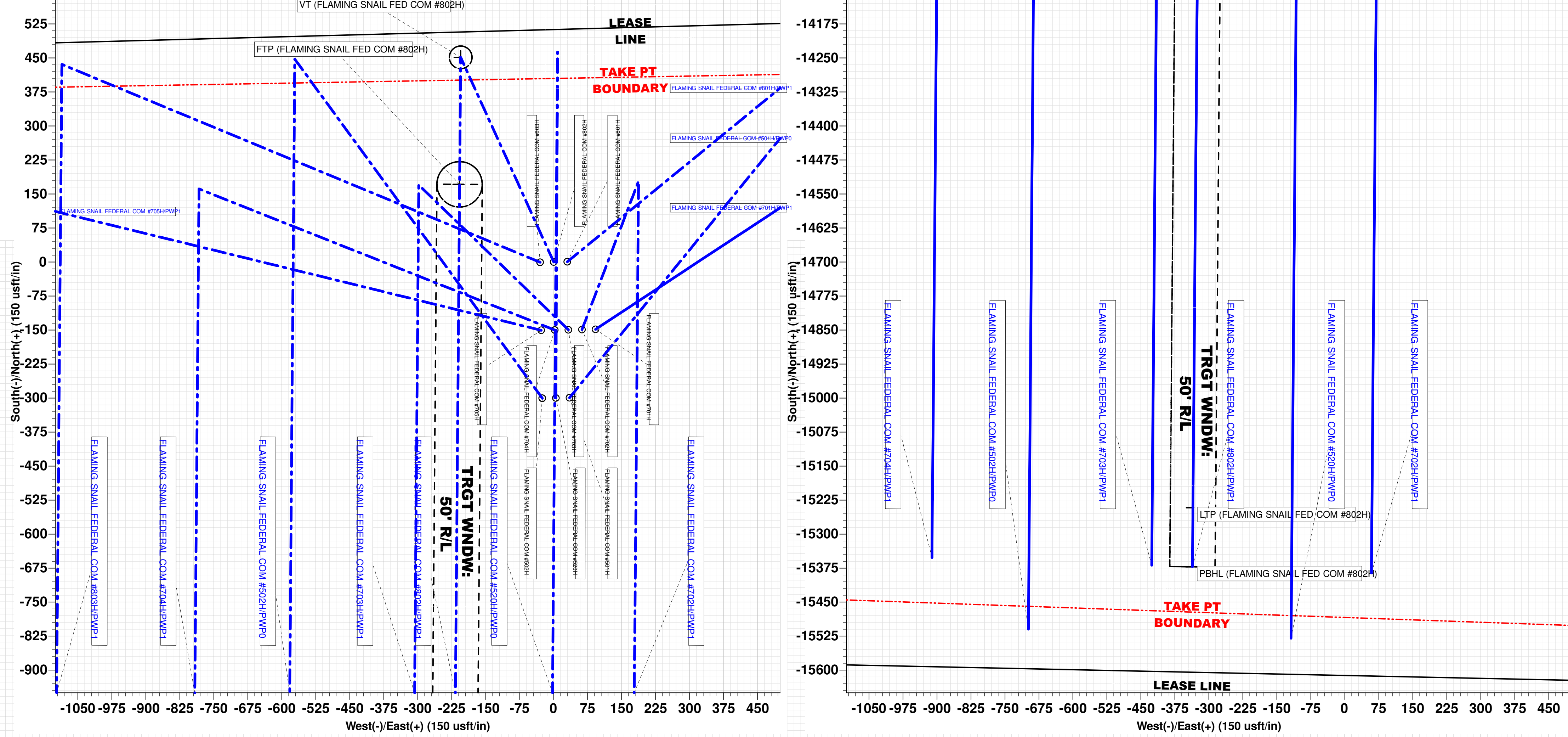
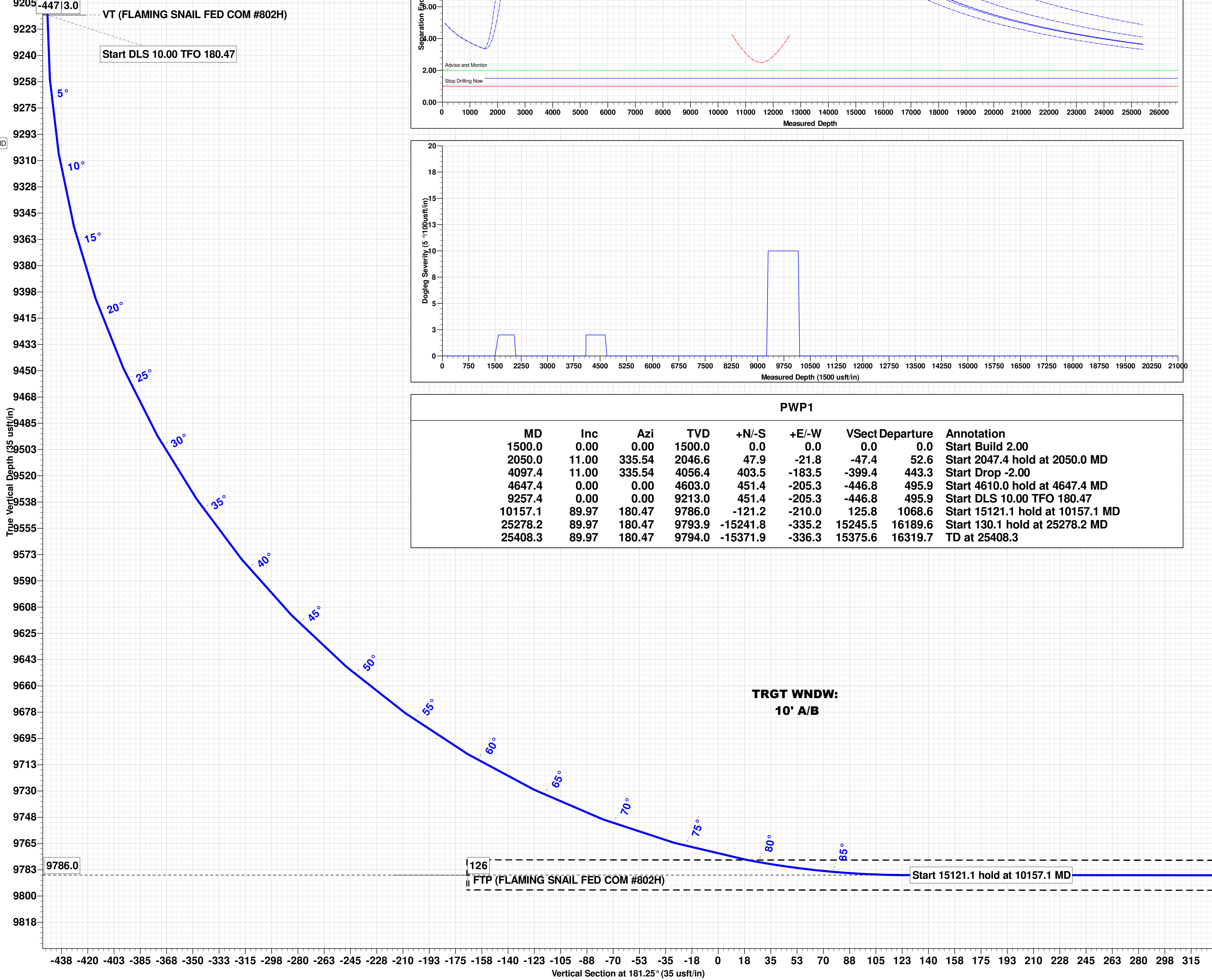
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
VT (FLAMING SNAIL FED COM #802H)	9213.0	451.4	-205.3	403075.10	544417.10	Circle (Radius: 25.0)
FTP (FLAMING SNAIL FED COM #802H)	9786.0	171.4	-207.8	402795.10	544414.60	Circle (Radius: 50.0)
LTP (FLAMING SNAIL FED COM #802H)	9793.9	-15241.8	-335.2	387381.90	544287.20	Point
PBHL (FLAMING SNAIL FED COM #802H)	9794.0	-15371.9	-336.2	387251.80	544286.20	Rectangle (Sides: L15543.8 W100.0)

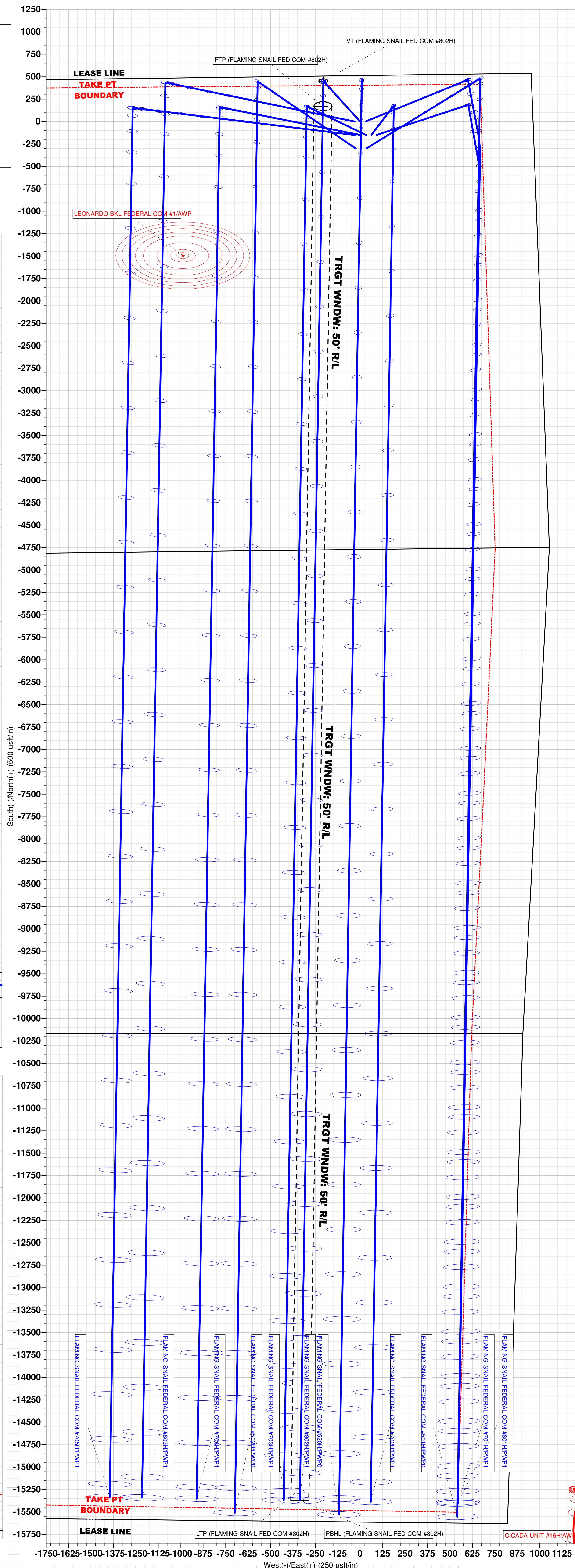
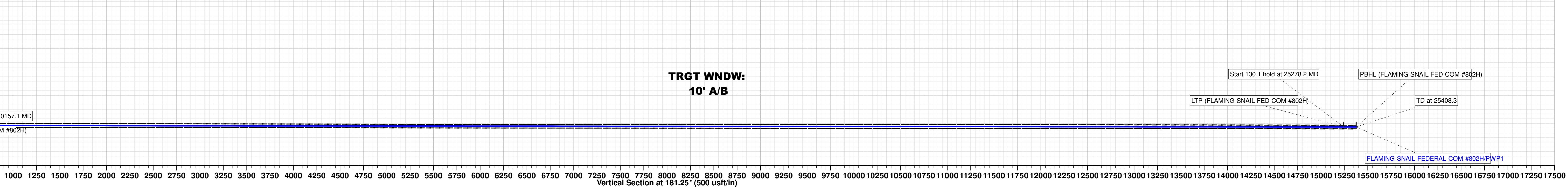


MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00
2050.0	11.00	335.54	2046.6	47.9	-21.8	-47.4	52.6	Start 2047.4 hold at 2050.0 MD
4097.4	11.00	335.54	4056.4	403.5	-183.5	-399.4	443.3	Start Drop -2.00
4647.4	0.00	0.00	4603.0	451.4	-205.3	-446.8	495.9	Start 4610.0 hold at 4647.4 MD
9257.4	0.00	0.00	9213.0	451.4	-205.3	-446.8	495.9	Start DLS 10.00 TFO 180.47
10157.1	89.97	180.47	9786.0	-121.2	-210.0	125.8	1068.6	Start 15121.1 hold at 10157.1 MD
25278.2	69.97	180.47	9793.9	-15241.8	-335.2	15245.5	16189.6	Start 130.1 hold at 25278.2 MD
25408.3	69.97	180.47	9794.0	-15371.9	-336.3	15375.6	16319.7	TD at 25408.3

TRGT WNDW:
10' A/B



TRGT WNDW:
10' A/B



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM92167
LOCATION:	Section 28, T.25 S, R.27 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Flaming Snail Fed Com 802H
SURFACE HOLE FOOTAGE:	505'/N & 1005'/E
BOTTOM HOLE FOOTAGE:	200'/S & 1210'/E

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 **540** 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 may be 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 260974

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	260974
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

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 802H 9. API Well No.
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 NENE / 505 FNL / 1005 FEL / LAT 32.106968 / LONG -104.189714 At proposed prod. zone SESE / 200 FSL / 1210 FEL / LAT 32.064712 / LONG -104.190865		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 10 miles	15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet	16. No of acres in lease 1920.0
17. Spacing Unit dedicated to this well 1920.0	18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 90 feet	19. Proposed Depth 9794 feet / 25408 feet
20. BLM/BIA Bond No. in file FED: NMB000215	21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3124 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 10/04/2022
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: NENE / 505 FNL / 1005 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106968 / LONG: -104.189714 (TVD: 0 feet, MD: 0 feet)
PPP: NENE / 330 FNL / 1210 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.10744 / LONG: -104.190385 (TVD: 9723 feet, MD: 9888 feet)
PPP: SESE / 1319 FSL / 1210 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097445 / LONG: -104.190497 (TVD: 9787 feet, MD: 13749 feet)
PPP: SENE / 1321 FNL / 1210 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.090106 / LONG: -104.19058 (TVD: 9789 feet, MD: 16389 feet)
PPP: NENE / 1 FNL / 1210 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079003 / LONG: -104.190705 (TVD: 9791 feet, MD: 20349 feet)
BHL: SESE / 200 FSL / 1210 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064712 / LONG: -104.190865 (TVD: 9794 feet, MD: 25408 feet)

BLM Point of Contact

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

CONFIDENTIAL

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

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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code	Property Name FLAMING SNAIL FEDERAL COM	Well Number 802H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3124.7'

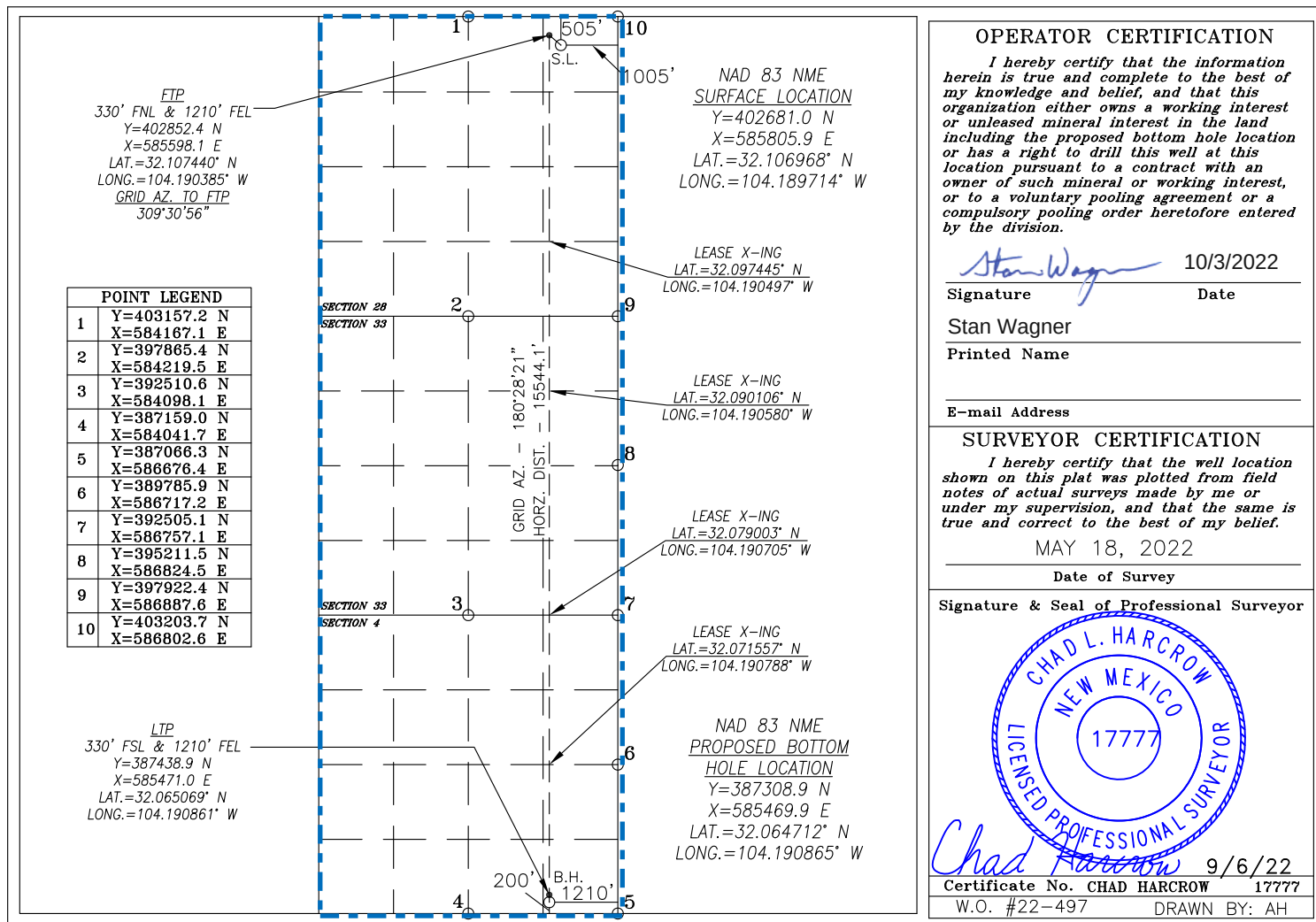
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	25-S	27-E		505	NORTH	1005	EAST	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
P	4	26-S	27-E		200	SOUTH	1210	EAST	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

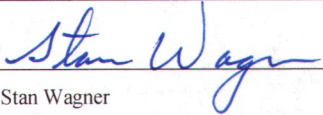
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 802H

1. Geologic Formations

TVD of target	9,794' EOL	Pilot hole depth	NA
MD at TD:	25,408'	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	527	Salt	
Base of Salt	1938	Salt	
Lamar	2169	Salt Water	
Bell Canyon	2218	Salt Water	
Cherry Canyon	3022	Oil/Gas	
Brushy Canyon	4127	Oil/Gas	
Bone Spring Lime	5711	Oil/Gas	
1st Bone Spring Sand	6649	Oil/Gas	
2nd Bone Spring Sand	7156	Oil/Gas	
3rd Bone Spring Sand	8480	Oil/Gas	
Wolfcamp	8811	Oil/Gas	
Wolfcamp C	9646	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	25,408	5.5"	23	P110	W441	2.28	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.

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	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?	

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3. Cementing Program

Casing	# Sks	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
	1585	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 802H

4. Pressure Control Equipment

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

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
9-7/8"	13-5/8"	3M	Annular	x	2500psi
			Blind Ram		3000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	5M	5M Annular	x	2500psi
			Blind Ram		5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

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

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

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

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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	

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7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6370 psi at 9794' 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

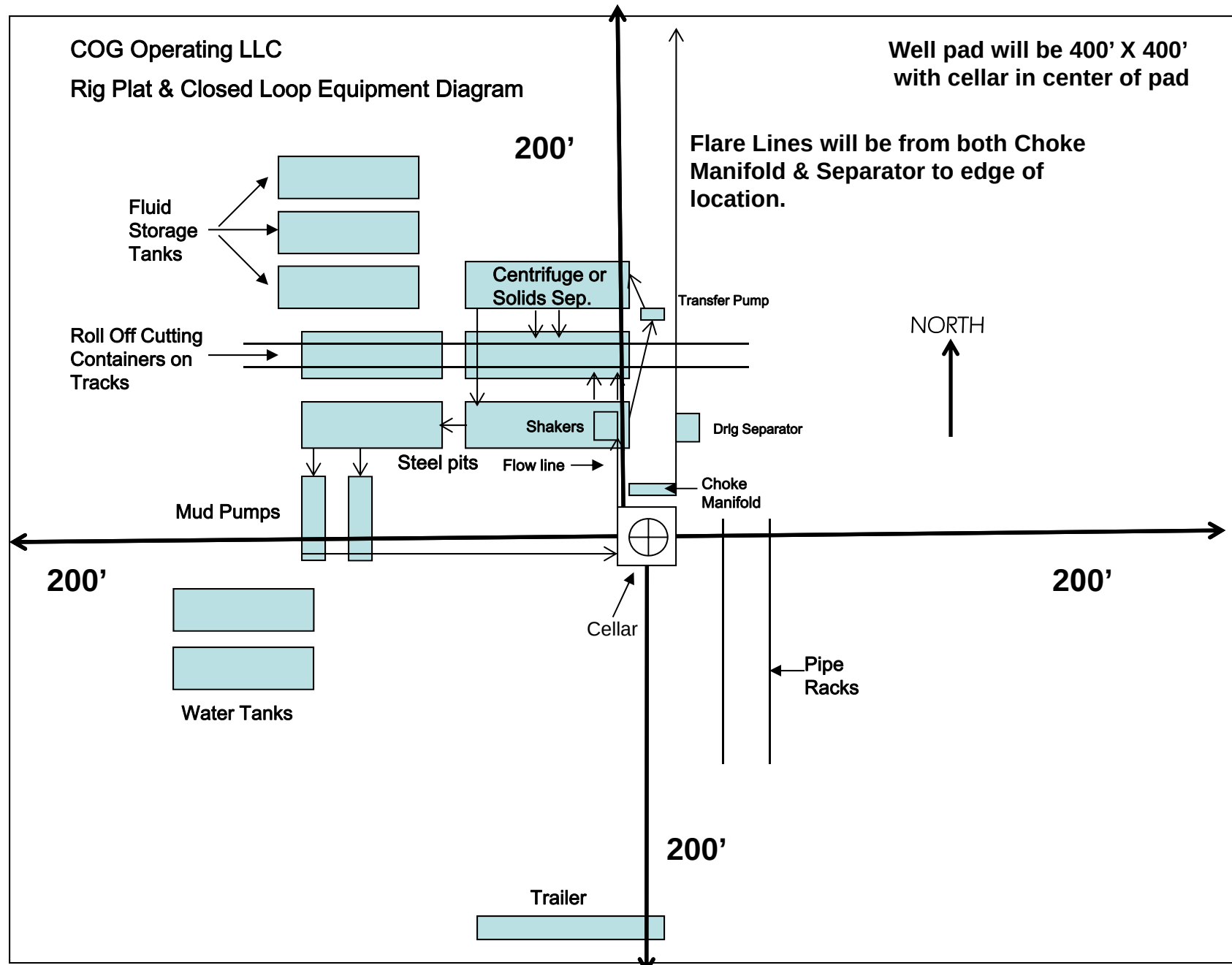


Exhibit 1

"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 #802H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	9,257.4	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
9,257.4	25,408.3	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						
CICADA UNIT #14H - OWB - AWP						Out of range
CICADA UNIT #15H - OWB - AWP						Out of range
CICADA UNIT #16H - OWB - AWP						Out of range
CICADA UNIT #17H - OWB - AWP						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	1,500.0	1,504.2	301.4	293.2	36.484	CC, ES
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	7,100.0	7,179.6	874.1	843.3	28.380	SF
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	5,162.4	5,209.8	298.0	278.3	15.181	CC, ES
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	7,030.0	7,100.5	366.1	337.4	12.747	SF
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	7,548.2	7,582.2	213.7	189.3	8.742	CC, ES
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	7,700.0	7,719.9	219.5	193.5	8.427	SF
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,500.1	1,504.7	174.8	165.5	18.810	CC, ES
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	25,408.3	24,382.6	1,189.6	945.3	4.871	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,513.9	1,519.1	161.4	152.0	17.146	CC
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,520.0	1,525.5	161.4	152.0	17.108	ES
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	25,408.3	24,310.6	900.7	654.0	3.650	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,537.3	1,543.8	152.9	143.4	16.009	CC
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,700.0	1,714.0	153.5	143.2	14.913	ES
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	25,408.3	24,298.5	822.5	574.4	3.315	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,503.4	1,508.2	150.0	140.6	15.865	CC
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,520.0	1,525.1	150.0	140.5	15.786	ES
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	25,408.3	24,323.6	1,006.1	760.4	4.095	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,500.3	1,504.9	153.0	143.6	16.228	CC
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,520.0	1,524.6	153.1	143.6	16.140	ES
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,710.0	1,714.9	158.9	148.8	15.729	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1						Out of range

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 #710H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,437.3	1,437.9	30.0	21.2	3.421	CC
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,500.0	1,500.6	30.0	21.1	3.379	ES
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,520.0	1,520.4	30.1	21.2	3.370	SF
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,500.0	1,500.0	29.9	21.0	3.368	CC
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,520.0	1,519.8	29.9	21.0	3.351	ES, SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1						Out of range
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	11,536.5	9,766.3	767.1	459.7	2.496	CC, ES, SF
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW						Out of range

ConocoPhillips

Anticollision Report

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Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #14H - OWB - AWP	25,408.3	9,746.2				Out of Range @TD
CICADA UNIT #15H - OWB - AWP	25,408.3	9,711.0				Out of Range @TD
CICADA UNIT #16H - OWB - AWP	25,408.3	9,909.0				Out of Range @TD
CICADA UNIT #17H - OWB - AWP	25,408.3	9,372.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	25,408.3	23,304.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	25,408.3	23,232.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	25,408.3	23,200.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	25,408.3	23,122.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	25,408.3	23,624.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	25,408.3	23,511.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	25,408.3	24,382.6	1,189.6	945.3	4.871	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	25,408.3	24,310.6	900.7	654.0	3.650	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	25,408.3	24,298.5	822.5	574.4	3.315	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	25,408.3	24,323.6	1,006.1	760.4	4.095	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	25,408.3	24,345.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	25,408.3	24,278.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	25,408.3	24,197.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	25,408.3	24,170.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	25,408.3	24,202.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	25,408.3	24,229.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	25,408.3	25,491.7	880.0	638.5	3.644	
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	25,408.3	25,430.7	880.3	637.6	3.627	
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	25,408.3	25,359.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	25,408.3	25,284.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	25,408.3	25,330.7				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	25,408.3	9,773.6				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	25,408.3	7,086.0				Out of Range @TD

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0										
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS										
Rule Assigned:										
Reference	Vertical	Measured	Vertical	Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Minimum
Depth	Depth	Depth	Depth	Depth	Depth	Depth	Toolface	+N/-S	+E/-W	Separation
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Factor
0.0	0.0	4.2	4.2	3.0	3.0	173.37	-299.4	34.8	301.4	
95.0	95.0	99.2	99.2	3.0	3.0	173.37	-299.4	34.8	301.4	295.4
100.0	100.0	104.2	104.2	3.0	3.0	173.37	-299.4	34.8	301.4	295.4
190.0	190.0	194.2	194.2	3.1	3.0	173.37	-299.4	34.8	301.4	295.3

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
200.0	200.0	204.2	204.2	3.1	3.0	173.37	-299.4	34.8	301.4	295.3	6.15	48.993		
285.0	285.0	289.2	289.2	3.3	3.0	173.37	-299.4	34.8	301.4	295.2	6.27	48.111		
300.0	300.0	304.2	304.2	3.3	3.0	173.37	-299.4	34.8	301.4	295.1	6.29	47.936		
380.0	380.0	384.2	384.2	3.4	3.0	173.37	-299.4	34.8	301.4	295.0	6.40	47.109		
400.0	400.0	404.2	404.2	3.4	3.0	173.37	-299.4	34.8	301.4	295.0	6.43	46.889		
475.0	475.0	479.2	479.2	3.5	3.0	173.37	-299.4	34.8	301.4	294.9	6.54	46.121		
500.0	500.0	504.2	504.2	3.5	3.1	173.37	-299.4	34.8	301.4	294.8	6.57	45.854		
570.0	570.0	574.2	574.2	3.6	3.1	173.37	-299.4	34.8	301.4	294.7	6.68	45.145		
600.0	600.0	604.2	604.2	3.6	3.1	173.37	-299.4	34.8	301.4	294.7	6.72	44.832		
665.0	665.0	669.2	669.2	3.7	3.1	173.37	-299.4	34.8	301.4	294.6	6.82	44.183		
700.0	700.0	704.2	704.2	3.8	3.1	173.37	-299.4	34.8	301.4	294.5	6.88	43.826		
760.0	760.0	764.2	764.2	3.8	3.1	173.37	-299.4	34.8	301.4	294.4	6.97	43.236		
800.0	800.0	804.2	804.2	3.9	3.2	173.37	-299.4	34.8	301.4	294.4	7.04	42.837		
855.0	855.0	859.2	859.2	4.0	3.2	173.37	-299.4	34.8	301.4	294.3	7.12	42.305		
900.0	900.0	904.2	904.2	4.0	3.2	173.37	-299.4	34.8	301.4	294.2	7.20	41.866		
950.0	950.0	954.2	954.2	4.1	3.2	173.37	-299.4	34.8	301.4	294.1	7.28	41.391		
1,000.0	1,000.0	1,004.2	1,004.2	4.1	3.2	173.37	-299.4	34.8	301.4	294.0	7.37	40.914		
1,045.0	1,045.0	1,049.2	1,049.2	4.2	3.3	173.37	-299.4	34.8	301.4	294.0	7.44	40.495		
1,100.0	1,100.0	1,104.2	1,104.2	4.2	3.3	173.37	-299.4	34.8	301.4	293.9	7.54	39.983		
1,140.0	1,140.0	1,144.2	1,144.2	4.3	3.3	173.37	-299.4	34.8	301.4	293.8	7.61	39.619		
1,200.0	1,200.0	1,204.2	1,204.2	4.4	3.4	173.37	-299.4	34.8	301.4	293.7	7.71	39.074		
1,235.0	1,235.0	1,239.2	1,239.2	4.4	3.4	173.37	-299.4	34.8	301.4	293.6	7.78	38.763		
1,300.0	1,300.0	1,304.2	1,304.2	4.5	3.4	173.37	-299.4	34.8	301.4	293.5	7.89	38.188		
1,330.0	1,330.0	1,334.2	1,334.2	4.5	3.4	173.37	-299.4	34.8	301.4	293.5	7.95	37.928		
1,400.0	1,400.0	1,404.2	1,404.2	4.6	3.5	173.37	-299.4	34.8	301.4	293.3	8.08	37.324		
1,425.0	1,425.0	1,429.2	1,429.2	4.6	3.5	173.37	-299.4	34.8	301.4	293.3	8.12	37.113		
1,500.0	1,500.0	1,504.2	1,504.2	4.7	3.5	173.37	-299.4	34.8	301.4	293.2	8.26	36.484	CC, ES	
1,520.0	1,520.0	1,524.2	1,524.2	4.8	3.6	-162.18	-299.4	34.8	301.5	293.2	8.31	36.270		
1,600.0	1,600.0	1,604.2	1,604.2	4.9	3.6	-162.26	-299.4	34.8	303.1	294.6	8.52	35.554		
1,615.0	1,615.0	1,619.2	1,619.2	4.9	3.6	-162.29	-299.4	34.8	303.6	295.0	8.57	35.414		
1,700.0	1,699.8	1,704.0	1,704.0	5.2	3.7	-162.53	-299.4	34.8	308.1	299.2	8.85	34.792		
1,710.0	1,709.8	1,714.0	1,714.0	5.2	3.7	-162.57	-299.4	34.8	308.7	299.9	8.89	34.735		
1,800.0	1,799.5	1,803.7	1,803.7	5.4	3.8	-162.96	-299.4	34.8	316.4	307.2	9.20	34.385		
1,805.0	1,804.4	1,808.6	1,808.6	5.5	3.8	-162.98	-299.4	34.8	316.9	307.7	9.22	34.372		
1,900.0	1,898.7	1,902.9	1,902.9	5.7	3.9	-163.51	-299.4	34.8	328.1	318.5	9.57	34.284		
1,995.0	1,992.5	1,996.7	1,996.7	6.0	3.9	-164.14	-299.4	34.8	342.3	332.3	9.94	34.437		
2,000.0	1,997.5	2,001.8	2,001.8	6.1	3.9	-164.17	-299.4	34.8	343.1	333.1	9.96	34.445		
2,050.0	2,046.6	2,055.3	2,055.3	6.2	4.0	-164.63	-299.0	35.1	351.6	341.4	10.16	34.612		
2,090.0	2,085.9	2,098.2	2,098.2	6.2	4.1	-165.12	-298.1	35.9	358.2	347.9	10.31	34.754		
2,100.0	2,095.7	2,108.9	2,108.9	6.3	4.2	-165.25	-297.8	36.1	359.9	349.5	10.35	34.765		
2,185.0	2,179.1	2,200.2	2,200.0	6.5	4.4	-166.52	-294.0	39.2	372.7	361.9	10.80	34.510		
2,200.0	2,193.9	2,216.3	2,216.1	6.5	4.5	-166.77	-293.1	39.9	374.8	363.9	10.88	34.453		
2,280.0	2,272.4	2,302.3	2,301.8	6.8	4.7	-168.23	-287.0	44.8	385.2	373.9	11.31	34.052		
2,300.0	2,292.0	2,323.8	2,323.1	6.8	4.8	-168.62	-285.2	46.3	387.6	376.2	11.42	33.939		
2,375.0	2,365.7	2,404.3	2,403.0	7.1	5.1	-170.24	-277.3	52.8	396.0	384.1	11.84	33.458		
2,400.0	2,390.2	2,431.1	2,429.5	7.2	5.1	-170.82	-274.3	55.2	398.6	386.6	11.97	33.288		
2,470.0	2,458.9	2,505.9	2,503.3	7.4	5.4	-172.54	-264.8	62.9	405.3	392.9	12.36	32.779		
2,500.0	2,488.4	2,537.8	2,534.7	7.5	5.5	-173.33	-260.3	66.5	407.9	395.4	12.53	32.557		
2,565.0	2,552.2	2,606.8	2,602.3	7.7	5.8	-175.13	-249.7	75.2	413.4	400.5	12.89	32.065		
2,600.0	2,586.5	2,643.8	2,638.4	7.9	5.9	-176.16	-243.5	80.2	416.1	403.0	13.08	31.804		
2,660.0	2,645.4	2,706.4	2,699.3	8.1	6.2	-177.99	-232.2	89.4	420.6	407.2	13.41	31.368		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-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)		
2,700.0	2,684.7	2,745.3	2,737.0	8.2	6.3	-179.15	-224.8	95.4	423.6	410.0	13.61	31.123	
2,755.0	2,738.7	2,798.8	2,789.0	8.4	6.5	179.28	-214.8	103.5	428.1	414.2	13.89	30.819	
2,800.0	2,782.8	2,842.6	2,831.4	8.6	6.6	178.03	-206.6	110.2	431.9	417.8	14.12	30.600	
2,850.0	2,831.9	2,891.3	2,878.6	8.8	6.8	176.66	-197.4	117.6	436.5	422.1	14.37	30.384	
2,900.0	2,881.0	2,939.9	2,925.9	9.0	7.0	175.31	-188.3	125.1	441.3	426.7	14.61	30.199	
2,945.0	2,925.2	2,983.7	2,968.3	9.1	7.1	174.13	-180.1	131.7	445.9	431.0	14.84	30.053	
3,000.0	2,979.2	3,037.2	3,020.3	9.4	7.3	172.71	-170.0	139.9	451.7	436.6	15.10	29.905	
3,040.0	3,018.4	3,076.1	3,058.0	9.5	7.5	171.70	-162.7	145.8	456.1	440.8	15.30	29.813	
3,100.0	3,077.3	3,134.5	3,114.7	9.7	7.7	170.23	-151.8	154.8	463.0	447.4	15.59	29.704	
3,135.0	3,111.7	3,168.6	3,147.7	9.9	7.8	169.39	-145.4	160.0	467.2	451.4	15.75	29.653	
3,200.0	3,175.5	3,231.8	3,209.1	10.1	8.1	167.86	-133.5	169.6	475.2	459.1	16.06	29.583	
3,230.0	3,205.0	3,261.0	3,237.4	10.3	8.2	167.17	-128.0	174.1	479.0	462.8	16.20	29.560	
3,300.0	3,273.7	3,329.1	3,303.5	10.6	8.5	165.61	-115.2	184.4	488.1	471.6	16.53	29.530	
3,325.0	3,298.2	3,353.5	3,327.1	10.7	8.6	165.07	-110.6	188.2	491.4	474.8	16.64	29.525	
3,400.0	3,371.8	3,426.4	3,397.9	11.0	8.9	163.48	-96.9	199.3	501.8	484.8	16.99	29.532	
3,420.0	3,391.5	3,445.9	3,416.8	11.0	9.0	163.06	-93.3	202.3	504.6	487.5	17.08	29.538	
3,500.0	3,470.0	3,523.7	3,492.3	11.4	9.3	161.46	-78.7	214.1	516.1	498.6	17.45	29.579	
3,515.0	3,484.7	3,538.3	3,506.5	11.4	9.4	161.16	-75.9	216.4	518.3	500.8	17.52	29.589	
3,600.0	3,568.2	3,621.0	3,586.7	11.8	9.7	159.54	-60.4	229.0	531.0	513.1	17.90	29.663	
3,610.0	3,578.0	3,630.8	3,596.2	11.8	9.8	159.36	-58.6	230.5	532.6	514.6	17.95	29.673	
3,700.0	3,666.3	3,718.3	3,681.1	12.2	10.1	157.73	-42.1	243.8	546.5	528.2	18.36	29.775	
3,705.0	3,671.2	3,723.2	3,685.9	12.2	10.2	157.64	-41.2	244.6	547.3	529.0	18.38	29.781	
3,800.0	3,764.5	3,815.6	3,775.6	12.6	10.6	156.02	-23.8	258.7	562.6	543.8	18.81	29.909	
3,895.0	3,857.7	3,908.1	3,865.2	13.1	11.0	154.48	-6.5	272.8	578.3	559.0	19.24	30.051	
3,900.0	3,862.6	3,913.0	3,870.0	13.1	11.0	154.40	-5.6	273.5	579.1	559.8	19.26	30.059	
3,990.0	3,951.0	4,000.5	3,954.9	13.5	11.4	153.02	10.9	286.9	594.3	574.6	19.68	30.204	
4,000.0	3,960.8	4,010.3	3,964.4	13.5	11.4	152.87	12.7	288.4	596.0	576.3	19.72	30.221	
4,085.0	4,044.2	4,093.0	4,044.6	13.9	11.8	151.64	28.2	301.0	610.8	590.6	20.11	30.367	
4,097.4	4,056.4	4,105.0	4,056.3	13.9	11.9	151.46	30.5	302.8	612.9	592.8	20.17	30.389	
4,100.0	4,059.0	4,107.6	4,058.8	13.9	11.9	151.43	31.0	303.2	613.4	593.2	20.18	30.395	
4,180.0	4,137.7	4,185.5	4,134.4	14.3	12.2	150.41	45.6	315.1	626.5	605.9	20.56	30.468	
4,200.0	4,157.5	4,205.0	4,153.3	14.4	12.3	150.14	49.3	318.1	629.5	608.9	20.66	30.474	
4,275.0	4,231.7	4,278.2	4,224.3	14.7	12.6	149.11	63.0	329.2	639.9	618.9	21.00	30.479	
4,300.0	4,256.5	4,302.6	4,248.0	14.8	12.8	148.75	67.6	333.0	643.1	622.0	21.11	30.468	
4,370.0	4,326.1	4,370.9	4,314.3	15.1	13.1	147.71	80.4	343.4	651.1	629.7	21.40	30.424	
4,400.0	4,356.0	4,400.2	4,342.7	15.3	13.2	147.24	85.9	347.9	654.2	632.7	21.53	30.391	
4,465.0	4,420.8	4,463.6	4,404.3	15.5	13.5	146.20	97.8	357.5	660.2	638.4	21.78	30.315	
4,500.0	4,455.7	4,497.7	4,437.4	15.6	13.6	145.61	104.2	362.7	663.0	641.1	21.91	30.258	
4,560.0	4,515.7	4,556.2	4,494.1	15.8	13.9	144.57	115.2	371.7	667.2	645.1	22.11	30.171	
4,600.0	4,555.6	4,595.1	4,531.8	16.0	14.1	143.84	122.5	377.6	669.5	647.3	22.25	30.096	
4,647.4	4,603.0	4,641.0	4,576.4	16.0	14.3	118.50	131.2	384.6	671.9	649.6	22.33	30.089	
4,655.0	4,610.6	4,648.5	4,583.6	16.0	14.3	118.35	132.6	385.7	672.3	649.9	22.34	30.094	
4,700.0	4,655.6	4,692.1	4,626.0	16.1	14.6	117.46	140.8	392.4	674.5	652.1	22.39	30.123	
4,750.0	4,705.6	4,740.6	4,673.1	16.1	14.8	116.49	149.9	399.8	677.1	654.6	22.47	30.134	
4,800.0	4,755.6	4,789.1	4,720.1	16.1	15.0	115.52	159.0	407.2	679.9	657.3	22.55	30.144	
4,845.0	4,800.6	4,832.8	4,762.5	16.1	15.2	114.66	167.2	413.9	682.6	660.0	22.64	30.153	
4,900.0	4,855.6	4,886.2	4,814.3	16.2	15.5	113.61	177.2	422.0	686.1	663.4	22.75	30.161	
4,940.0	4,895.6	4,925.0	4,851.9	16.2	15.6	112.86	184.5	427.9	688.9	666.0	22.84	30.167	
5,000.0	4,955.6	4,983.2	4,908.4	16.2	15.9	111.74	195.4	436.8	693.2	670.2	22.97	30.172	
5,035.0	4,990.6	5,017.2	4,941.4	16.2	16.1	111.09	201.8	442.0	695.8	672.8	23.06	30.174	
5,100.0	5,055.6	5,080.2	5,002.6	16.3	16.4	109.90	213.6	451.6	701.0	677.7	23.23	30.175	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,130.0	5,085.6	5,109.3	5,030.8	16.3	16.5	109.35	219.1	456.1	703.5	680.1	23.31	30.175		
5,200.0	5,155.6	5,177.3	5,096.7	16.3	16.8	108.10	231.9	466.4	709.5	686.0	23.52	30.171		
5,225.0	5,180.6	5,201.5	5,120.2	16.4	16.9	107.66	236.4	470.1	711.8	688.2	23.59	30.168		
5,300.0	5,255.6	5,274.3	5,190.9	16.4	17.3	106.34	250.1	481.2	718.8	694.9	23.83	30.159		
5,320.0	5,275.6	5,293.7	5,209.7	16.4	17.4	106.00	253.7	484.2	720.7	696.8	23.90	30.155		
5,400.0	5,355.6	5,371.3	5,285.0	16.5	17.7	104.63	268.3	496.0	728.7	704.5	24.18	30.139		
5,415.0	5,370.6	5,385.9	5,299.1	16.5	17.8	104.38	271.0	498.3	730.2	706.0	24.23	30.136		
5,500.0	5,455.6	5,468.4	5,379.1	16.5	18.2	102.97	286.5	510.8	739.3	714.7	24.55	30.114		
5,510.0	5,465.6	5,478.1	5,388.6	16.5	18.3	102.80	288.3	512.3	740.4	715.8	24.59	30.111		
5,600.0	5,555.6	5,565.4	5,473.3	16.6	18.7	101.35	304.7	525.6	750.5	725.6	24.95	30.083		
5,605.0	5,560.6	5,570.2	5,478.0	16.6	18.7	101.27	305.7	526.4	751.1	726.1	24.97	30.081		
5,700.0	5,655.6	5,662.4	5,567.4	16.6	19.1	99.77	323.0	540.4	762.3	737.0	25.37	30.047		
5,795.0	5,750.6	5,754.6	5,656.9	16.7	19.6	98.32	340.3	554.5	774.1	748.3	25.79	30.011		
5,800.0	5,755.6	5,759.4	5,661.6	16.7	19.6	98.25	341.2	555.2	774.7	748.9	25.82	30.009		
5,890.0	5,845.6	5,846.8	5,746.3	16.7	20.0	96.91	357.6	568.6	786.4	760.1	26.24	29.973		
5,900.0	5,855.6	5,856.5	5,755.7	16.8	20.1	96.77	359.4	570.0	787.7	761.4	26.28	29.969		
5,985.0	5,940.6	5,938.9	5,835.8	16.8	20.5	95.55	374.9	582.6	799.1	772.4	26.70	29.933		
6,000.0	5,955.6	5,953.5	5,849.9	16.8	20.5	95.33	377.6	584.9	801.2	774.4	26.77	29.927		
6,080.0	6,035.6	6,031.1	5,925.2	16.9	20.9	94.22	392.2	596.7	812.3	785.1	27.17	29.893		
6,100.0	6,055.6	6,050.5	5,944.0	16.9	21.0	93.95	395.8	599.7	815.1	787.9	27.28	29.885		
6,175.0	6,130.6	6,123.3	6,014.6	16.9	21.3	92.94	409.5	610.8	825.9	798.3	27.66	29.861		
6,200.0	6,155.6	6,147.6	6,038.2	16.9	21.4	92.61	414.1	614.5	829.6	801.8	27.78	29.857		
6,270.0	6,225.6	6,230.1	6,118.6	17.0	21.8	91.56	428.7	626.4	839.4	811.2	28.20	29.764		
6,300.0	6,255.6	6,266.0	6,153.6	17.0	22.0	91.16	434.5	631.1	843.3	814.9	28.38	29.710		
6,365.0	6,320.6	6,344.4	6,230.6	17.0	22.4	90.37	446.0	640.4	851.0	822.2	28.76	29.583		
6,400.0	6,355.6	6,386.9	6,272.5	17.0	22.6	89.99	451.5	644.9	854.7	825.7	28.96	29.510		
6,460.0	6,415.6	6,460.3	6,345.1	17.1	22.9	89.43	460.0	651.8	860.4	831.1	29.28	29.381		
6,500.0	6,455.6	6,509.5	6,393.9	17.1	23.1	89.11	464.8	655.7	863.6	834.1	29.49	29.288		
6,555.0	6,510.6	6,577.4	6,461.5	17.1	23.4	88.74	470.4	660.3	867.4	837.7	29.74	29.164		
6,600.0	6,555.6	6,633.3	6,517.1	17.2	23.6	88.50	474.1	663.3	869.9	840.0	29.94	29.060		
6,650.0	6,605.6	6,695.6	6,579.2	17.2	23.9	88.30	477.3	665.8	872.0	841.9	30.13	28.940		
6,700.0	6,655.6	6,757.9	6,641.6	17.2	24.1	88.17	479.3	667.5	873.4	843.1	30.30	28.830		
6,745.0	6,700.6	6,814.2	6,697.8	17.3	24.3	88.11	480.3	668.3	874.1	843.7	30.41	28.741		
6,800.0	6,755.6	6,876.2	6,759.8	17.3	24.3	88.10	480.5	668.4	874.2	843.7	30.48	28.685		
6,840.0	6,795.6	6,916.2	6,799.8	17.3	24.3	88.10	480.5	668.4	874.2	843.7	30.52	28.640		
6,900.0	6,855.6	6,976.2	6,859.8	17.4	24.3	88.10	480.5	668.4	874.2	843.6	30.60	28.566		
6,935.0	6,890.6	7,011.2	6,894.8	17.4	24.4	88.10	480.5	668.4	874.2	843.5	30.65	28.523		
7,000.0	6,955.6	7,076.2	6,959.8	17.4	24.4	88.10	480.5	668.4	874.2	843.4	30.73	28.443		
7,030.0	6,985.6	7,106.2	6,989.8	17.4	24.4	88.10	480.5	668.4	874.2	843.4	30.77	28.409		
7,100.0	7,055.6	7,179.6	7,063.1	17.5	24.4	88.28	477.7	668.4	874.1	843.3	30.80	28.380 SF		
7,125.0	7,080.6	7,205.9	7,089.2	17.5	24.4	88.48	474.5	668.4	874.0	843.2	30.79	28.386		
7,200.0	7,155.6	7,282.3	7,163.9	17.5	24.5	89.53	458.6	668.2	873.6	842.9	30.71	28.448		
7,220.0	7,175.6	7,301.8	7,182.6	17.6	24.5	89.90	452.9	668.2	873.5	842.8	30.68	28.474		
7,247.1	7,202.7	7,327.6	7,206.9	17.6	24.5	90.45	444.5	668.1	873.4	842.8	30.63	28.516		
7,300.0	7,255.6	7,375.5	7,251.1	17.6	24.6	91.67	425.9	668.0	873.7	843.2	30.53	28.617		
7,315.0	7,270.6	7,388.5	7,262.8	17.6	24.6	92.04	420.2	667.9	873.9	843.4	30.50	28.651		
7,400.0	7,355.6	7,456.5	7,321.7	17.7	24.6	94.26	386.4	667.7	876.2	845.9	30.33	28.887		
7,410.0	7,365.6	7,463.9	7,327.8	17.7	24.6	94.53	382.3	667.6	876.7	846.4	30.31	28.921		
7,500.0	7,455.6	7,524.8	7,376.4	17.7	24.7	96.92	345.5	667.3	883.0	852.8	30.14	29.292		
7,505.0	7,460.6	7,527.9	7,378.8	17.7	24.7	97.05	343.5	667.3	883.5	853.3	30.14	29.316		
7,600.0	7,555.6	7,581.8	7,418.0	17.8	24.7	99.42	306.7	667.0	895.5	865.6	29.97	29.877		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-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	
7,695.0	7,650.6	7,626.9	7,448.2	17.8	24.8	101.55	273.2	666.8	913.8	883.9	29.83	30.634	
7,700.0	7,655.6	7,629.0	7,449.5	17.8	24.8	101.66	271.5	666.7	914.9	885.1	29.82	30.679	
7,790.0	7,745.6	7,664.8	7,471.4	17.9	24.8	103.43	243.2	666.5	938.6	908.9	29.70	31.604	
7,800.0	7,755.6	7,668.4	7,473.5	17.9	24.8	103.62	240.2	666.5	941.6	911.9	29.69	31.719	
7,885.0	7,840.6	7,700.0	7,491.1	18.0	24.8	105.23	214.0	666.3	970.1	940.5	29.57	32.809	
7,900.0	7,855.6	7,700.0	7,491.1	18.0	24.8	105.23	214.0	666.3	975.7	946.1	29.58	32.986	
7,980.0	7,935.6	7,724.2	7,503.6	18.0	24.8	106.50	193.4	666.1	1,008.1	978.6	29.50	34.173	
8,000.0	7,955.6	7,729.4	7,506.2	18.0	24.8	106.77	188.8	666.1	1,016.9	987.4	29.48	34.489	
8,075.0	8,030.6	7,750.0	7,516.0	18.1	24.8	107.86	170.7	665.9	1,052.2	1,022.7	29.43	35.753	
8,100.0	8,055.6	7,750.0	7,516.0	18.1	24.8	107.86	170.7	665.9	1,064.7	1,035.3	29.45	36.159	
8,170.0	8,125.6	7,767.8	7,523.9	18.1	24.9	108.81	154.7	665.8	1,101.8	1,072.4	29.42	37.457	
8,200.0	8,155.6	7,773.7	7,526.4	18.2	24.9	109.12	149.4	665.8	1,118.6	1,089.1	29.41	38.028	
8,265.0	8,220.6	7,785.5	7,531.3	18.2	24.9	109.75	138.7	665.7	1,156.5	1,127.0	29.42	39.304	
8,300.0	8,255.6	7,800.0	7,537.0	18.2	24.9	110.53	125.3	665.6	1,177.8	1,148.4	29.40	40.059	
8,360.0	8,315.6	7,800.0	7,537.0	18.3	24.9	110.53	125.3	665.6	1,215.6	1,186.1	29.47	41.248	
8,400.0	8,355.6	7,800.0	7,537.0	18.3	24.9	110.53	125.3	665.6	1,241.7	1,212.2	29.52	42.066	
8,455.0	8,410.6	7,800.0	7,537.0	18.3	24.9	110.53	125.3	665.6	1,278.8	1,249.2	29.59	43.218	
8,500.0	8,455.6	7,820.6	7,544.5	18.4	24.9	111.63	106.1	665.4	1,309.7	1,280.1	29.59	44.263	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
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	4.9	4.9	3.0	3.0	-175.23	-175.23	-300.5	-25.1	301.5				
95.0	95.0	99.9	99.9	3.0	3.0	-175.23	-175.23	-300.5	-25.1	301.5	295.5	6.02	50.107	
100.0	100.0	104.9	104.9	3.0	3.0	-175.23	-175.23	-300.5	-25.1	301.5	295.5	6.02	50.082	
190.0	190.0	194.9	194.9	3.1	3.0	-175.23	-175.23	-300.5	-25.1	301.5	295.4	6.13	49.160	
200.0	200.0	204.9	204.9	3.1	3.0	-175.23	-175.23	-300.5	-25.1	301.5	295.4	6.15	49.014	
285.0	285.0	289.9	289.9	3.3	3.0	-175.23	-175.23	-300.5	-25.1	301.5	295.3	6.27	48.130	
300.0	300.0	304.9	304.9	3.3	3.0	-175.23	-175.23	-300.5	-25.1	301.5	295.3	6.29	47.955	
380.0	380.0	384.9	384.9	3.4	3.0	-175.23	-175.23	-300.5	-25.1	301.5	295.1	6.40	47.127	
400.0	400.0	404.9	404.9	3.4	3.0	-175.23	-175.23	-300.5	-25.1	301.5	295.1	6.43	46.906	
475.0	475.0	479.9	479.9	3.5	3.0	-175.23	-175.23	-300.5	-25.1	301.5	295.0	6.54	46.137	
500.0	500.0	504.9	504.9	3.5	3.1	-175.23	-175.23	-300.5	-25.1	301.5	295.0	6.57	45.869	
570.0	570.0	574.9	574.9	3.6	3.1	-175.23	-175.23	-300.5	-25.1	301.5	294.9	6.68	45.159	
600.0	600.0	604.9	604.9	3.6	3.1	-175.23	-175.23	-300.5	-25.1	301.5	294.8	6.72	44.846	
665.0	665.0	669.9	669.9	3.7	3.1	-175.23	-175.23	-300.5	-25.1	301.5	294.7	6.82	44.195	
700.0	700.0	704.9	704.9	3.8	3.1	-175.23	-175.23	-300.5	-25.1	301.5	294.7	6.88	43.838	
760.0	760.0	764.9	764.9	3.8	3.1	-175.23	-175.23	-300.5	-25.1	301.5	294.6	6.97	43.246	
800.0	800.0	804.9	804.9	3.9	3.2	-175.23	-175.23	-300.5	-25.1	301.5	294.5	7.04	42.846	
855.0	855.0	859.9	859.9	4.0	3.2	-175.23	-175.23	-300.5	-25.1	301.5	294.4	7.13	42.313	
900.0	900.0	904.9	904.9	4.0	3.2	-175.23	-175.23	-300.5	-25.1	301.5	294.3	7.20	41.873	
950.0	950.0	954.9	954.9	4.1	3.2	-175.23	-175.23	-300.5	-25.1	301.5	294.3	7.28	41.397	
1,000.0	1,000.0	1,004.9	1,004.9	4.1	3.2	-175.23	-175.23	-300.5	-25.1	301.5	294.2	7.37	40.919	
1,045.0	1,045.0	1,049.9	1,049.9	4.2	3.3	-175.23	-175.23	-300.5	-25.1	301.5	294.1	7.45	40.500	
1,100.0	1,100.0	1,104.9	1,104.9	4.2	3.3	-175.23	-175.23	-300.5	-25.1	301.5	294.0	7.54	39.986	
1,140.0	1,140.0	1,144.9	1,144.9	4.3	3.3	-175.23	-175.23	-300.5	-25.1	301.5	293.9	7.61	39.622	
1,200.0	1,200.0	1,204.9	1,204.9	4.4	3.4	-175.23	-175.23	-300.5	-25.1	301.5	293.8	7.72	39.075	
1,235.0	1,235.0	1,239.9	1,239.9	4.4	3.4	-175.23	-175.23	-300.5	-25.1	301.5	293.8	7.78	38.764	
1,300.0	1,300.0	1,304.9	1,304.9	4.5	3.4	-175.23	-175.23	-300.5	-25.1	301.5	293.6	7.90	38.187	
1,330.0	1,330.0	1,334.9	1,334.9	4.5	3.4	-175.23	-175.23	-300.5	-25.1	301.5	293.6	7.95	37.926	
1,400.0	1,400.0	1,404.9	1,404.9	4.6	3.5	-175.23	-175.23	-300.5	-25.1	301.5	293.5	8.08	37.321	
1,425.0	1,425.0	1,429.9	1,429.9	4.6	3.5	-175.23	-175.23	-300.5	-25.1	301.5	293.4	8.13	37.110	
1,500.0	1,500.0	1,504.9	1,504.9	4.7	3.6	-175.23	-175.23	-300.5	-25.1	301.5	293.3	8.27	36.480	
1,520.0	1,520.0	1,524.9	1,524.9	4.8	3.6	-150.77	-150.77	-300.5	-25.1	301.6	293.3	8.32	36.267	
1,600.0	1,600.0	1,604.9	1,604.9	4.9	3.6	-150.92	-150.92	-300.5	-25.1	303.1	294.6	8.52	35.592	
1,615.0	1,615.0	1,619.9	1,619.9	4.9	3.6	-150.96	-150.96	-300.5	-25.1	303.6	295.0	8.56	35.455	
1,700.0	1,699.8	1,704.7	1,704.7	5.2	3.7	-151.34	-151.34	-300.5	-25.1	307.7	298.8	8.83	34.835	
1,710.0	1,709.8	1,714.7	1,714.7	5.2	3.7	-151.40	-151.40	-300.5	-25.1	308.3	299.4	8.86	34.777	
1,800.0	1,799.5	1,804.4	1,804.4	5.4	3.8	-152.03	-152.03	-300.5	-25.1	315.3	306.2	9.17	34.401	
1,805.0	1,804.4	1,809.3	1,809.3	5.5	3.8	-152.07	-152.07	-300.5	-25.1	315.8	306.6	9.18	34.386	
1,900.0	1,898.7	1,903.6	1,903.6	5.7	3.9	-152.93	-152.93	-300.5	-25.1	326.2	316.6	9.52	34.249	
1,995.0	1,992.5	1,997.4	1,997.4	6.0	3.9	-153.95	-153.95	-300.5	-25.1	339.4	329.5	9.89	34.336	
2,000.0	1,997.5	2,002.6	2,002.6	6.1	3.9	-154.01	-154.01	-300.5	-25.1	340.2	330.3	9.91	34.336	
2,050.0	2,046.6	2,057.0	2,057.0	6.2	4.1	-154.61	-154.61	-300.0	-25.4	348.0	337.9	10.11	34.412	
2,090.0	2,085.9	2,100.9	2,100.8	6.2	4.1	-155.08	-155.08	-299.1	-26.1	354.1	343.8	10.28	34.440	
2,100.0	2,095.7	2,111.8	2,111.8	6.3	4.2	-155.18	-155.18	-298.7	-26.4	355.5	345.2	10.33	34.421	
2,185.0	2,179.1	2,205.6	2,205.4	6.5	4.4	-155.88	-155.88	-294.5	-29.4	366.5	355.7	10.81	33.914	
2,200.0	2,193.9	2,222.2	2,222.0	6.5	4.5	-155.97	-155.97	-293.5	-30.2	368.3	357.4	10.89	33.808	
2,280.0	2,272.4	2,311.2	2,310.6	6.8	4.8	-156.30	-156.30	-286.9	-35.1	376.2	364.9	11.36	33.109	
2,300.0	2,292.0	2,333.6	2,332.8	6.8	4.8	-156.34	-156.34	-284.8	-36.5	377.9	366.4	11.48	32.912	
2,375.0	2,365.7	2,417.5	2,416.0	7.1	5.1	-156.35	-156.35	-276.0	-43.0	383.1	371.1	11.94	32.085	
2,400.0	2,390.2	2,445.5	2,443.7	7.2	5.2	-156.31	-156.31	-272.6	-45.5	384.4	372.3	12.09	31.787	
2,470.0	2,458.9	2,524.1	2,521.2	7.4	5.5	-156.07	-156.07	-261.9	-53.3	387.0	374.5	12.53	30.883	

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,500.0	2,488.4	2,557.8	2,554.3	7.5	5.6	-155.91	-256.8	-57.0	387.7	375.0	12.72	30.476		
2,565.0	2,552.2	2,630.7	2,625.7	7.7	5.9	-155.45	-244.7	-65.9	388.1	375.0	13.14	29.549		
2,600.0	2,586.5	2,670.0	2,663.9	7.9	6.0	-155.14	-237.5	-71.1	387.8	374.5	13.36	29.035		
2,660.0	2,645.4	2,735.8	2,727.8	8.1	6.3	-154.50	-224.6	-80.5	386.5	372.8	13.69	28.226		
2,700.0	2,684.7	2,775.7	2,766.4	8.2	6.4	-154.09	-216.6	-86.4	385.3	371.4	13.91	27.698		
2,755.0	2,738.7	2,830.6	2,819.5	8.4	6.6	-153.51	-205.5	-94.5	383.8	369.6	14.23	26.970		
2,800.0	2,782.8	2,875.4	2,862.9	8.6	6.7	-153.04	-196.4	-101.1	382.6	368.1	14.50	26.385		
2,850.0	2,831.9	2,925.3	2,911.2	8.8	6.9	-152.51	-186.3	-108.5	381.2	366.4	14.80	25.757		
2,900.0	2,881.0	2,975.1	2,959.5	9.0	7.1	-151.98	-176.2	-115.9	379.9	364.8	15.10	25.156		
2,945.0	2,925.2	3,020.0	3,002.9	9.1	7.2	-151.50	-167.2	-122.5	378.8	363.4	15.38	24.635		
3,000.0	2,979.2	3,074.9	3,056.0	9.4	7.5	-150.90	-156.1	-130.6	377.4	361.7	15.71	24.026		
3,040.0	3,018.4	3,114.7	3,094.6	9.5	7.6	-150.47	-148.0	-136.5	376.5	360.5	15.95	23.601		
3,100.0	3,077.3	3,174.6	3,152.5	9.7	7.8	-149.81	-135.9	-145.3	375.1	358.7	16.31	22.991		
3,135.0	3,111.7	3,209.5	3,186.3	9.9	8.0	-149.43	-128.8	-150.5	374.3	357.7	16.52	22.650		
3,200.0	3,175.5	3,274.3	3,249.1	10.1	8.2	-148.71	-115.7	-160.0	372.8	355.9	16.91	22.044		
3,230.0	3,205.0	3,304.2	3,278.0	10.3	8.4	-148.38	-109.7	-164.5	372.2	355.1	17.09	21.777		
3,300.0	3,273.7	3,374.0	3,345.6	10.6	8.7	-147.59	-95.6	-174.8	370.7	353.2	17.51	21.179		
3,325.0	3,298.2	3,398.9	3,369.7	10.7	8.8	-147.31	-90.5	-178.5	370.2	352.6	17.65	20.975		
3,400.0	3,371.8	3,473.7	3,442.1	11.0	9.1	-146.46	-75.4	-189.5	368.8	350.7	18.09	20.390		
3,420.0	3,391.5	3,493.7	3,461.4	11.0	9.2	-146.24	-71.4	-192.4	368.4	350.2	18.20	20.241		
3,500.0	3,470.0	3,573.4	3,538.7	11.4	9.5	-145.32	-55.2	-204.2	367.0	348.4	18.66	19.671		
3,515.0	3,484.7	3,588.4	3,553.2	11.4	9.6	-145.15	-52.2	-206.4	366.8	348.0	18.74	19.569		
3,600.0	3,568.2	3,673.1	3,635.2	11.8	9.9	-144.17	-35.1	-219.0	365.4	346.1	19.21	19.016		
3,610.0	3,578.0	3,683.1	3,644.9	11.8	10.0	-144.06	-33.1	-220.4	365.2	345.9	19.27	18.954		
3,700.0	3,666.3	3,772.9	3,731.8	12.2	10.4	-143.01	-14.9	-233.7	363.9	344.1	19.75	18.420		
3,705.0	3,671.2	3,777.8	3,736.6	12.2	10.4	-142.95	-13.9	-234.4	363.8	344.0	19.78	18.392		
3,800.0	3,764.5	3,872.6	3,828.3	12.6	10.8	-141.84	5.2	-248.4	362.5	342.2	20.28	17.879		
3,895.0	3,857.7	3,967.3	3,920.0	13.1	11.2	-140.72	24.4	-262.4	361.4	340.6	20.76	17.410		
3,900.0	3,862.6	3,972.3	3,924.8	13.1	11.3	-140.66	25.4	-263.1	361.3	340.5	20.78	17.387		
3,990.0	3,951.0	4,062.0	4,011.7	13.5	11.7	-139.60	43.6	-276.4	360.4	339.2	21.22	16.984		
4,000.0	3,960.8	4,072.0	4,021.4	13.5	11.7	-139.48	45.6	-277.9	360.3	339.0	21.27	16.941		
4,085.0	4,044.2	4,156.8	4,103.4	13.9	12.1	-138.47	62.7	-290.4	359.5	337.8	21.66	16.597		
4,097.4	4,056.4	4,169.1	4,115.4	13.9	12.2	-138.32	65.2	-292.2	359.4	337.7	21.72	16.550		
4,100.0	4,059.0	4,171.7	4,117.9	13.9	12.2	-138.29	65.7	-292.6	359.4	337.7	21.73	16.541		
4,180.0	4,137.7	4,251.4	4,195.1	14.3	12.5	-137.18	81.9	-304.4	357.9	335.8	22.07	16.217		
4,200.0	4,157.5	4,271.3	4,214.3	14.4	12.6	-136.87	85.9	-307.3	357.3	335.2	22.15	16.134		
4,275.0	4,231.7	4,345.8	4,286.4	14.7	13.0	-135.51	100.9	-318.3	354.3	331.9	22.38	15.832		
4,300.0	4,256.5	4,370.6	4,310.4	14.8	13.1	-135.01	106.0	-322.0	353.0	330.5	22.44	15.731		
4,370.0	4,326.1	4,439.8	4,377.5	15.1	13.4	-133.42	120.0	-332.2	348.7	326.2	22.55	15.464		
4,400.0	4,356.0	4,469.4	4,406.1	15.3	13.6	-132.66	125.9	-336.6	346.6	324.1	22.58	15.354		
4,465.0	4,420.8	4,533.3	4,468.0	15.5	13.8	-130.86	138.9	-346.0	341.6	319.0	22.57	15.137		
4,500.0	4,455.7	4,567.7	4,501.2	15.6	14.0	-129.78	145.8	-351.1	338.6	316.1	22.53	15.028		
4,560.0	4,515.7	4,626.3	4,558.0	15.8	14.3	-127.77	157.7	-359.7	333.2	310.8	22.40	14.875		
4,600.0	4,555.6	4,665.3	4,595.7	16.0	14.5	-126.30	165.5	-365.5	329.3	307.1	22.27	14.788		
4,647.4	4,603.0	4,711.2	4,640.2	16.0	14.7	-148.88	174.8	-372.3	324.7	302.6	22.03	14.741		
4,655.0	4,610.6	4,718.6	4,647.4	16.0	14.7	-148.58	176.3	-373.4	323.9	301.9	21.98	14.737		
4,700.0	4,655.6	4,762.2	4,689.5	16.1	14.9	-146.76	185.1	-379.8	319.7	298.0	21.70	14.730		
4,750.0	4,705.6	4,810.6	4,736.4	16.1	15.2	-144.69	194.9	-386.9	315.3	293.9	21.40	14.735		
4,800.0	4,755.6	4,859.0	4,783.3	16.1	15.4	-142.57	204.7	-394.1	311.5	290.4	21.10	14.761		
4,845.0	4,800.6	4,902.5	4,825.4	16.1	15.6	-140.62	213.5	-400.5	308.4	287.5	20.84	14.801		
4,900.0	4,855.6	4,955.8	4,877.0	16.2	15.8	-138.19	224.3	-408.4	305.1	284.6	20.53	14.866		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error: 0.0 usft		
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS				Rule Assigned:										Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance			Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
4,940.0	4,895.6	4,994.5	4,914.5	16.2	16.0	-136.40	232.1	-414.1	303.1	282.8	20.32	14.920			
5,000.0	4,955.6	5,052.6	4,970.7	16.2	16.3	-133.67	243.9	-422.7	300.7	280.7	20.04	15.007			
5,035.0	4,990.6	5,086.5	5,003.5	16.2	16.5	-132.06	250.7	-427.7	299.7	279.8	19.90	15.056			
5,100.0	5,055.6	5,149.4	5,064.5	16.3	16.8	-129.05	263.4	-437.0	298.4	278.7	19.72	15.134			
5,130.0	5,085.6	5,178.5	5,092.6	16.3	16.9	-127.65	269.3	-441.3	298.1	278.4	19.66	15.161			
5,162.4	5,118.0	5,209.8	5,122.9	16.3	17.0	-126.14	275.7	-445.9	298.0	278.3	19.63	15.181	CC, ES		
5,200.0	5,155.6	5,246.2	5,158.2	16.3	17.2	-124.39	283.0	-451.3	298.1	278.5	19.62	15.192			
5,225.0	5,180.6	5,270.4	5,181.6	16.4	17.3	-123.23	287.9	-454.9	298.4	278.7	19.64	15.191			
5,300.0	5,255.6	5,343.0	5,251.9	16.4	17.7	-119.75	302.6	-465.6	299.9	280.1	19.80	15.145			
5,320.0	5,275.6	5,362.4	5,270.7	16.4	17.8	-118.84	306.5	-468.4	300.6	280.7	19.88	15.122			
5,400.0	5,355.6	5,439.9	5,345.6	16.5	18.1	-115.20	322.2	-479.9	303.8	283.6	20.27	14.987			
5,415.0	5,370.6	5,454.4	5,359.7	16.5	18.2	-114.53	325.1	-482.0	304.6	284.2	20.37	14.955			
5,500.0	5,455.6	5,536.7	5,439.4	16.5	18.6	-110.78	341.8	-494.2	309.7	288.7	21.01	14.744			
5,510.0	5,465.6	5,546.4	5,448.7	16.5	18.7	-110.35	343.7	-495.6	310.4	289.3	21.09	14.716			
5,600.0	5,555.6	5,633.5	5,533.1	16.6	19.1	-106.54	361.3	-508.5	317.5	295.5	21.96	14.460			
5,605.0	5,560.6	5,638.3	5,537.8	16.6	19.1	-106.34	362.3	-509.2	317.9	295.9	22.01	14.445			
5,700.0	5,655.6	5,732.0	5,628.6	16.6	19.5	-102.48	381.1	-522.9	326.9	303.8	23.06	14.175			
5,795.0	5,750.6	5,829.6	5,723.7	16.7	20.0	-99.10	398.5	-535.6	336.1	311.9	24.13	13.929			
5,800.0	5,755.6	5,834.8	5,728.8	16.7	20.1	-98.93	399.4	-536.3	336.5	312.3	24.18	13.917			
5,890.0	5,845.6	5,928.6	5,821.0	16.7	20.5	-96.33	413.5	-546.6	344.7	319.6	25.11	13.728			
5,900.0	5,855.6	5,939.1	5,831.3	16.8	20.5	-96.08	415.0	-547.6	345.5	320.3	25.20	13.709			
5,985.0	5,940.6	6,028.8	5,920.0	16.8	21.0	-94.16	425.9	-555.7	352.2	326.3	25.97	13.565			
6,000.0	5,955.6	6,044.7	5,935.7	16.8	21.0	-93.86	427.6	-556.9	353.3	327.2	26.09	13.543			
6,080.0	6,035.6	6,130.0	6,020.4	16.9	21.4	-92.53	435.6	-562.7	358.4	331.7	26.68	13.432			
6,100.0	6,055.6	6,151.4	6,041.7	16.9	21.5	-92.25	437.3	-564.0	359.4	332.6	26.81	13.408			
6,175.0	6,130.6	6,231.9	6,122.0	16.9	21.8	-91.41	442.5	-567.8	362.8	335.6	27.24	13.321			
6,200.0	6,155.6	6,258.8	6,148.8	16.9	21.9	-91.20	443.8	-568.7	363.7	336.3	27.36	13.295			
6,270.0	6,225.6	6,334.3	6,224.2	17.0	22.2	-90.78	446.4	-570.6	365.4	337.8	27.62	13.229			
6,300.0	6,255.6	6,366.6	6,256.6	17.0	22.3	-90.68	447.1	-571.1	365.9	338.1	27.71	13.204			
6,365.0	6,320.6	6,435.6	6,325.5	17.0	22.4	-90.61	447.5	-571.4	366.1	338.3	27.81	13.164			
6,400.0	6,355.6	6,470.6	6,360.5	17.0	22.4	-90.61	447.5	-571.4	366.1	338.3	27.86	13.143			
6,460.0	6,415.6	6,530.6	6,420.5	17.1	22.4	-90.61	447.5	-571.4	366.1	338.2	27.94	13.106			
6,500.0	6,455.6	6,570.6	6,460.5	17.1	22.4	-90.61	447.5	-571.4	366.1	338.1	27.99	13.080			
6,555.0	6,510.6	6,625.6	6,515.5	17.1	22.5	-90.61	447.5	-571.4	366.1	338.1	28.07	13.044			
6,600.0	6,555.6	6,670.6	6,560.5	17.2	22.5	-90.61	447.5	-571.4	366.1	338.0	28.13	13.015			
6,650.0	6,605.6	6,720.6	6,610.5	17.2	22.5	-90.61	447.5	-571.4	366.1	337.9	28.20	12.983			
6,700.0	6,655.6	6,770.6	6,660.5	17.2	22.5	-90.61	447.5	-571.4	366.1	337.9	28.27	12.951			
6,745.0	6,700.6	6,815.6	6,705.5	17.3	22.5	-90.61	447.5	-571.4	366.1	337.8	28.33	12.922			
6,800.0	6,755.6	6,870.6	6,760.5	17.3	22.6	-90.61	447.5	-571.4	366.1	337.7	28.41	12.887			
6,840.0	6,795.6	6,910.6	6,800.5	17.3	22.6	-90.61	447.5	-571.4	366.1	337.7	28.46	12.862			
6,900.0	6,855.6	6,970.6	6,860.5	17.4	22.6	-90.61	447.5	-571.4	366.1	337.6	28.55	12.824			
6,935.0	6,890.6	7,005.6	6,895.5	17.4	22.6	-90.61	447.5	-571.4	366.1	337.5	28.60	12.803			
7,000.0	6,955.6	7,070.6	6,960.5	17.4	22.7	-90.61	447.5	-571.4	366.1	337.4	28.69	12.763			
7,001.7	6,957.3	7,072.3	6,962.2	17.4	22.7	-90.61	447.5	-571.4	366.1	337.4	28.69	12.762			
7,030.0	6,985.6	7,100.5	6,990.5	17.4	22.7	-90.62	447.4	-571.4	366.1	337.4	28.72	12.747	SF		
7,100.0	7,055.6	7,169.2	7,059.0	17.5	22.7	-91.40	442.4	-571.4	366.3	337.7	28.59	12.811			
7,125.0	7,080.6	7,193.4	7,082.8	17.5	22.7	-91.98	438.7	-571.5	366.4	337.9	28.47	12.871			
7,200.0	7,155.6	7,263.3	7,150.8	17.5	22.8	-94.53	422.4	-571.6	367.6	339.7	27.92	13.165			
7,220.0	7,175.6	7,281.2	7,167.8	17.6	22.8	-95.38	416.9	-571.6	368.2	340.4	27.74	13.271			
7,300.0	7,255.6	7,350.0	7,231.4	17.6	22.9	-99.38	390.8	-571.9	372.7	345.7	26.95	13.829			
7,315.0	7,270.6	7,360.8	7,241.1	17.6	22.9	-100.11	386.1	-571.9	374.0	347.1	26.83	13.939			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,400.0	7,355.6	7,423.8	7,295.7	17.7	22.9	-104.77	354.7	-572.1	384.9	358.8	26.06	14.767	
7,410.0	7,365.6	7,430.7	7,301.4	17.7	22.9	-105.32	350.9	-572.2	386.6	360.6	25.98	14.879	
7,500.0	7,455.6	7,487.8	7,347.3	17.7	23.0	-110.13	316.8	-572.4	407.1	381.7	25.41	16.023	
7,505.0	7,460.6	7,490.8	7,349.5	17.7	23.0	-110.39	314.9	-572.5	408.5	383.1	25.38	16.093	
7,600.0	7,555.6	7,542.0	7,387.4	17.8	23.0	-114.95	280.5	-572.7	440.7	415.6	25.08	17.572	
7,695.0	7,650.6	7,585.4	7,417.0	17.8	23.1	-118.87	248.6	-573.0	482.9	457.9	25.03	19.297	
7,700.0	7,655.6	7,587.5	7,418.4	17.8	23.1	-119.06	247.1	-573.0	485.4	460.4	25.03	19.394	
7,790.0	7,745.6	7,622.4	7,440.2	17.9	23.1	-122.18	219.9	-573.2	534.1	509.0	25.15	21.239	
7,800.0	7,755.6	7,626.0	7,442.4	17.9	23.1	-122.50	217.0	-573.2	540.0	514.8	25.17	21.455	
7,885.0	7,840.6	7,650.0	7,456.3	18.0	23.1	-124.60	197.5	-573.4	592.8	567.5	25.39	23.348	
7,900.0	7,855.6	7,650.0	7,456.3	18.0	23.1	-124.60	197.5	-573.4	602.8	577.3	25.46	23.680	
7,980.0	7,935.6	7,681.1	7,473.2	18.0	23.2	-127.25	171.3	-573.6	657.7	632.0	25.65	25.638	
8,000.0	7,955.6	7,686.4	7,475.8	18.0	23.2	-127.69	166.8	-573.6	672.0	646.3	25.72	26.132	
8,075.0	8,030.6	7,700.0	7,482.7	18.1	23.2	-128.82	155.0	-573.7	727.5	701.5	25.97	28.009	
8,100.0	8,055.6	7,700.0	7,482.7	18.1	23.2	-128.82	155.0	-573.7	746.7	720.6	26.07	28.639	
8,170.0	8,125.6	7,725.0	7,494.4	18.1	23.2	-130.83	132.9	-573.9	801.2	774.9	26.28	30.482	
8,200.0	8,155.6	7,730.9	7,497.1	18.2	23.2	-131.29	127.6	-573.9	825.2	798.8	26.39	31.272	
8,265.0	8,220.6	7,750.0	7,505.2	18.2	23.2	-132.76	110.4	-574.1	878.2	851.6	26.60	33.011	
8,300.0	8,255.6	7,750.0	7,505.2	18.2	23.2	-132.76	110.4	-574.1	907.1	880.4	26.73	33.935	
8,360.0	8,315.6	7,750.0	7,505.2	18.3	23.2	-132.76	110.4	-574.1	957.6	930.7	26.95	35.534	
8,400.0	8,355.6	7,750.0	7,505.2	18.3	23.2	-132.76	110.4	-574.1	991.9	964.8	27.09	36.611	
8,455.0	8,410.6	7,772.7	7,514.1	18.3	23.2	-134.45	89.5	-574.2	1,039.0	1,011.8	27.27	38.104	
8,500.0	8,455.6	7,778.8	7,516.4	18.4	23.2	-134.89	83.8	-574.3	1,078.3	1,050.8	27.42	39.320	
8,550.0	8,505.6	7,800.0	7,523.8	18.4	23.2	-136.38	64.0	-574.4	1,122.5	1,094.9	27.59	40.686	
8,600.0	8,555.6	7,800.0	7,523.8	18.4	23.2	-136.38	64.0	-574.4	1,166.7	1,139.0	27.76	42.025	
8,645.0	8,600.6	7,800.0	7,523.8	18.4	23.2	-136.38	64.0	-574.4	1,206.9	1,179.0	27.92	43.230	
8,700.0	8,655.6	7,800.0	7,523.8	18.5	23.2	-136.38	64.0	-574.4	1,256.4	1,228.3	28.11	44.703	
8,740.0	8,695.6	7,800.0	7,523.8	18.5	23.2	-136.38	64.0	-574.4	1,292.7	1,264.5	28.24	45.772	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.5	4.5	3.0	3.0	179.08	179.08	-299.9	4.8	299.9				
95.0	95.0	99.5	99.5	3.0	3.0	179.08	179.08	-299.9	4.8	299.9	293.9	6.02	49.839	
100.0	100.0	104.5	104.5	3.0	3.0	179.08	179.08	-299.9	4.8	299.9	293.9	6.02	49.814	
190.0	190.0	194.5	194.5	3.1	3.0	179.08	179.08	-299.9	4.8	299.9	293.8	6.13	48.897	
200.0	200.0	204.5	204.5	3.1	3.0	179.08	179.08	-299.9	4.8	299.9	293.8	6.15	48.752	
285.0	285.0	289.5	289.5	3.3	3.0	179.08	179.08	-299.9	4.8	299.9	293.7	6.27	47.873	
300.0	300.0	304.5	304.5	3.3	3.0	179.08	179.08	-299.9	4.8	299.9	293.7	6.29	47.698	
380.0	380.0	384.5	384.5	3.4	3.0	179.08	179.08	-299.9	4.8	299.9	293.5	6.40	46.874	
400.0	400.0	404.5	404.5	3.4	3.0	179.08	179.08	-299.9	4.8	299.9	293.5	6.43	46.654	
475.0	475.0	479.5	479.5	3.5	3.0	179.08	179.08	-299.9	4.8	299.9	293.4	6.54	45.888	
500.0	500.0	504.5	504.5	3.5	3.1	179.08	179.08	-299.9	4.8	299.9	293.4	6.57	45.622	
570.0	570.0	574.5	574.5	3.6	3.1	179.08	179.08	-299.9	4.8	299.9	293.3	6.68	44.914	
600.0	600.0	604.5	604.5	3.6	3.1	179.08	179.08	-299.9	4.8	299.9	293.2	6.72	44.603	
665.0	665.0	669.5	669.5	3.7	3.1	179.08	179.08	-299.9	4.8	299.9	293.1	6.82	43.954	
700.0	700.0	704.5	704.5	3.8	3.1	179.08	179.08	-299.9	4.8	299.9	293.1	6.88	43.598	
760.0	760.0	764.5	764.5	3.8	3.1	179.08	179.08	-299.9	4.8	299.9	293.0	6.97	43.009	
800.0	800.0	804.5	804.5	3.9	3.2	179.08	179.08	-299.9	4.8	299.9	292.9	7.04	42.611	
855.0	855.0	859.5	859.5	4.0	3.2	179.08	179.08	-299.9	4.8	299.9	292.8	7.13	42.079	
900.0	900.0	904.5	904.5	4.0	3.2	179.08	179.08	-299.9	4.8	299.9	292.7	7.20	41.641	
950.0	950.0	954.5	954.5	4.1	3.2	179.08	179.08	-299.9	4.8	299.9	292.7	7.29	41.167	
1,000.0	1,000.0	1,004.5	1,004.5	4.1	3.2	179.08	179.08	-299.9	4.8	299.9	292.6	7.37	40.691	
1,045.0	1,045.0	1,049.5	1,049.5	4.2	3.3	179.08	179.08	-299.9	4.8	299.9	292.5	7.45	40.273	
1,100.0	1,100.0	1,104.5	1,104.5	4.2	3.3	179.08	179.08	-299.9	4.8	299.9	292.4	7.54	39.762	
1,140.0	1,140.0	1,144.5	1,144.5	4.3	3.3	179.08	179.08	-299.9	4.8	299.9	292.3	7.61	39.398	
1,200.0	1,200.0	1,204.5	1,204.5	4.4	3.4	179.08	179.08	-299.9	4.8	299.9	292.2	7.72	38.854	
1,235.0	1,235.0	1,239.5	1,239.5	4.4	3.4	179.08	179.08	-299.9	4.8	299.9	292.2	7.78	38.543	
1,300.0	1,300.0	1,304.5	1,304.5	4.5	3.4	179.08	179.08	-299.9	4.8	299.9	292.0	7.90	37.969	
1,330.0	1,330.0	1,334.5	1,334.5	4.5	3.4	179.08	179.08	-299.9	4.8	299.9	292.0	7.95	37.709	
1,400.0	1,400.0	1,404.5	1,404.5	4.6	3.5	179.08	179.08	-299.9	4.8	299.9	291.9	8.08	37.106	
1,425.0	1,425.0	1,429.5	1,429.5	4.6	3.5	179.08	179.08	-299.9	4.8	299.9	291.8	8.13	36.896	
1,500.0	1,500.0	1,504.5	1,504.5	4.7	3.5	179.08	179.08	-299.9	4.8	299.9	291.7	8.27	36.268	
1,520.0	1,520.0	1,524.5	1,524.5	4.8	3.6	-156.47	-156.47	-299.9	4.8	300.0	291.7	8.32	36.055	
1,600.0	1,600.0	1,604.5	1,604.5	4.9	3.6	-156.58	-156.58	-299.9	4.8	301.5	293.0	8.53	35.362	
1,615.0	1,615.0	1,619.5	1,619.5	4.9	3.6	-156.62	-156.62	-299.9	4.8	302.1	293.5	8.58	35.225	
1,700.0	1,699.8	1,704.3	1,704.3	5.2	3.7	-156.93	-156.93	-299.9	4.8	306.3	297.5	8.85	34.611	
1,710.0	1,709.8	1,714.3	1,714.3	5.2	3.7	-156.98	-156.98	-299.9	4.8	307.0	298.1	8.88	34.554	
1,800.0	1,799.5	1,804.0	1,804.0	5.4	3.8	-157.49	-157.49	-299.9	4.8	314.4	305.2	9.19	34.199	
1,805.0	1,804.4	1,808.9	1,808.9	5.5	3.8	-157.52	-157.52	-299.9	4.8	314.9	305.7	9.21	34.185	
1,900.0	1,898.7	1,903.2	1,903.2	5.7	3.9	-158.23	-158.23	-299.9	4.8	325.7	316.1	9.56	34.083	
1,995.0	1,992.5	1,997.0	1,997.0	6.0	3.9	-159.05	-159.05	-299.9	4.8	339.5	329.6	9.92	34.214	
2,000.0	1,997.5	2,002.2	2,002.2	6.1	3.9	-159.10	-159.10	-299.9	4.8	340.3	330.3	9.95	34.215	
2,050.0	2,046.6	2,058.1	2,058.1	6.2	4.1	-159.66	-159.66	-299.3	4.8	348.3	338.1	10.18	34.221	
2,090.0	2,085.9	2,103.1	2,103.1	6.2	4.2	-160.16	-160.16	-298.0	4.8	354.4	344.0	10.37	34.181	
2,100.0	2,095.7	2,114.4	2,114.4	6.3	4.2	-160.29	-160.29	-297.6	4.8	355.8	345.4	10.42	34.140	
2,185.0	2,179.1	2,210.6	2,210.6	6.5	4.5	-161.34	-161.34	-292.2	4.8	366.4	355.5	10.95	33.462	
2,200.0	2,193.9	2,227.6	2,227.6	6.5	4.6	-161.52	-161.52	-290.9	4.8	368.0	357.0	11.04	33.320	
2,280.0	2,272.4	2,318.9	2,318.2	6.8	4.9	-162.52	-162.52	-282.2	4.9	375.0	363.5	11.57	32.419	
2,300.0	2,292.0	2,341.8	2,341.0	6.8	5.0	-162.77	-162.77	-279.5	4.9	376.4	364.7	11.70	32.167	
2,375.0	2,365.7	2,427.7	2,426.1	7.1	5.2	-163.73	-163.73	-268.0	5.0	380.2	368.0	12.22	31.124	
2,400.0	2,390.2	2,456.4	2,454.5	7.2	5.4	-164.06	-164.06	-263.6	5.0	381.0	368.6	12.39	30.749	
2,470.0	2,458.9	2,536.8	2,533.6	7.4	5.6	-165.01	-165.01	-249.8	5.0	382.0	369.1	12.86	29.696	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-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	
2,500.0	2,488.4	2,571.2	2,567.4	7.5	5.7	-165.43	-243.1	5.1	381.8	368.8	13.05	29.258
2,565.0	2,552.2	2,636.5	2,631.4	7.7	5.9	-166.25	-230.1	5.1	381.0	367.6	13.45	28.324
2,600.0	2,586.5	2,671.4	2,665.6	7.9	6.0	-166.68	-223.2	5.2	380.7	367.0	13.69	27.810
2,660.0	2,645.4	2,731.1	2,724.2	8.1	6.2	-167.43	-211.2	5.2	380.1	366.0	14.10	26.952
2,700.0	2,684.7	2,771.0	2,763.2	8.2	6.3	-167.93	-203.3	5.3	379.7	365.3	14.38	26.402
2,755.0	2,738.7	2,825.8	2,816.9	8.4	6.5	-168.63	-192.4	5.3	379.3	364.5	14.78	25.670
2,800.0	2,782.8	2,870.7	2,860.9	8.6	6.7	-169.19	-183.4	5.4	379.0	363.9	15.10	25.096
2,850.0	2,831.9	2,920.5	2,909.7	8.8	6.8	-169.82	-173.5	5.4	378.7	363.2	15.47	24.479
2,900.0	2,881.0	2,970.3	2,958.5	9.0	7.0	-170.46	-163.5	5.5	378.4	362.6	15.84	23.889
2,945.0	2,925.2	3,015.1	3,002.4	9.1	7.2	-171.03	-154.6	5.5	378.2	362.0	16.18	23.378
3,000.0	2,979.2	3,069.9	3,056.2	9.4	7.4	-171.72	-143.7	5.6	378.0	361.4	16.59	22.781
3,040.0	3,018.4	3,109.8	3,095.2	9.5	7.5	-172.23	-135.7	5.6	377.9	361.0	16.90	22.364
3,100.0	3,077.3	3,169.6	3,153.8	9.7	7.7	-172.99	-123.8	5.7	377.8	360.4	17.36	21.765
3,135.0	3,111.7	3,204.5	3,188.0	9.9	7.9	-173.43	-116.8	5.7	377.8	360.1	17.63	21.430
3,159.8	3,136.0	3,229.1	3,212.1	10.0	8.0	-173.75	-111.9	5.7	377.8	359.9	17.82	21.200
3,200.0	3,175.5	3,269.2	3,251.4	10.1	8.1	-174.26	-103.9	5.8	377.8	359.6	18.13	20.836
3,230.0	3,205.0	3,299.1	3,280.7	10.3	8.3	-174.64	-98.0	5.8	377.8	359.4	18.36	20.574
3,300.0	3,273.7	3,368.9	3,349.1	10.6	8.5	-175.53	-84.1	5.8	377.9	359.0	18.91	19.988
3,325.0	3,298.2	3,393.8	3,373.5	10.7	8.6	-175.84	-79.1	5.9	378.0	358.9	19.10	19.788
3,400.0	3,371.8	3,468.5	3,446.7	11.0	8.9	-176.79	-64.2	5.9	378.3	358.6	19.69	19.214
3,420.0	3,391.5	3,488.5	3,466.3	11.0	9.0	-177.05	-60.2	6.0	378.4	358.5	19.84	19.068
3,500.0	3,470.0	3,568.2	3,544.4	11.4	9.3	-178.06	-44.3	6.0	378.8	358.4	20.47	18.509
3,515.0	3,484.7	3,583.1	3,559.0	11.4	9.4	-178.25	-41.3	6.1	378.9	358.4	20.59	18.408
3,600.0	3,568.2	3,667.8	3,642.0	11.8	9.8	-179.32	-24.4	6.1	379.6	358.3	21.25	17.866
3,610.0	3,578.0	3,677.8	3,651.8	11.8	9.8	-179.44	-22.4	6.1	379.6	358.3	21.32	17.805
3,700.0	3,666.3	3,767.5	3,739.7	12.2	10.2	-179.43	-4.6	6.2	380.5	358.5	22.02	17.280
3,705.0	3,671.2	3,772.5	3,744.5	12.2	10.2	-179.37	-3.6	6.2	380.5	358.5	22.06	17.252
3,800.0	3,764.5	3,867.1	3,837.3	12.6	10.6	-178.18	15.3	6.3	381.6	358.8	22.78	16.747
3,895.0	3,857.7	3,961.8	3,930.1	13.1	11.0	-177.00	34.2	6.4	382.8	359.3	23.51	16.284
3,900.0	3,862.6	3,966.8	3,935.0	13.1	11.0	-176.94	35.2	6.4	382.8	359.3	23.54	16.261
3,990.0	3,951.0	4,056.5	4,022.8	13.5	11.4	-175.83	53.1	6.5	384.1	359.9	24.22	15.862
4,000.0	3,960.8	4,066.4	4,032.6	13.5	11.5	-175.71	55.1	6.5	384.3	360.0	24.29	15.819
4,085.0	4,044.2	4,151.1	4,115.6	13.9	11.8	-174.67	72.0	6.6	385.7	360.7	24.92	15.476
4,097.4	4,056.4	4,163.5	4,127.7	13.9	11.9	-174.52	74.4	6.6	385.9	360.9	25.01	15.429
4,100.0	4,059.0	4,166.1	4,130.2	13.9	11.9	-174.49	74.9	6.6	385.9	360.9	25.03	15.419
4,180.0	4,137.7	4,245.8	4,208.4	14.3	12.2	-173.50	90.8	6.7	386.2	360.5	25.63	15.068
4,200.0	4,157.5	4,265.7	4,227.9	14.4	12.3	-173.25	94.8	6.7	385.9	360.1	25.78	14.971
4,275.0	4,231.7	4,340.4	4,301.1	14.7	12.7	-172.27	109.7	6.8	383.7	357.4	26.31	14.587
4,300.0	4,256.5	4,365.3	4,325.4	14.8	12.8	-171.93	114.7	6.8	382.6	356.1	26.48	14.449
4,370.0	4,326.1	4,434.8	4,393.6	15.1	13.1	-170.93	128.5	6.9	378.4	351.4	26.94	14.048
4,400.0	4,356.0	4,464.6	4,422.8	15.3	13.2	-170.49	134.5	6.9	376.1	349.0	27.13	13.865
4,465.0	4,420.8	4,529.0	4,485.9	15.5	13.5	-169.46	147.3	7.0	370.1	342.6	27.50	13.460
4,500.0	4,455.7	4,563.6	4,519.8	15.6	13.6	-168.88	154.2	7.0	366.4	338.7	27.69	13.230
4,560.0	4,515.7	4,622.8	4,577.8	15.8	13.9	-167.81	166.0	7.1	359.1	331.1	27.97	12.836
4,600.0	4,555.6	4,662.1	4,616.4	16.0	14.1	-167.05	173.9	7.1	353.6	325.4	28.15	12.561
4,647.4	4,603.0	4,708.6	4,661.9	16.0	14.3	-141.62	183.1	7.1	346.5	318.2	28.25	12.264
4,655.0	4,610.6	4,716.1	4,669.2	16.0	14.3	-141.47	184.6	7.2	345.3	317.0	28.26	12.219
4,700.0	4,655.6	4,760.2	4,712.4	16.1	14.5	-140.52	193.4	7.2	338.3	310.0	28.29	11.957
4,750.0	4,705.6	4,809.2	4,760.5	16.1	14.7	-139.43	203.2	7.2	330.6	302.3	28.33	11.671
4,800.0	4,755.6	4,858.2	4,808.5	16.1	15.0	-138.28	213.0	7.3	323.1	294.7	28.34	11.399
4,845.0	4,800.6	4,902.3	4,851.7	16.1	15.2	-137.20	221.8	7.3	316.4	288.1	28.34	11.164

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
4,900.0	4,855.6	4,956.2	4,904.5	16.2	15.4	135.82	232.5	7.4	308.4	280.1	28.31	10.893	
4,940.0	4,895.6	4,995.4	4,942.9	16.2	15.6	134.78	240.3	7.4	302.7	274.4	28.28	10.705	
5,000.0	4,955.6	5,054.2	5,000.5	16.2	15.8	133.13	252.1	7.5	294.3	266.2	28.19	10.442	
5,035.0	4,990.6	5,088.5	5,034.1	16.2	16.0	132.13	258.9	7.5	289.6	261.5	28.12	10.298	
5,100.0	5,055.6	5,152.2	5,096.5	16.3	16.3	130.18	271.6	7.6	281.0	253.0	27.96	10.051	
5,130.0	5,085.6	5,181.6	5,125.3	16.3	16.4	129.25	277.5	7.6	277.2	249.3	27.87	9.946	
5,200.0	5,155.6	5,250.1	5,192.6	16.3	16.7	126.96	291.1	7.7	268.5	240.9	27.61	9.725	
5,225.0	5,180.6	5,274.6	5,216.6	16.4	16.8	126.11	296.0	7.7	265.5	238.0	27.50	9.654	
5,300.0	5,255.6	5,348.1	5,288.6	16.4	17.2	123.44	310.7	7.8	256.9	229.8	27.13	9.470	
5,320.0	5,275.6	5,367.7	5,307.8	16.4	17.3	122.70	314.6	7.8	254.7	227.7	27.02	9.428	
5,400.0	5,355.6	5,446.1	5,384.6	16.5	17.6	119.62	330.2	7.9	246.4	219.9	26.51	9.293	
5,415.0	5,370.6	5,460.8	5,399.0	16.5	17.7	119.01	333.2	7.9	244.9	218.5	26.41	9.274	
5,500.0	5,455.6	5,544.1	5,480.6	16.5	18.1	115.48	349.8	8.0	237.1	211.3	25.77	9.200	
5,510.0	5,465.6	5,553.9	5,490.2	16.5	18.1	115.05	351.7	8.0	236.3	210.6	25.69	9.195	
5,600.0	5,555.6	5,642.1	5,576.6	16.6	18.5	111.04	369.3	8.0	229.2	204.3	24.93	9.192	
5,605.0	5,560.6	5,647.0	5,581.4	16.6	18.5	110.81	370.3	8.1	228.8	203.9	24.89	9.194	
5,700.0	5,655.6	5,740.1	5,672.7	16.6	19.0	106.33	388.9	8.1	222.8	198.7	24.04	9.265	
5,795.0	5,750.6	5,833.0	5,763.7	16.7	19.4	101.65	407.4	8.2	218.2	195.0	23.21	9.400	
5,800.0	5,755.6	5,837.9	5,768.5	16.7	19.4	101.40	408.3	8.2	218.0	194.8	23.17	9.409	
5,890.0	5,845.6	5,925.4	5,854.5	16.7	19.8	97.31	424.0	8.3	215.4	192.8	22.57	9.544	
5,900.0	5,855.6	5,935.1	5,864.2	16.8	19.9	96.89	425.6	8.3	215.2	192.7	22.52	9.557	
5,985.0	5,940.6	6,018.7	5,946.8	16.8	20.2	93.63	437.8	8.4	214.1	191.9	22.21	9.641	
6,000.0	5,955.6	6,033.5	5,961.5	16.8	20.3	93.12	439.7	8.4	214.0	191.8	22.17	9.652	
6,080.0	6,035.6	6,112.8	6,040.3	16.9	20.6	90.72	448.7	8.4	213.7	191.7	22.07	9.686	
6,097.1	6,052.8	6,129.8	6,057.3	16.9	20.7	90.28	450.4	8.4	213.7	191.7	22.06	9.689	
6,100.0	6,055.6	6,132.7	6,060.1	16.9	20.7	90.21	450.6	8.4	213.7	191.7	22.06	9.690	
6,175.0	6,130.6	6,207.6	6,134.7	16.9	21.0	88.61	456.6	8.5	213.8	191.8	22.08	9.684	
6,200.0	6,155.6	6,232.6	6,159.7	16.9	21.1	88.20	458.1	8.5	213.9	191.8	22.10	9.678	
6,270.0	6,225.6	6,302.7	6,229.8	17.0	21.4	87.34	461.3	8.5	214.0	191.8	22.18	9.647	
6,300.0	6,255.6	6,332.8	6,259.9	17.0	21.4	87.12	462.2	8.5	214.1	191.8	22.23	9.631	
6,365.0	6,320.6	6,398.1	6,325.1	17.0	21.6	86.92	462.9	8.5	214.1	191.8	22.33	9.587	
6,376.6	6,332.3	6,409.7	6,336.8	17.0	21.6	86.92	462.9	8.5	214.1	191.8	22.35	9.579	
6,400.0	6,355.6	6,433.1	6,360.1	17.0	21.6	86.92	462.9	8.5	214.1	191.7	22.39	9.562	
6,460.0	6,415.6	6,493.1	6,420.1	17.1	21.6	86.92	462.9	8.5	214.1	191.6	22.49	9.518	
6,500.0	6,455.6	6,533.1	6,460.1	17.1	21.6	86.92	462.9	8.5	214.1	191.5	22.56	9.489	
6,555.0	6,510.6	6,588.1	6,515.1	17.1	21.6	86.92	462.9	8.5	214.1	191.5	22.66	9.450	
6,600.0	6,555.6	6,633.1	6,560.1	17.2	21.7	86.92	462.9	8.5	214.1	191.4	22.73	9.418	
6,650.0	6,605.6	6,683.1	6,610.1	17.2	21.7	86.92	462.9	8.5	214.1	191.3	22.82	9.382	
6,700.0	6,655.6	6,733.1	6,660.1	17.2	21.7	86.92	462.9	8.5	214.1	191.2	22.91	9.347	
6,745.0	6,700.6	6,778.1	6,705.1	17.3	21.7	86.92	462.9	8.5	214.1	191.1	22.98	9.316	
6,800.0	6,755.6	6,833.1	6,760.1	17.3	21.8	86.92	462.9	8.5	214.1	191.0	23.08	9.278	
6,840.0	6,795.6	6,873.1	6,800.1	17.3	21.8	86.92	462.9	8.5	214.1	191.0	23.15	9.251	
6,900.0	6,855.6	6,933.1	6,860.1	17.4	21.8	86.92	462.9	8.5	214.1	190.9	23.25	9.210	
6,935.0	6,890.6	6,968.1	6,895.1	17.4	21.8	86.92	462.9	8.5	214.1	190.8	23.31	9.186	
7,000.0	6,955.6	7,033.1	6,960.1	17.4	21.9	86.92	462.9	8.5	214.1	190.7	23.42	9.142	
7,030.0	6,985.6	7,063.1	6,990.1	17.4	21.9	86.92	462.9	8.5	214.1	190.6	23.47	9.123	
7,100.0	7,055.6	7,133.1	7,060.1	17.5	21.9	86.92	462.9	8.5	214.1	190.5	23.59	9.076	
7,125.0	7,080.6	7,158.1	7,085.1	17.5	21.9	86.92	462.9	8.5	214.1	190.5	23.63	9.060	
7,200.0	7,155.6	7,233.1	7,160.1	17.5	22.0	86.92	462.9	8.5	214.1	190.3	23.76	9.011	
7,220.0	7,175.6	7,253.1	7,180.1	17.6	22.0	86.92	462.9	8.5	214.1	190.3	23.79	8.998	
7,300.0	7,255.6	7,333.1	7,260.1	17.6	22.0	86.92	462.9	8.5	214.1	190.2	23.93	8.947	

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,315.0	7,270.6	7,348.1	7,275.1	17.6	22.0	86.92	462.9	8.5	214.1	190.2	23.96	8.937		
7,400.0	7,355.6	7,433.1	7,360.1	17.7	22.0	86.92	462.9	8.5	214.1	190.0	24.09	8.889		
7,410.0	7,365.6	7,443.1	7,370.1	17.7	22.0	86.92	462.9	8.5	214.1	190.0	24.10	8.884		
7,500.0	7,455.6	7,534.4	7,461.2	17.7	22.1	88.25	457.9	8.5	213.9	189.6	24.26	8.816		
7,505.0	7,460.6	7,539.4	7,466.2	17.7	22.1	88.43	457.3	8.5	213.8	189.6	24.27	8.810		
7,548.2	7,503.8	7,582.2	7,508.3	17.8	22.2	90.45	449.7	8.4	213.7	189.3	24.45	8.742 CC, ES		
7,600.0	7,555.6	7,631.8	7,556.2	17.8	22.2	93.84	437.0	8.3	214.1	189.3	24.80	8.633		
7,695.0	7,650.6	7,715.8	7,634.3	17.8	22.3	101.93	406.3	8.1	219.1	193.1	25.97	8.433		
7,700.0	7,655.6	7,719.9	7,638.0	17.8	22.3	102.39	404.5	8.0	219.5	193.5	26.05	8.427 SF		
7,790.0	7,745.6	7,789.4	7,698.5	17.9	22.4	110.85	370.2	7.8	233.8	206.2	27.54	8.488		
7,800.0	7,755.6	7,800.0	7,707.3	17.9	22.4	112.22	364.4	7.7	236.1	208.2	27.86	8.475		
7,885.0	7,840.6	7,850.0	7,747.4	18.0	22.5	118.77	334.6	7.5	261.7	233.0	28.70	9.117		
7,900.0	7,855.6	7,861.6	7,756.3	18.0	22.5	120.29	327.2	7.4	267.3	238.4	28.97	9.228		
7,980.0	7,935.6	7,900.0	7,784.8	18.0	22.5	125.21	301.4	7.2	303.0	273.8	29.20	10.376		
8,000.0	7,955.6	7,916.3	7,796.3	18.0	22.6	127.24	289.9	7.1	313.1	283.6	29.54	10.602		
8,075.0	8,030.6	7,950.0	7,819.1	18.1	22.6	131.28	265.1	6.9	355.6	326.0	29.58	12.022		
8,100.0	8,055.6	7,961.9	7,826.8	18.1	22.6	132.65	256.0	6.9	371.0	341.4	29.62	12.526		
8,170.0	8,125.6	7,989.5	7,843.9	18.1	22.6	135.67	234.4	6.7	417.1	387.5	29.55	14.117		
8,200.0	8,155.6	8,000.0	7,850.2	18.2	22.6	136.78	225.9	6.6	438.0	408.5	29.49	14.850		
8,265.0	8,220.6	8,021.9	7,862.7	18.2	22.7	138.98	207.9	6.5	485.3	455.9	29.41	16.501		
8,300.0	8,255.6	8,032.7	7,868.5	18.2	22.7	140.02	198.9	6.4	511.8	482.4	29.37	17.427		
8,360.0	8,315.6	8,050.0	7,877.7	18.3	22.7	141.63	184.2	6.3	558.5	529.2	29.31	19.055		
8,400.0	8,355.6	8,050.0	7,877.7	18.3	22.7	141.63	184.2	6.3	590.7	561.6	29.08	20.312		
8,455.0	8,410.6	8,073.6	7,889.4	18.3	22.7	143.69	163.7	6.1	635.5	606.3	29.26	21.723		
8,500.0	8,455.6	8,083.7	7,894.1	18.4	22.7	144.53	154.7	6.1	673.1	643.8	29.25	23.008		
8,550.0	8,505.6	8,100.0	7,901.4	18.4	22.7	145.83	140.2	5.9	715.5	686.2	29.35	24.377		
8,600.0	8,555.6	8,100.0	7,901.4	18.4	22.7	145.83	140.2	5.9	758.5	729.3	29.25	25.935		
8,645.0	8,600.6	8,100.0	7,901.4	18.4	22.7	145.83	140.2	5.9	797.9	768.7	29.19	27.331		
8,700.0	8,655.6	8,121.8	7,910.6	18.5	22.7	147.47	120.4	5.8	846.1	816.7	29.40	28.777		
8,740.0	8,695.6	8,128.3	7,913.2	18.5	22.7	147.94	114.5	5.7	881.7	852.2	29.46	29.931		
8,800.0	8,755.6	8,150.0	7,921.3	18.5	22.8	149.43	94.4	5.6	935.7	906.1	29.67	31.539		
8,835.0	8,790.6	8,150.0	7,921.3	18.6	22.8	149.43	94.4	5.6	967.2	937.6	29.68	32.589		
8,900.0	8,855.6	8,150.0	7,921.3	18.6	22.8	149.43	94.4	5.6	1,026.3	996.6	29.73	34.523		
8,930.0	8,885.6	8,150.0	7,921.3	18.6	22.8	149.43	94.4	5.6	1,053.9	1,024.1	29.76	35.408		
9,000.0	8,955.6	8,150.0	7,921.3	18.7	22.8	149.43	94.4	5.6	1,118.5	1,088.7	29.86	37.454		
9,025.0	8,980.6	8,150.0	7,921.3	18.7	22.8	149.43	94.4	5.6	1,141.8	1,111.9	29.91	38.178		
9,100.0	9,055.6	8,174.1	7,929.4	18.7	22.8	150.98	71.6	5.4	1,211.2	1,181.1	30.19	40.116		
9,120.0	9,075.6	8,176.2	7,930.1	18.8	22.8	151.10	69.7	5.4	1,229.9	1,199.7	30.24	40.667		
9,200.0	9,155.6	8,200.0	7,937.1	18.8	22.8	152.51	46.9	5.2	1,305.3	1,274.8	30.54	42.739		
9,215.0	9,170.6	8,200.0	7,937.1	18.8	22.8	152.51	46.9	5.2	1,319.4	1,288.8	30.57	43.156		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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	4.6	4.6	3.0	3.0	148.09	-148.4	92.4	174.8				
95.0	95.0	99.6	99.6	3.0	3.0	148.09	-148.4	92.4	174.8	168.8	6.04	28.952	
100.0	100.0	104.6	104.6	3.0	3.0	148.09	-148.4	92.4	174.8	168.8	6.04	28.921	
190.0	190.0	194.6	194.6	3.1	3.1	148.09	-148.4	92.4	174.8	168.6	6.26	27.906	
200.0	200.0	204.6	204.6	3.1	3.2	148.09	-148.4	92.4	174.8	168.5	6.30	27.765	
285.0	285.0	289.6	289.6	3.3	3.3	148.09	-148.4	92.4	174.8	168.3	6.50	26.884	
300.0	300.0	304.6	304.6	3.3	3.3	148.09	-148.4	92.4	174.8	168.3	6.54	26.719	
380.0	380.0	384.6	384.6	3.4	3.4	148.09	-148.4	92.4	174.8	168.1	6.73	25.959	
400.0	400.0	404.6	404.6	3.4	3.4	148.09	-148.4	92.4	174.8	168.0	6.79	25.764	
475.0	475.0	479.6	479.6	3.5	3.5	148.09	-148.4	92.4	174.8	167.9	6.96	25.107	
500.0	500.0	504.6	504.6	3.5	3.5	148.09	-148.4	92.4	174.8	167.8	7.02	24.886	
570.0	570.0	574.6	574.6	3.6	3.6	148.09	-148.4	92.4	174.8	167.6	7.19	24.319	
600.0	600.0	604.6	604.6	3.6	3.6	148.09	-148.4	92.4	174.8	167.6	7.26	24.076	
665.0	665.0	669.6	669.6	3.7	3.7	148.09	-148.4	92.4	174.8	167.4	7.41	23.588	
700.0	700.0	704.6	704.6	3.8	3.8	148.09	-148.4	92.4	174.8	167.3	7.49	23.326	
760.0	760.0	764.6	764.6	3.8	3.8	148.09	-148.4	92.4	174.8	167.2	7.63	22.905	
800.0	800.0	804.6	804.6	3.9	3.9	148.09	-148.4	92.4	174.8	167.1	7.73	22.627	
855.0	855.0	859.6	859.6	4.0	4.0	148.09	-148.4	92.4	174.8	167.0	7.85	22.267	
900.0	900.0	904.6	904.6	4.0	4.0	148.09	-148.4	92.4	174.8	166.9	7.95	21.976	
950.0	950.0	954.6	954.6	4.1	4.1	148.09	-148.4	92.4	174.8	166.7	8.07	21.669	
1,000.0	1,000.0	1,004.6	1,004.6	4.1	4.1	148.09	-148.4	92.4	174.8	166.6	8.18	21.366	
1,045.0	1,045.0	1,049.6	1,049.6	4.2	4.2	148.09	-148.4	92.4	174.8	166.5	8.28	21.106	
1,100.0	1,100.0	1,104.6	1,104.6	4.2	4.3	148.09	-148.4	92.4	174.8	166.4	8.41	20.794	
1,140.0	1,140.0	1,144.6	1,144.6	4.3	4.3	148.09	-148.4	92.4	174.8	166.3	8.50	20.576	
1,200.0	1,200.0	1,204.6	1,204.6	4.4	4.4	148.09	-148.4	92.4	174.8	166.2	8.63	20.255	
1,235.0	1,235.0	1,239.6	1,239.6	4.4	4.4	148.09	-148.4	92.4	174.8	166.1	8.71	20.076	
1,300.0	1,300.0	1,304.6	1,304.6	4.5	4.5	148.09	-148.4	92.4	174.8	166.0	8.85	19.747	
1,330.0	1,330.0	1,334.6	1,334.6	4.5	4.5	148.09	-148.4	92.4	174.8	165.9	8.92	19.602	
1,400.0	1,400.0	1,404.6	1,404.6	4.6	4.6	148.09	-148.4	92.4	174.8	165.7	9.07	19.267	
1,425.0	1,425.0	1,429.6	1,429.6	4.6	4.6	148.09	-148.4	92.4	174.8	165.7	9.13	19.152	
1,500.0	1,500.0	1,504.6	1,504.6	4.7	4.7	148.09	-148.4	92.4	174.8	165.5	9.29	18.811	
1,500.1	1,500.1	1,504.7	1,504.7	4.7	4.7	148.09	-148.4	92.4	174.8	165.5	9.29	18.810 CC, ES	
1,520.0	1,520.0	1,524.6	1,524.6	4.8	4.8	172.52	-148.3	92.5	174.9	165.5	9.35	18.701	
1,600.0	1,600.0	1,604.7	1,604.7	4.9	4.9	172.00	-147.3	94.0	176.5	166.9	9.58	18.425	
1,615.0	1,615.0	1,619.7	1,619.7	4.9	4.9	171.83	-147.0	94.5	177.1	167.4	9.64	18.366	
1,700.0	1,699.8	1,704.5	1,704.3	5.2	5.1	170.51	-144.4	98.5	181.7	171.7	9.98	18.194	
1,710.0	1,709.8	1,714.4	1,714.2	5.2	5.1	170.32	-144.0	99.1	182.4	172.4	10.03	18.191	
1,800.0	1,799.5	1,803.6	1,803.1	5.4	5.3	168.25	-139.6	105.8	190.5	180.1	10.39	18.331	
1,805.0	1,804.4	1,808.6	1,808.0	5.5	5.4	168.13	-139.3	106.3	191.0	180.6	10.41	18.346	
1,900.0	1,898.7	1,901.9	1,900.6	5.7	5.6	165.46	-132.9	115.9	203.3	192.5	10.81	18.810	
1,995.0	1,992.5	1,994.1	1,991.6	6.0	5.9	162.52	-125.0	127.9	219.3	208.1	11.21	19.562	
2,000.0	1,997.5	1,998.9	1,996.4	6.1	5.9	162.36	-124.6	128.6	220.2	209.0	11.23	19.610	
2,050.0	2,046.6	2,046.9	2,043.5	6.2	6.1	160.78	-119.8	135.9	230.3	218.9	11.38	20.229	
2,090.0	2,085.9	2,085.1	2,081.0	6.2	6.2	159.54	-115.7	142.1	238.9	227.4	11.51	20.764	
2,100.0	2,095.7	2,094.6	2,090.3	6.3	6.3	159.23	-114.6	143.8	241.1	229.6	11.54	20.899	
2,185.0	2,179.1	2,174.9	2,168.7	6.5	6.6	156.53	-104.9	158.5	260.3	248.4	11.87	21.934	
2,200.0	2,193.9	2,189.0	2,182.4	6.5	6.6	156.04	-103.1	161.3	263.8	251.9	11.93	22.121	
2,280.0	2,272.4	2,265.5	2,256.6	6.8	6.8	153.52	-92.9	176.7	282.9	270.7	12.26	23.083	
2,300.0	2,292.0	2,284.7	2,275.3	6.8	6.9	152.94	-90.4	180.6	287.8	275.4	12.34	23.319	
2,375.0	2,365.7	2,356.7	2,345.1	7.1	7.1	150.92	-80.8	195.2	306.2	293.6	12.67	24.167	
2,400.0	2,390.2	2,380.7	2,368.4	7.2	7.2	150.30	-77.6	200.0	312.5	299.7	12.78	24.443	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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		
2,470.0	2,458.9	2,447.9	2,433.6	7.4	7.4	148.68	-68.7	213.6	330.1	316.9	13.11	25.182			
2,500.0	2,488.4	2,476.6	2,461.5	7.5	7.5	148.04	-64.9	219.4	337.7	324.4	13.25	25.489			
2,565.0	2,552.2	2,539.0	2,522.0	7.7	7.8	146.74	-56.6	232.0	354.3	340.7	13.56	26.124			
2,600.0	2,586.5	2,572.6	2,554.6	7.9	7.9	146.10	-52.1	238.8	363.3	349.6	13.73	26.455			
2,660.0	2,645.4	2,630.2	2,610.5	8.1	8.1	145.05	-44.5	250.4	378.9	364.8	14.03	26.997			
2,700.0	2,684.7	2,668.6	2,647.7	8.2	8.2	144.41	-39.4	258.2	389.3	375.1	14.24	27.346			
2,755.0	2,738.7	2,721.3	2,698.9	8.4	8.4	143.57	-32.3	268.8	403.7	389.2	14.52	27.804			
2,800.0	2,782.8	2,764.5	2,740.8	8.6	8.6	142.93	-26.6	277.6	415.6	400.8	14.75	28.164			
2,850.0	2,831.9	2,812.5	2,787.4	8.8	8.8	142.25	-20.2	287.3	428.8	413.8	15.02	28.548			
2,900.0	2,881.0	2,860.5	2,833.9	9.0	9.0	141.62	-13.8	296.9	442.1	426.8	15.29	28.916			
2,945.0	2,925.2	2,903.7	2,875.8	9.1	9.2	141.08	-8.1	305.7	454.0	438.5	15.53	29.233			
3,000.0	2,979.2	2,956.5	2,927.1	9.4	9.4	140.46	-1.1	316.3	468.7	452.9	15.83	29.605			
3,040.0	3,018.4	2,994.8	2,964.3	9.5	9.5	140.03	4.0	324.1	479.5	463.4	16.05	29.865			
3,100.0	3,077.3	3,052.4	3,020.2	9.7	9.8	139.43	11.7	335.7	495.6	479.2	16.39	30.239			
3,135.0	3,111.7	3,086.0	3,052.8	9.9	9.9	139.09	16.1	342.5	505.0	488.4	16.59	30.448			
3,200.0	3,175.5	3,148.4	3,113.3	10.1	10.2	138.50	24.4	355.1	522.6	505.6	16.95	30.821			
3,230.0	3,205.0	3,177.2	3,141.2	10.3	10.3	138.24	28.3	360.9	530.7	513.6	17.13	30.987			
3,300.0	3,273.7	3,244.3	3,206.4	10.6	10.6	137.66	37.2	374.5	549.7	532.1	17.53	31.357			
3,325.0	3,298.2	3,268.3	3,229.7	10.7	10.7	137.47	40.4	379.4	556.5	538.8	17.67	31.484			
3,400.0	3,371.8	3,340.3	3,299.5	11.0	11.0	136.90	49.9	393.9	576.9	558.7	18.11	31.851			
3,420.0	3,391.5	3,359.5	3,318.1	11.0	11.1	136.76	52.5	397.8	582.3	564.1	18.23	31.944			
3,500.0	3,470.0	3,436.3	3,392.6	11.4	11.4	136.21	62.7	413.3	604.1	585.4	18.70	32.306			
3,515.0	3,484.7	3,450.7	3,406.6	11.4	11.5	136.11	64.6	416.2	608.2	589.4	18.79	32.371			
3,600.0	3,568.2	3,532.2	3,485.7	11.8	11.8	135.58	75.4	432.7	631.5	612.2	19.30	32.727			
3,610.0	3,578.0	3,541.8	3,495.0	11.8	11.9	135.52	76.7	434.6	634.2	614.9	19.36	32.767			
3,700.0	3,666.3	3,628.2	3,578.8	12.2	12.2	135.00	88.2	452.1	658.9	639.0	19.90	33.117			
3,705.0	3,671.2	3,633.0	3,583.5	12.2	12.3	134.97	88.8	453.0	660.3	640.4	19.93	33.135			
3,800.0	3,764.5	3,724.1	3,672.0	12.6	12.7	134.47	101.0	471.5	686.4	665.9	20.50	33.478			
3,895.0	3,857.7	3,815.3	3,760.4	13.1	13.1	134.00	113.1	489.9	712.5	691.5	21.08	33.798			
3,900.0	3,862.6	3,820.1	3,765.1	13.1	13.1	133.98	113.7	490.8	713.9	692.8	21.11	33.814			
3,990.0	3,951.0	3,906.5	3,848.9	13.5	13.5	133.56	125.2	508.3	738.7	717.1	21.67	34.096			
4,000.0	3,960.8	3,916.1	3,858.2	13.5	13.5	133.52	126.5	510.2	741.5	719.8	21.73	34.126			
4,085.0	4,044.2	3,997.6	3,937.3	13.9	13.9	133.16	137.3	526.7	765.0	742.7	22.25	34.378			
4,097.4	4,056.4	4,009.5	3,948.9	13.9	13.9	133.11	138.9	529.1	768.4	746.1	22.32	34.421			
4,100.0	4,059.0	4,012.0	3,951.3	13.9	13.9	133.11	139.2	529.6	769.1	746.8	22.34	34.433			
4,180.0	4,137.7	4,103.0	4,039.9	14.3	14.4	133.04	150.7	547.0	789.8	766.9	22.91	34.475			
4,200.0	4,157.5	4,126.4	4,062.7	14.4	14.5	133.03	153.3	551.1	794.5	771.5	23.06	34.456			
4,275.0	4,231.7	4,214.7	4,149.4	14.7	14.9	132.96	162.6	565.1	810.5	786.9	23.60	34.340			
4,300.0	4,256.5	4,244.4	4,178.6	14.8	15.0	132.94	165.4	569.3	815.3	791.5	23.78	34.283			
4,370.0	4,326.1	4,328.1	4,261.4	15.1	15.4	132.88	172.3	579.9	826.9	802.7	24.26	34.090			
4,400.0	4,356.0	4,364.2	4,297.2	15.3	15.6	132.85	174.8	583.8	831.2	806.8	24.46	33.987			
4,465.0	4,420.8	4,442.9	4,375.4	15.5	15.9	132.80	179.6	591.0	838.9	814.1	24.86	33.745			
4,500.0	4,455.7	4,485.5	4,417.8	15.6	16.1	132.76	181.7	594.2	842.2	817.1	25.07	33.591			
4,560.0	4,515.7	4,558.7	4,490.9	15.8	16.3	132.71	184.4	598.4	846.4	821.0	25.40	33.330			
4,600.0	4,555.6	4,607.6	4,539.8	16.0	16.5	132.67	185.7	600.3	848.3	822.7	25.61	33.127			
4,647.4	4,603.0	4,665.7	4,597.8	16.0	16.7	108.16	186.6	601.7	849.4	823.6	25.76	32.973			
4,655.0	4,610.6	4,675.0	4,607.1	16.0	16.7	108.16	186.7	601.8	849.5	823.7	25.78	32.950			
4,700.0	4,655.6	4,728.1	4,660.2	16.1	16.8	108.14	186.9	602.1	849.6	823.8	25.86	32.858			
4,750.0	4,705.6	4,778.1	4,710.2	16.1	16.8	108.14	186.9	602.1	849.6	823.7	25.92	32.783			
4,800.0	4,755.6	4,828.1	4,760.2	16.1	16.9	108.14	186.9	602.1	849.6	823.6	25.98	32.704			
4,845.0	4,800.6	4,873.1	4,805.2	16.1	16.9	108.14	186.9	602.1	849.6	823.6	26.04	32.629			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,855.6	4,928.1	4,860.2	16.2	16.9	108.14	186.9	602.1	849.6	823.5	26.11	32.539	
4,940.0	4,895.6	4,968.1	4,900.2	16.2	16.9	108.14	186.9	602.1	849.6	823.5	26.16	32.473	
5,000.0	4,955.6	5,028.1	4,960.2	16.2	17.0	108.14	186.9	602.1	849.6	823.4	26.24	32.374	
5,035.0	4,990.6	5,063.1	4,995.2	16.2	17.0	108.14	186.9	602.1	849.6	823.3	26.29	32.317	
5,100.0	5,055.6	5,128.1	5,060.2	16.3	17.0	108.14	186.9	602.1	849.6	823.2	26.38	32.211	
5,130.0	5,085.6	5,158.1	5,090.2	16.3	17.0	108.14	186.9	602.1	849.6	823.2	26.42	32.163	
5,200.0	5,155.6	5,228.1	5,160.2	16.3	17.1	108.14	186.9	602.1	849.6	823.1	26.51	32.049	
5,225.0	5,180.6	5,253.1	5,185.2	16.4	17.1	108.14	186.9	602.1	849.6	823.1	26.54	32.009	
5,300.0	5,255.6	5,328.1	5,260.2	16.4	17.1	108.14	186.9	602.1	849.6	823.0	26.64	31.889	
5,320.0	5,275.6	5,348.1	5,280.2	16.4	17.1	108.14	186.9	602.1	849.6	823.0	26.67	31.857	
5,400.0	5,355.6	5,428.1	5,360.2	16.5	17.2	108.14	186.9	602.1	849.6	822.8	26.78	31.729	
5,415.0	5,370.6	5,443.1	5,375.2	16.5	17.2	108.14	186.9	602.1	849.6	822.8	26.80	31.706	
5,500.0	5,455.6	5,528.1	5,460.2	16.5	17.2	108.14	186.9	602.1	849.6	822.7	26.91	31.571	
5,510.0	5,465.6	5,538.1	5,470.2	16.5	17.2	108.14	186.9	602.1	849.6	822.7	26.92	31.555	
5,600.0	5,555.6	5,628.1	5,560.2	16.6	17.3	108.14	186.9	602.1	849.6	822.6	27.05	31.414	
5,605.0	5,560.6	5,633.1	5,565.2	16.6	17.3	108.14	186.9	602.1	849.6	822.6	27.05	31.406	
5,700.0	5,655.6	5,728.1	5,660.2	16.6	17.3	108.14	186.9	602.1	849.6	822.4	27.18	31.258	
5,795.0	5,750.6	5,823.1	5,755.2	16.7	17.4	108.14	186.9	602.1	849.6	822.3	27.31	31.112	
5,800.0	5,755.6	5,828.1	5,760.2	16.7	17.4	108.14	186.9	602.1	849.6	822.3	27.32	31.104	
5,890.0	5,845.6	5,918.1	5,850.2	16.7	17.4	108.14	186.9	602.1	849.6	822.2	27.44	30.966	
5,900.0	5,855.6	5,928.1	5,860.2	16.8	17.4	108.14	186.9	602.1	849.6	822.2	27.45	30.950	
5,985.0	5,940.6	6,013.1	5,945.2	16.8	17.5	108.14	186.9	602.1	849.6	822.1	27.57	30.821	
6,000.0	5,955.6	6,028.1	5,960.2	16.8	17.5	108.14	186.9	602.1	849.6	822.0	27.59	30.798	
6,080.0	6,035.6	6,108.1	6,040.2	16.9	17.5	108.14	186.9	602.1	849.6	821.9	27.70	30.677	
6,100.0	6,055.6	6,128.1	6,060.2	16.9	17.5	108.14	186.9	602.1	849.6	821.9	27.72	30.647	
6,175.0	6,130.6	6,203.1	6,135.2	16.9	17.6	108.14	186.9	602.1	849.6	821.8	27.82	30.535	
6,200.0	6,155.6	6,228.1	6,160.2	16.9	17.6	108.14	186.9	602.1	849.6	821.8	27.86	30.497	
6,270.0	6,225.6	6,298.1	6,230.2	17.0	17.6	108.14	186.9	602.1	849.6	821.7	27.95	30.393	
6,300.0	6,255.6	6,328.1	6,260.2	17.0	17.6	108.14	186.9	602.1	849.6	821.6	28.00	30.348	
6,365.0	6,320.6	6,393.1	6,325.2	17.0	17.7	108.14	186.9	602.1	849.6	821.5	28.08	30.252	
6,400.0	6,355.6	6,428.1	6,360.2	17.0	17.7	108.14	186.9	602.1	849.6	821.5	28.13	30.201	
6,460.0	6,415.6	6,488.1	6,420.2	17.1	17.7	108.14	186.9	602.1	849.6	821.4	28.21	30.113	
6,500.0	6,455.6	6,528.1	6,460.2	17.1	17.7	108.14	186.9	602.1	849.6	821.4	28.27	30.054	
6,555.0	6,510.6	6,583.1	6,515.2	17.1	17.8	108.14	186.9	602.1	849.6	821.3	28.34	29.974	
6,600.0	6,555.6	6,628.1	6,560.2	17.2	17.8	108.14	186.9	602.1	849.6	821.2	28.41	29.909	
6,650.0	6,605.6	6,678.1	6,610.2	17.2	17.8	108.14	186.9	602.1	849.6	821.1	28.48	29.837	
6,700.0	6,655.6	6,728.1	6,660.2	17.2	17.9	108.14	186.9	602.1	849.6	821.1	28.54	29.765	
6,745.0	6,700.6	6,773.1	6,705.2	17.3	17.9	108.14	186.9	602.1	849.6	821.0	28.61	29.700	
6,800.0	6,755.6	6,828.1	6,760.2	17.3	17.9	108.14	186.9	602.1	849.6	820.9	28.68	29.622	
6,840.0	6,795.6	6,868.1	6,800.2	17.3	17.9	108.14	186.9	602.1	849.6	820.9	28.74	29.565	
6,900.0	6,855.6	6,928.1	6,860.2	17.4	18.0	108.14	186.9	602.1	849.6	820.8	28.82	29.480	
6,935.0	6,890.6	6,963.1	6,895.2	17.4	18.0	108.14	186.9	602.1	849.6	820.8	28.87	29.430	
7,000.0	6,955.6	7,028.1	6,960.2	17.4	18.0	108.14	186.9	602.1	849.6	820.7	28.96	29.339	
7,030.0	6,985.6	7,058.1	6,990.2	17.4	18.0	108.14	186.9	602.1	849.6	820.6	29.00	29.297	
7,100.0	7,055.6	7,128.1	7,060.2	17.5	18.1	108.14	186.9	602.1	849.6	820.5	29.10	29.199	
7,125.0	7,080.6	7,153.1	7,085.2	17.5	18.1	108.14	186.9	602.1	849.6	820.5	29.13	29.164	
7,200.0	7,155.6	7,228.1	7,160.2	17.5	18.1	108.14	186.9	602.1	849.6	820.4	29.24	29.060	
7,220.0	7,175.6	7,248.1	7,180.2	17.6	18.1	108.14	186.9	602.1	849.6	820.4	29.26	29.032	
7,300.0	7,255.6	7,328.1	7,260.2	17.6	18.2	108.14	186.9	602.1	849.6	820.2	29.38	28.922	
7,315.0	7,270.6	7,343.1	7,275.2	17.6	18.2	108.14	186.9	602.1	849.6	820.2	29.40	28.902	
7,400.0	7,355.6	7,428.1	7,360.2	17.7	18.2	108.14	186.9	602.1	849.6	820.1	29.52	28.786	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,410.0	7,365.6	7,438.1	7,370.2	17.7	18.2	108.14	186.9	602.1	849.6	820.1	29.53	28.772		
7,500.0	7,455.6	7,528.1	7,460.2	17.7	18.3	108.14	186.9	602.1	849.6	820.0	29.66	28.650		
7,505.0	7,460.6	7,533.1	7,465.2	17.7	18.3	108.14	186.9	602.1	849.6	820.0	29.66	28.643		
7,600.0	7,555.6	7,628.1	7,560.2	17.8	18.4	108.14	186.9	602.1	849.6	819.8	29.80	28.515		
7,695.0	7,650.6	7,723.1	7,655.2	17.8	18.4	108.14	186.9	602.1	849.6	819.7	29.93	28.389		
7,700.0	7,655.6	7,728.1	7,660.2	17.8	18.4	108.14	186.9	602.1	849.6	819.7	29.94	28.382		
7,790.0	7,745.6	7,818.1	7,750.2	17.9	18.5	108.14	186.9	602.1	849.6	819.6	30.06	28.263		
7,800.0	7,755.6	7,828.1	7,760.2	17.9	18.5	108.14	186.9	602.1	849.6	819.5	30.08	28.249		
7,885.0	7,840.6	7,913.1	7,845.2	18.0	18.5	108.14	186.9	602.1	849.6	819.4	30.20	28.138		
7,900.0	7,855.6	7,928.1	7,860.2	18.0	18.5	108.14	186.9	602.1	849.6	819.4	30.22	28.118		
7,980.0	7,935.6	8,008.1	7,940.2	18.0	18.6	108.14	186.9	602.1	849.6	819.3	30.33	28.013		
8,000.0	7,955.6	8,028.1	7,960.2	18.0	18.6	108.14	186.9	602.1	849.6	819.3	30.36	27.987		
8,075.0	8,030.6	8,103.1	8,035.2	18.1	18.6	108.14	186.9	602.1	849.6	819.2	30.46	27.890		
8,100.0	8,055.6	8,128.1	8,060.2	18.1	18.6	108.14	186.9	602.1	849.6	819.1	30.50	27.858		
8,170.0	8,125.6	8,198.1	8,130.2	18.1	18.7	108.14	186.9	602.1	849.6	819.0	30.60	27.768		
8,200.0	8,155.6	8,228.1	8,160.2	18.2	18.7	108.14	186.9	602.1	849.6	819.0	30.64	27.730		
8,265.0	8,220.6	8,293.1	8,225.2	18.2	18.7	108.14	186.9	602.1	849.6	818.9	30.73	27.647		
8,300.0	8,255.6	8,328.1	8,260.2	18.2	18.8	108.14	186.9	602.1	849.6	818.8	30.78	27.602		
8,360.0	8,315.6	8,388.1	8,320.2	18.3	18.8	108.14	186.9	602.1	849.6	818.8	30.87	27.526		
8,400.0	8,355.6	8,428.1	8,360.2	18.3	18.8	108.14	186.9	602.1	849.6	818.7	30.92	27.481		
8,455.0	8,410.6	8,483.1	8,415.2	18.3	18.8	108.14	186.9	602.1	849.6	818.6	30.98	27.421		
8,500.0	8,455.6	8,512.5	8,444.6	18.4	18.8	108.18	186.3	602.2	850.0	819.0	31.03	27.390		
8,550.0	8,505.6	8,550.0	8,482.0	18.4	18.9	108.36	183.3	602.4	851.5	820.4	31.09	27.389		
8,600.0	8,555.6	8,574.9	8,506.6	18.4	18.9	108.56	180.0	602.7	854.1	822.9	31.15	27.420		
8,645.0	8,600.6	8,600.0	8,531.4	18.4	18.9	108.84	175.6	603.1	857.3	826.2	31.20	27.482		
8,700.0	8,655.6	8,635.1	8,565.6	18.5	18.9	109.32	167.7	603.8	862.7	831.4	31.25	27.601		
8,740.0	8,695.6	8,650.0	8,579.9	18.5	18.9	109.57	163.7	604.2	867.5	836.2	31.30	27.717		
8,800.0	8,755.6	8,700.0	8,627.2	18.5	18.9	110.54	147.5	605.6	876.2	844.8	31.36	27.940		
8,835.0	8,790.6	8,711.3	8,637.7	18.6	18.9	110.79	143.3	606.0	882.0	850.6	31.40	28.092		
8,900.0	8,855.6	8,750.0	8,672.9	18.6	19.0	111.74	127.4	607.5	894.8	863.4	31.47	28.435		
8,930.0	8,885.6	8,750.0	8,672.9	18.6	19.0	111.74	127.4	607.5	901.6	870.1	31.51	28.615		
9,000.0	8,955.6	8,800.0	8,716.6	18.7	19.0	113.13	103.3	609.6	919.0	887.5	31.59	29.096		
9,025.0	8,980.6	8,800.0	8,716.6	18.7	19.0	113.13	103.3	609.6	926.0	894.4	31.62	29.283		
9,100.0	9,055.6	8,850.0	8,758.1	18.7	19.0	114.69	75.5	612.1	949.1	917.4	31.72	29.920		
9,120.0	9,075.6	8,850.0	8,758.1	18.8	19.0	114.69	75.5	612.1	955.6	923.9	31.75	30.096		
9,200.0	9,155.6	8,878.3	8,780.4	18.8	19.0	115.64	58.2	613.7	984.7	952.8	31.88	30.884		
9,215.0	9,170.6	8,883.9	8,784.8	18.8	19.0	115.84	54.7	614.0	990.5	958.6	31.91	31.045		
9,257.4	9,213.0	8,900.0	8,797.0	18.8	19.1	116.40	44.3	615.0	1,007.7	975.8	31.97	31.518		
9,300.0	9,255.6	8,914.6	8,807.8	18.9	19.1	-61.86	34.5	615.8	1,025.4	993.5	31.90	32.147		
9,310.0	9,265.6	8,918.2	8,810.5	18.9	19.1	-61.35	32.0	616.1	1,029.5	997.6	31.91	32.260		
9,350.0	9,305.2	8,932.9	8,821.0	18.9	19.1	-59.40	21.9	617.0	1,045.6	1,013.6	31.98	32.696		
9,400.0	9,354.2	8,950.0	8,833.0	19.0	19.1	-57.16	9.7	618.1	1,065.1	1,033.0	32.07	33.208		
9,405.0	9,359.0	8,950.0	8,833.0	19.0	19.1	-56.98	9.7	618.1	1,067.0	1,034.9	32.08	33.256		
9,450.0	9,402.0	8,970.2	8,846.7	19.1	19.1	-55.06	-5.1	619.4	1,083.6	1,051.5	32.18	33.676		
9,500.0	9,448.5	9,000.0	8,865.9	19.1	19.1	-53.01	-27.8	621.4	1,101.2	1,068.9	32.29	34.107		
9,550.0	9,493.1	9,000.0	8,865.9	19.2	19.1	-51.65	-27.8	621.4	1,117.4	1,085.0	32.43	34.459		
9,595.0	9,531.4	9,025.8	8,881.5	19.2	19.2	-50.23	-48.2	623.3	1,130.8	1,098.3	32.55	34.745		
9,600.0	9,535.6	9,027.7	8,882.6	19.3	19.2	-50.09	-49.8	623.4	1,132.2	1,099.7	32.56	34.773		
9,650.0	9,575.6	9,050.0	8,895.3	19.3	19.2	-48.82	-68.0	625.1	1,145.7	1,113.0	32.71	35.028		
9,690.0	9,605.7	9,050.0	8,895.3	19.4	19.2	-48.06	-68.0	625.1	1,155.5	1,122.6	32.85	35.176		
9,700.0	9,612.9	9,066.8	8,904.4	19.4	19.2	-47.79	-82.1	626.3	1,157.6	1,124.7	32.87	35.216		

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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)		
9,750.0	9,647.2	9,100.0	8,921.1	19.4	19.2	-46.86	-110.6	628.9	1,168.0	1,135.0	33.03	35.367	
9,785.0	9,669.2	9,100.0	8,921.1	19.5	19.2	-46.42	-110.6	628.9	1,174.0	1,140.9	33.16	35.401	
9,800.0	9,678.1	9,100.0	8,921.1	19.5	19.2	-46.24	-110.6	628.9	1,176.4	1,143.2	33.22	35.410	
9,850.0	9,705.5	9,126.0	8,933.0	19.6	19.3	-45.72	-133.6	631.0	1,183.3	1,149.8	33.40	35.423	
9,880.0	9,720.2	9,150.0	8,943.1	19.6	19.3	-45.51	-155.4	632.9	1,186.7	1,153.2	33.50	35.418	
9,900.0	9,729.1	9,150.0	8,943.1	19.6	19.3	-45.39	-155.4	632.9	1,188.3	1,154.8	33.59	35.378	
9,950.0	9,748.9	9,165.5	8,949.1	19.6	19.3	-45.21	-169.6	634.2	1,191.6	1,157.8	33.79	35.263	
9,975.0	9,757.2	9,175.4	8,952.8	19.7	19.3	-45.18	-178.8	635.1	1,192.6	1,158.7	33.89	35.187	
10,000.0	9,764.5	9,200.0	8,961.1	19.7	19.3	-45.27	-201.8	637.1	1,193.3	1,159.3	33.97	35.123	
10,050.0	9,776.0	9,200.0	8,961.1	19.7	19.3	-45.31	-201.8	637.1	1,192.8	1,158.6	34.20	34.876	
10,070.0	9,779.3	9,200.0	8,961.1	19.7	19.3	-45.35	-201.8	637.1	1,192.3	1,158.0	34.29	34.768	
10,100.0	9,783.1	9,224.8	8,968.5	19.7	19.4	-45.67	-225.4	639.3	1,190.6	1,156.2	34.40	34.615	
10,150.0	9,786.0	9,250.0	8,975.0	19.8	19.4	-46.21	-249.6	641.4	1,186.8	1,152.2	34.59	34.311	
10,157.1	9,786.0	9,250.0	8,975.0	19.8	19.4	-46.26	-249.6	641.4	1,186.1	1,151.5	34.62	34.263	
10,165.0	9,786.0	9,250.0	8,975.0	19.8	19.4	-46.26	-249.6	641.4	1,185.3	1,150.7	34.65	34.210	
10,200.0	9,786.0	9,250.0	8,975.0	19.8	19.4	-46.26	-249.6	641.4	1,182.5	1,147.7	34.79	33.993	
10,260.0	9,786.1	9,300.0	8,984.6	19.8	19.5	-46.76	-298.5	645.8	1,178.7	1,143.7	34.99	33.691	
10,300.0	9,786.1	9,300.0	8,984.6	19.8	19.5	-46.76	-298.5	645.8	1,177.1	1,141.9	35.16	33.478	
10,352.2	9,786.1	9,325.7	8,987.8	19.9	19.5	-46.96	-323.9	648.1	1,176.4	1,141.0	35.38	33.249	
10,355.0	9,786.1	9,326.9	8,988.0	19.9	19.5	-46.97	-325.0	648.2	1,176.4	1,141.0	35.39	33.238	
10,400.0	9,786.1	9,350.0	8,989.9	19.9	19.5	-47.11	-348.0	650.3	1,177.0	1,141.4	35.58	33.076	
10,450.0	9,786.2	9,366.1	8,990.7	19.9	19.5	-47.19	-364.0	651.8	1,178.8	1,143.0	35.82	32.909	
10,500.0	9,786.2	9,389.9	8,991.0	19.9	19.6	-47.28	-387.7	653.9	1,181.8	1,145.8	36.05	32.787	
10,545.0	9,786.2	9,454.3	8,991.0	20.0	19.7	-47.46	-451.9	658.9	1,184.7	1,148.4	36.24	32.688	
10,600.0	9,786.2	9,533.4	8,991.1	20.0	19.8	-47.62	-530.9	663.0	1,187.1	1,150.6	36.50	32.523	
10,640.0	9,786.3	9,591.0	8,991.1	20.0	19.9	-47.69	-588.5	664.6	1,188.2	1,151.5	36.72	32.363	
10,700.0	9,786.3	9,677.6	8,991.1	20.1	20.1	-47.72	-675.1	664.9	1,188.7	1,151.7	37.04	32.089	
10,702.1	9,786.3	9,680.6	8,991.1	20.1	20.1	-47.72	-678.1	664.8	1,188.7	1,151.7	37.06	32.079	
10,735.0	9,786.3	9,709.3	8,991.2	20.1	20.2	-47.72	-706.8	664.6	1,188.7	1,151.5	37.26	31.908	
10,800.0	9,786.3	9,774.3	8,991.2	20.2	20.3	-47.72	-771.8	664.1	1,188.7	1,151.1	37.66	31.564	
10,830.0	9,786.4	9,804.3	8,991.2	20.2	20.3	-47.72	-801.7	663.8	1,188.7	1,150.9	37.86	31.401	
10,900.0	9,786.4	9,874.3	8,991.2	20.3	20.5	-47.72	-871.7	663.3	1,188.7	1,150.4	38.33	31.013	
10,925.0	9,786.4	9,899.3	8,991.2	20.3	20.6	-47.72	-896.7	663.1	1,188.7	1,150.2	38.50	30.873	
11,000.0	9,786.4	9,974.3	8,991.3	20.4	20.7	-47.72	-971.7	662.4	1,188.7	1,149.7	39.05	30.443	
11,020.0	9,786.5	9,994.3	8,991.3	20.4	20.8	-47.72	-991.7	662.3	1,188.7	1,149.6	39.20	30.327	
11,100.0	9,786.5	10,074.3	8,991.3	20.5	21.0	-47.72	-1,071.7	661.6	1,188.8	1,148.9	39.81	29.857	
11,115.0	9,786.5	10,089.3	8,991.3	20.6	21.0	-47.72	-1,086.7	661.5	1,188.8	1,148.8	39.93	29.768	
11,200.0	9,786.5	10,174.3	8,991.4	20.7	21.3	-47.72	-1,171.7	660.8	1,188.8	1,148.1	40.62	29.262	
11,210.0	9,786.6	10,184.3	8,991.4	20.7	21.3	-47.72	-1,181.7	660.7	1,188.8	1,148.1	40.71	29.202	
11,300.0	9,786.6	10,274.3	8,991.4	20.9	21.6	-47.72	-1,271.7	660.0	1,188.8	1,147.3	41.48	28.661	
11,305.0	9,786.6	10,279.3	8,991.4	20.9	21.6	-47.72	-1,276.7	659.9	1,188.8	1,147.2	41.52	28.630	
11,400.0	9,786.7	10,374.3	8,991.5	21.1	21.9	-47.72	-1,371.7	659.1	1,188.8	1,146.4	42.37	28.058	
11,495.0	9,786.7	10,469.3	8,991.5	21.4	22.2	-47.72	-1,466.7	658.4	1,188.8	1,145.5	43.25	27.486	
11,500.0	9,786.7	10,474.3	8,991.5	21.4	22.3	-47.72	-1,471.7	658.3	1,188.8	1,145.5	43.30	27.456	
11,590.0	9,786.8	10,564.3	8,991.5	21.6	22.6	-47.72	-1,561.7	657.6	1,188.8	1,144.6	44.16	26.918	
11,600.0	9,786.8	10,574.3	8,991.6	21.7	22.6	-47.72	-1,571.7	657.5	1,188.8	1,144.5	44.26	26.859	
11,685.0	9,786.8	10,659.3	8,991.6	21.9	23.0	-47.72	-1,656.7	656.8	1,188.8	1,143.7	45.11	26.356	
11,700.0	9,786.8	10,674.3	8,991.6	22.0	23.0	-47.72	-1,671.7	656.7	1,188.8	1,143.5	45.26	26.268	
11,780.0	9,786.9	10,754.3	8,991.6	22.3	23.3	-47.72	-1,751.7	656.0	1,188.8	1,142.7	46.08	25.801	
11,800.0	9,786.9	10,774.3	8,991.6	22.4	23.4	-47.72	-1,771.7	655.8	1,188.8	1,142.5	46.28	25.686	
11,875.0	9,786.9	10,849.3	8,991.7	22.7	23.7	-47.72	-1,846.7	655.2	1,188.8	1,141.7	47.07	25.256	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error: 0.0 usft			
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft			
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor				
11,900.0	9,786.9	10,874.3	8,991.7	22.8	23.8	-47.72	-1,871.7	655.0	1,188.8	1,141.5	47.34	25.114				
11,970.0	9,787.0	10,944.3	8,991.7	23.1	24.2	-47.72	-1,941.7	654.4	1,188.8	1,140.7	48.09	24.720				
12,000.0	9,787.0	10,974.3	8,991.7	23.2	24.3	-47.72	-1,971.7	654.2	1,188.8	1,140.4	48.42	24.554				
12,065.0	9,787.0	11,039.3	8,991.8	23.5	24.6	-47.72	-2,036.7	653.6	1,188.8	1,139.7	49.13	24.196				
12,100.0	9,787.0	11,074.3	8,991.8	23.7	24.7	-47.72	-2,071.7	653.4	1,188.8	1,139.3	49.52	24.006				
12,160.0	9,787.0	11,134.3	8,991.8	24.0	25.0	-47.72	-2,131.7	652.9	1,188.8	1,138.6	50.20	23.683				
12,200.0	9,787.1	11,174.3	8,991.8	24.2	25.2	-47.72	-2,171.7	652.5	1,188.8	1,138.2	50.65	23.471				
12,255.0	9,787.1	11,229.3	8,991.9	24.5	25.5	-47.72	-2,226.7	652.1	1,188.8	1,137.5	51.28	23.182				
12,300.0	9,787.1	11,274.3	8,991.9	24.7	25.7	-47.72	-2,271.7	651.7	1,188.8	1,137.0	51.80	22.950				
12,350.0	9,787.1	11,324.3	8,991.9	25.0	26.0	-47.72	-2,321.7	651.3	1,188.8	1,136.4	52.38	22.694				
12,400.0	9,787.2	11,374.3	8,991.9	25.3	26.2	-47.72	-2,371.7	650.9	1,188.8	1,135.9	52.97	22.443				
12,445.0	9,787.2	11,419.3	8,991.9	25.6	26.5	-47.72	-2,416.7	650.5	1,188.8	1,135.3	53.50	22.219				
12,500.0	9,787.2	11,474.3	8,992.0	25.9	26.8	-47.72	-2,471.7	650.1	1,188.8	1,134.7	54.16	21.950				
12,540.0	9,787.2	11,514.3	8,992.0	26.1	27.0	-47.72	-2,511.7	649.7	1,188.8	1,134.2	54.64	21.757				
12,600.0	9,787.3	11,574.3	8,992.0	26.5	27.3	-47.72	-2,571.7	649.2	1,188.8	1,133.5	55.37	21.472				
12,635.0	9,787.3	11,609.3	8,992.0	26.7	27.5	-47.72	-2,606.7	648.9	1,188.8	1,133.0	55.79	21.308				
12,700.0	9,787.3	11,674.3	8,992.1	27.0	27.8	-47.72	-2,671.7	648.4	1,188.8	1,132.3	56.59	21.008				
12,730.0	9,787.3	11,704.3	8,992.1	27.2	28.0	-47.72	-2,701.7	648.2	1,188.8	1,131.9	56.96	20.871				
12,800.0	9,787.4	11,774.3	8,992.1	27.7	28.4	-47.72	-2,771.7	647.6	1,188.9	1,131.0	57.83	20.558				
12,825.0	9,787.4	11,799.3	8,992.1	27.8	28.5	-47.72	-2,796.7	647.4	1,188.9	1,130.7	58.14	20.447				
12,900.0	9,787.4	11,874.3	8,992.2	28.3	29.0	-47.72	-2,871.7	646.8	1,188.9	1,129.8	59.08	20.121				
12,920.0	9,787.4	11,894.3	8,992.2	28.4	29.1	-47.72	-2,891.7	646.6	1,188.9	1,129.5	59.34	20.036				
13,000.0	9,787.5	11,974.3	8,992.2	28.9	29.5	-47.72	-2,971.7	645.9	1,188.9	1,128.5	60.35	19.699				
13,015.0	9,787.5	11,989.3	8,992.2	29.0	29.6	-47.72	-2,986.7	645.8	1,188.9	1,128.3	60.54	19.637				
13,100.0	9,787.5	12,074.3	8,992.3	29.5	30.1	-47.72	-3,071.7	645.1	1,188.9	1,127.2	61.63	19.290				
13,110.0	9,787.5	12,084.3	8,992.3	29.6	30.2	-47.72	-3,081.7	645.0	1,188.9	1,127.1	61.76	19.249				
13,200.0	9,787.6	12,174.3	8,992.3	30.2	30.7	-47.72	-3,171.7	644.3	1,188.9	1,125.9	62.92	18.894				
13,205.0	9,787.6	12,179.3	8,992.3	30.2	30.8	-47.72	-3,176.7	644.2	1,188.9	1,125.9	62.99	18.874				
13,300.0	9,787.6	12,274.3	8,992.3	30.8	31.3	-47.71	-3,271.7	643.5	1,188.9	1,124.7	64.23	18.510				
13,395.0	9,787.7	12,369.3	8,992.4	31.5	31.9	-47.71	-3,366.7	642.7	1,188.9	1,123.4	65.48	18.157				
13,400.0	9,787.7	12,374.3	8,992.4	31.5	31.9	-47.71	-3,371.7	642.6	1,188.9	1,123.3	65.54	18.139				
13,490.0	9,787.7	12,464.3	8,992.4	32.1	32.5	-47.71	-3,461.7	641.9	1,188.9	1,122.2	66.73	17.815				
13,500.0	9,787.8	12,474.3	8,992.4	32.2	32.6	-47.71	-3,471.7	641.8	1,188.9	1,122.0	66.87	17.780				
13,585.0	9,787.8	12,559.3	8,992.5	32.7	33.1	-47.71	-3,556.7	641.1	1,188.9	1,120.9	68.00	17.483				
13,600.0	9,787.8	12,574.3	8,992.5	32.8	33.2	-47.71	-3,571.7	641.0	1,188.9	1,120.7	68.20	17.432				
13,680.0	9,787.8	12,654.3	8,992.5	33.4	33.7	-47.71	-3,651.7	640.3	1,188.9	1,119.6	69.28	17.162				
13,700.0	9,787.9	12,674.3	8,992.5	33.5	33.8	-47.71	-3,671.7	640.2	1,188.9	1,119.4	69.54	17.096				
13,775.0	9,787.9	12,749.3	8,992.6	34.0	34.3	-47.71	-3,746.6	639.5	1,188.9	1,118.3	70.56	16.850				
13,800.0	9,787.9	12,774.3	8,992.6	34.2	34.5	-47.71	-3,771.6	639.3	1,188.9	1,118.0	70.90	16.770				
13,870.0	9,787.9	12,844.3	8,992.6	34.7	34.9	-47.71	-3,841.6	638.7	1,188.9	1,117.1	71.85	16.548				
13,900.0	9,788.0	12,874.3	8,992.6	34.9	35.1	-47.71	-3,871.6	638.5	1,188.9	1,116.7	72.25	16.455				
13,965.0	9,788.0	12,939.3	8,992.7	35.3	35.5	-47.71	-3,936.6	638.0	1,188.9	1,115.8	73.14	16.255				
14,000.0	9,788.0	12,974.3	8,992.7	35.6	35.7	-47.71	-3,971.6	637.7	1,188.9	1,115.3	73.62	16.149				
14,060.0	9,788.0	13,034.3	8,992.7	36.0	36.1	-47.71	-4,031.6	637.2	1,188.9	1,114.5	74.44	15.970				
14,100.0	9,788.1	13,074.3	8,992.7	36.3	36.4	-47.71	-4,071.6	636.9	1,188.9	1,113.9	74.99	15.853				
14,155.0	9,788.1	13,129.3	8,992.7	36.6	36.8	-47.71	-4,126.6	636.4	1,188.9	1,113.2	75.75	15.695				
14,200.0	9,788.1	13,174.3	8,992.8	37.0	37.1	-47.71	-4,171.6	636.0	1,188.9	1,112.6	76.38	15.567				
14,250.0	9,788.1	13,224.3	8,992.8	37.3	37.4	-47.71	-4,221.6	635.6	1,188.9	1,111.9	77.07	15.427				
14,300.0	9,788.2	13,274.3	8,992.8	37.7	37.7	-47.71	-4,271.6	635.2	1,188.9	1,111.2	77.76	15.289				
14,345.0	9,788.2	13,319.3	8,992.8	38.0	38.0	-47.71	-4,316.6	634.8	1,188.9	1,110.6	78.39	15.167				
14,400.0	9,788.2	13,374.3	8,992.9	38.4	38.4	-47.71	-4,371.6	634.4	1,188.9	1,109.8	79.15	15.020				

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,440.0	9,788.2	13,414.3	8,992.9	38.6	38.7	-47.71	-4,411.6	634.0	1,188.9	1,109.2	79.71	14.915	
14,500.0	9,788.3	13,474.3	8,992.9	39.1	39.1	-47.71	-4,471.6	633.5	1,188.9	1,108.4	80.55	14.760	
14,535.0	9,788.3	13,509.3	8,992.9	39.3	39.3	-47.71	-4,506.6	633.3	1,188.9	1,107.9	81.04	14.670	
14,600.0	9,788.3	13,574.3	8,993.0	39.8	39.7	-47.71	-4,571.6	632.7	1,189.0	1,107.0	81.96	14.507	
14,630.0	9,788.3	13,604.3	8,993.0	40.0	39.9	-47.71	-4,601.6	632.5	1,189.0	1,106.6	82.38	14.433	
14,700.0	9,788.4	13,674.3	8,993.0	40.5	40.4	-47.71	-4,671.6	631.9	1,189.0	1,105.6	83.37	14.262	
14,725.0	9,788.4	13,699.3	8,993.0	40.6	40.6	-47.71	-4,696.6	631.7	1,189.0	1,105.2	83.72	14.202	
14,800.0	9,788.4	13,774.3	8,993.0	41.2	41.1	-47.71	-4,771.6	631.1	1,189.0	1,104.2	84.78	14.024	
14,820.0	9,788.4	13,794.3	8,993.1	41.3	41.2	-47.71	-4,791.6	630.9	1,189.0	1,103.9	85.06	13.977	
14,900.0	9,788.5	13,874.3	8,993.1	41.9	41.8	-47.71	-4,871.6	630.2	1,189.0	1,102.8	86.20	13.793	
14,915.0	9,788.5	13,889.3	8,993.1	42.0	41.9	-47.71	-4,886.6	630.1	1,189.0	1,102.6	86.41	13.759	
15,000.0	9,788.5	13,974.3	8,993.1	42.6	42.5	-47.71	-4,971.6	629.4	1,189.0	1,101.4	87.62	13.570	
15,010.0	9,788.5	13,984.3	8,993.1	42.7	42.5	-47.71	-4,981.6	629.3	1,189.0	1,101.2	87.76	13.547	
15,100.0	9,788.6	14,074.3	8,993.2	43.3	43.2	-47.71	-5,071.6	628.6	1,189.0	1,099.9	89.05	13.352	
15,105.0	9,788.6	14,079.3	8,993.2	43.4	43.2	-47.71	-5,076.6	628.6	1,189.0	1,099.9	89.12	13.341	
15,200.0	9,788.6	14,174.3	8,993.2	44.0	43.9	-47.71	-5,171.6	627.8	1,189.0	1,098.5	90.48	13.141	
15,295.0	9,788.7	14,269.3	8,993.3	44.7	44.5	-47.71	-5,266.6	627.0	1,189.0	1,097.2	91.84	12.946	
15,300.0	9,788.7	14,274.3	8,993.3	44.8	44.5	-47.71	-5,271.6	626.9	1,189.0	1,097.1	91.91	12.936	
15,390.0	9,788.7	14,364.3	8,993.3	45.4	45.2	-47.71	-5,361.6	626.2	1,189.0	1,095.8	93.21	12.756	
15,400.0	9,788.7	14,374.3	8,993.3	45.5	45.2	-47.71	-5,371.6	626.1	1,189.0	1,095.6	93.35	12.737	
15,485.0	9,788.8	14,459.3	8,993.4	46.1	45.8	-47.71	-5,456.6	625.4	1,189.0	1,094.4	94.58	12.572	
15,500.0	9,788.8	14,474.3	8,993.4	46.2	45.9	-47.71	-5,471.6	625.3	1,189.0	1,094.2	94.79	12.543	
15,580.0	9,788.8	14,554.3	8,993.4	46.8	46.5	-47.71	-5,551.6	624.6	1,189.0	1,093.1	95.95	12.392	
15,600.0	9,788.9	14,574.3	8,993.4	46.9	46.6	-47.71	-5,571.6	624.5	1,189.0	1,092.8	96.24	12.355	
15,675.0	9,788.9	14,649.3	8,993.5	47.5	47.2	-47.71	-5,646.6	623.9	1,189.0	1,091.7	97.33	12.217	
15,700.0	9,788.9	14,674.3	8,993.5	47.6	47.4	-47.71	-5,671.6	623.6	1,189.0	1,091.3	97.69	12.171	
15,770.0	9,788.9	14,744.3	8,993.5	48.2	47.8	-47.71	-5,741.6	623.1	1,189.0	1,090.3	98.70	12.046	
15,800.0	9,789.0	14,774.3	8,993.5	48.4	48.1	-47.71	-5,771.6	622.8	1,189.0	1,089.9	99.14	11.993	
15,865.0	9,789.0	14,839.3	8,993.5	48.8	48.5	-47.71	-5,836.6	622.3	1,189.0	1,088.9	100.09	11.880	
15,900.0	9,789.0	14,874.3	8,993.6	49.1	48.8	-47.71	-5,871.6	622.0	1,189.0	1,088.4	100.59	11.820	
15,960.0	9,789.0	14,934.3	8,993.6	49.5	49.2	-47.71	-5,931.6	621.5	1,189.0	1,087.6	101.47	11.718	
16,000.0	9,789.1	14,974.3	8,993.6	49.8	49.5	-47.71	-5,971.6	621.2	1,189.0	1,087.0	102.05	11.651	
16,055.0	9,789.1	15,029.3	8,993.6	50.2	49.9	-47.71	-6,026.6	620.7	1,189.0	1,086.2	102.85	11.560	
16,100.0	9,789.1	15,074.3	8,993.7	50.6	50.2	-47.71	-6,071.6	620.3	1,189.0	1,085.5	103.51	11.487	
16,150.0	9,789.1	15,124.3	8,993.7	50.9	50.5	-47.71	-6,121.6	619.9	1,189.0	1,084.8	104.24	11.406	
16,200.0	9,789.2	15,174.3	8,993.7	51.3	50.9	-47.71	-6,171.6	619.5	1,189.0	1,084.1	104.97	11.327	
16,245.0	9,789.2	15,219.3	8,993.7	51.6	51.2	-47.71	-6,216.6	619.1	1,189.0	1,083.4	105.63	11.256	
16,300.0	9,789.2	15,274.3	8,993.7	52.0	51.6	-47.71	-6,271.6	618.7	1,189.1	1,082.6	106.44	11.171	
16,340.0	9,789.2	15,314.3	8,993.8	52.3	51.9	-47.71	-6,311.6	618.4	1,189.1	1,082.0	107.03	11.110	
16,400.0	9,789.3	15,374.3	8,993.8	52.8	52.3	-47.71	-6,371.6	617.9	1,189.1	1,081.1	107.91	11.019	
16,435.0	9,789.3	15,409.3	8,993.8	53.0	52.6	-47.71	-6,406.6	617.6	1,189.1	1,080.6	108.42	10.967	
16,500.0	9,789.3	15,474.3	8,993.8	53.5	53.0	-47.71	-6,471.6	617.0	1,189.1	1,079.7	109.38	10.871	
16,530.0	9,789.3	15,504.3	8,993.9	53.7	53.3	-47.71	-6,501.6	616.8	1,189.1	1,079.2	109.82	10.828	
16,600.0	9,789.4	15,574.3	8,993.9	54.2	53.8	-47.71	-6,571.6	616.2	1,189.1	1,078.2	110.85	10.727	
16,625.0	9,789.4	15,599.3	8,993.9	54.4	53.9	-47.71	-6,596.6	616.0	1,189.1	1,077.9	111.22	10.692	
16,700.0	9,789.4	15,674.3	8,993.9	55.0	54.5	-47.71	-6,671.5	615.4	1,189.1	1,076.8	112.32	10.586	
16,720.0	9,789.4	15,694.3	8,993.9	55.1	54.6	-47.71	-6,691.5	615.2	1,189.1	1,076.5	112.62	10.559	
16,800.0	9,789.5	15,774.3	8,994.0	55.7	55.2	-47.71	-6,771.5	614.6	1,189.1	1,075.3	113.80	10.449	
16,815.0	9,789.5	15,789.3	8,994.0	55.8	55.3	-47.71	-6,786.5	614.4	1,189.1	1,075.1	114.02	10.429	
16,900.0	9,789.5	15,874.3	8,994.0	56.4	55.9	-47.71	-6,871.5	613.7	1,189.1	1,073.8	115.27	10.315	
16,910.0	9,789.5	15,884.3	8,994.0	56.5	56.0	-47.71	-6,881.5	613.7	1,189.1	1,073.7	115.42	10.302	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
17,000.0	9,789.6	15,974.3	8,994.1	57.2	56.7	-47.71	-6,971.5	612.9	1,189.1	1,072.3	116.75	10.185		
17,005.0	9,789.6	15,979.3	8,994.1	57.2	56.7	-47.71	-6,976.5	612.9	1,189.1	1,072.3	116.83	10.178		
17,100.0	9,789.6	16,074.3	8,994.1	57.9	57.4	-47.71	-7,071.5	612.1	1,189.1	1,070.9	118.23	10.057		
17,195.0	9,789.7	16,169.3	8,994.2	58.6	58.1	-47.71	-7,166.5	611.3	1,189.1	1,069.5	119.64	9.939		
17,200.0	9,789.7	16,174.3	8,994.2	58.6	58.1	-47.71	-7,171.5	611.3	1,189.1	1,069.4	119.72	9.933		
17,290.0	9,789.7	16,264.3	8,994.2	59.3	58.8	-47.71	-7,261.5	610.5	1,189.1	1,068.1	121.05	9.823		
17,300.0	9,789.7	16,274.3	8,994.2	59.4	58.8	-47.71	-7,271.5	610.4	1,189.1	1,067.9	121.20	9.811		
17,385.0	9,789.8	16,359.3	8,994.3	60.0	59.5	-47.71	-7,356.5	609.7	1,189.1	1,066.6	122.47	9.710		
17,400.0	9,789.8	16,374.3	8,994.3	60.1	59.6	-47.71	-7,371.5	609.6	1,189.1	1,066.4	122.69	9.692		
17,480.0	9,789.8	16,454.3	8,994.3	60.7	60.1	-47.71	-7,451.5	609.0	1,189.1	1,065.2	123.88	9.599		
17,500.0	9,789.9	16,474.3	8,994.3	60.9	60.3	-47.71	-7,471.5	608.8	1,189.1	1,064.9	124.18	9.576		
17,575.0	9,789.9	16,549.3	8,994.3	61.4	60.8	-47.71	-7,546.5	608.2	1,189.1	1,063.8	125.29	9.491		
17,600.0	9,789.9	16,574.3	8,994.4	61.6	61.0	-47.71	-7,571.5	608.0	1,189.1	1,063.5	125.67	9.463		
17,670.0	9,789.9	16,644.3	8,994.4	62.1	61.5	-47.71	-7,641.5	607.4	1,189.1	1,062.4	126.71	9.385		
17,700.0	9,790.0	16,674.3	8,994.4	62.4	61.7	-47.71	-7,671.5	607.1	1,189.1	1,062.0	127.16	9.352		
17,765.0	9,790.0	16,739.3	8,994.4	62.8	62.2	-47.71	-7,736.5	606.6	1,189.1	1,061.0	128.13	9.281		
17,800.0	9,790.0	16,774.3	8,994.4	63.1	62.5	-47.71	-7,771.5	606.3	1,189.1	1,060.5	128.65	9.243		
17,860.0	9,790.0	16,834.3	8,994.5	63.5	62.9	-47.71	-7,831.5	605.8	1,189.1	1,059.6	129.54	9.179		
17,900.0	9,790.1	16,874.3	8,994.5	63.8	63.2	-47.71	-7,871.5	605.5	1,189.1	1,059.0	130.14	9.137		
17,955.0	9,790.1	16,929.3	8,994.5	64.3	63.6	-47.71	-7,926.5	605.0	1,189.1	1,058.2	130.96	9.080		
18,000.0	9,790.1	16,974.3	8,994.5	64.6	63.9	-47.71	-7,971.5	604.7	1,189.1	1,057.5	131.64	9.034		
18,050.0	9,790.1	17,024.3	8,994.6	65.0	64.3	-47.71	-8,021.5	604.2	1,189.1	1,056.8	132.38	8.983		
18,100.0	9,790.2	17,074.3	8,994.6	65.3	64.7	-47.71	-8,071.5	603.8	1,189.2	1,056.0	133.13	8.932		
18,145.0	9,790.2	17,119.3	8,994.6	65.7	65.0	-47.71	-8,116.5	603.5	1,189.2	1,055.4	133.80	8.887		
18,200.0	9,790.2	17,174.3	8,994.6	66.1	65.4	-47.71	-8,171.5	603.0	1,189.2	1,054.5	134.63	8.833		
18,240.0	9,790.2	17,214.3	8,994.6	66.4	65.7	-47.71	-8,211.5	602.7	1,189.2	1,053.9	135.23	8.794		
18,300.0	9,790.3	17,274.3	8,994.7	66.8	66.1	-47.71	-8,271.5	602.2	1,189.2	1,053.0	136.13	8.736		
18,335.0	9,790.3	17,309.3	8,994.7	67.1	66.4	-47.71	-8,306.5	601.9	1,189.2	1,052.5	136.65	8.702		
18,400.0	9,790.3	17,374.3	8,994.7	67.6	66.9	-47.71	-8,371.5	601.4	1,189.2	1,051.5	137.63	8.641		
18,430.0	9,790.3	17,404.3	8,994.7	67.8	67.1	-47.71	-8,401.5	601.1	1,189.2	1,051.1	138.08	8.612		
18,500.0	9,790.4	17,474.3	8,994.8	68.3	67.6	-47.71	-8,471.5	600.5	1,189.2	1,050.0	139.13	8.547		
18,525.0	9,790.4	17,499.3	8,994.8	68.5	67.8	-47.71	-8,496.5	600.3	1,189.2	1,049.7	139.50	8.524		
18,600.0	9,790.4	17,574.3	8,994.8	69.1	68.4	-47.71	-8,571.5	599.7	1,189.2	1,048.6	140.63	8.456		
18,620.0	9,790.4	17,594.3	8,994.8	69.2	68.5	-47.71	-8,591.5	599.5	1,189.2	1,048.3	140.93	8.438		
18,700.0	9,790.5	17,674.3	8,994.9	69.8	69.1	-47.71	-8,671.5	598.9	1,189.2	1,047.1	142.13	8.367		
18,715.0	9,790.5	17,689.3	8,994.9	69.9	69.2	-47.71	-8,686.5	598.8	1,189.2	1,046.8	142.36	8.354		
18,800.0	9,790.5	17,774.3	8,994.9	70.6	69.8	-47.71	-8,771.5	598.1	1,189.2	1,045.6	143.63	8.279		
18,810.0	9,790.5	17,784.3	8,994.9	70.6	69.9	-47.71	-8,781.5	598.0	1,189.2	1,045.4	143.78	8.271		
18,900.0	9,790.6	17,874.3	8,995.0	71.3	70.6	-47.71	-8,871.5	597.2	1,189.2	1,044.1	145.14	8.194		
18,905.0	9,790.6	17,879.3	8,995.0	71.3	70.6	-47.71	-8,876.5	597.2	1,189.2	1,044.0	145.21	8.189		
19,000.0	9,790.6	17,974.3	8,995.0	72.0	71.3	-47.71	-8,971.5	596.4	1,189.2	1,042.6	146.64	8.110		
19,095.0	9,790.7	18,069.3	8,995.0	72.8	72.0	-47.71	-9,066.5	595.6	1,189.2	1,041.1	148.07	8.031		
19,100.0	9,790.7	18,074.3	8,995.0	72.8	72.1	-47.71	-9,071.5	595.6	1,189.2	1,041.1	148.15	8.027		
19,190.0	9,790.7	18,164.3	8,995.1	73.5	72.7	-47.71	-9,161.5	594.8	1,189.2	1,039.7	149.51	7.954		
19,200.0	9,790.7	18,174.3	8,995.1	73.5	72.8	-47.71	-9,171.5	594.8	1,189.2	1,039.6	149.66	7.946		
19,285.0	9,790.8	18,259.3	8,995.1	74.2	73.4	-47.71	-9,256.5	594.1	1,189.2	1,038.3	150.94	7.879		
19,300.0	9,790.8	18,274.3	8,995.1	74.3	73.5	-47.71	-9,271.5	593.9	1,189.2	1,038.1	151.16	7.867		
19,380.0	9,790.8	18,354.3	8,995.2	74.9	74.1	-47.71	-9,351.5	593.3	1,189.2	1,036.9	152.37	7.805		
19,400.0	9,790.8	18,374.3	8,995.2	75.0	74.3	-47.71	-9,371.5	593.1	1,189.2	1,036.6	152.67	7.789		
19,475.0	9,790.9	18,449.3	8,995.2	75.6	74.8	-47.71	-9,446.5	592.5	1,189.2	1,035.4	153.81	7.732		
19,500.0	9,790.9	18,474.3	8,995.2	75.8	75.0	-47.71	-9,471.5	592.3	1,189.2	1,035.1	154.18	7.713		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
19,570.0	9,790.9	18,544.3	8,995.3	76.3	75.5	-47.71	-9,541.5	591.7	1,189.2	1,034.0	155.24	7.661
19,600.0	9,791.0	18,574.3	8,995.3	76.5	75.8	-47.71	-9,571.4	591.5	1,189.2	1,033.5	155.69	7.638
19,665.0	9,791.0	18,639.3	8,995.3	77.0	76.2	-47.71	-9,636.4	590.9	1,189.2	1,032.6	156.67	7.591
19,700.0	9,791.0	18,674.3	8,995.3	77.3	76.5	-47.71	-9,671.4	590.6	1,189.2	1,032.0	157.20	7.565
19,760.0	9,791.0	18,734.3	8,995.4	77.7	76.9	-47.71	-9,731.4	590.1	1,189.2	1,031.1	158.11	7.522
19,800.0	9,791.1	18,774.3	8,995.4	78.0	77.2	-47.71	-9,771.4	589.8	1,189.2	1,030.5	158.72	7.493
19,855.0	9,791.1	18,829.3	8,995.4	78.5	77.7	-47.71	-9,826.4	589.4	1,189.3	1,029.7	159.55	7.454
19,900.0	9,791.1	18,874.3	8,995.4	78.8	78.0	-47.71	-9,871.4	589.0	1,189.3	1,029.0	160.23	7.422
19,950.0	9,791.1	18,924.3	8,995.4	79.2	78.4	-47.71	-9,921.4	588.6	1,189.3	1,028.3	160.98	7.387
20,000.0	9,791.2	18,974.3	8,995.5	79.5	78.7	-47.71	-9,971.4	588.2	1,189.3	1,027.5	161.74	7.353
20,045.0	9,791.2	19,019.3	8,995.5	79.9	79.1	-47.71	-10,016.4	587.8	1,189.3	1,026.8	162.42	7.322
20,100.0	9,791.2	19,074.3	8,995.5	80.3	79.5	-47.71	-10,071.4	587.3	1,189.3	1,026.0	163.25	7.285
20,140.0	9,791.2	19,114.3	8,995.5	80.6	79.8	-47.71	-10,111.4	587.0	1,189.3	1,025.4	163.86	7.258
20,200.0	9,791.3	19,174.3	8,995.6	81.0	80.2	-47.71	-10,171.4	586.5	1,189.3	1,024.5	164.77	7.218
20,235.0	9,791.3	19,209.3	8,995.6	81.3	80.5	-47.71	-10,206.4	586.2	1,189.3	1,024.0	165.30	7.195
20,300.0	9,791.3	19,274.3	8,995.6	81.8	81.0	-47.71	-10,271.4	585.7	1,189.3	1,023.0	166.28	7.152
20,330.0	9,791.3	19,304.3	8,995.6	82.0	81.2	-47.71	-10,301.4	585.4	1,189.3	1,022.5	166.74	7.133
20,400.0	9,791.4	19,374.3	8,995.7	82.6	81.7	-47.71	-10,371.4	584.9	1,189.3	1,021.5	167.80	7.088
20,425.0	9,791.4	19,399.3	8,995.7	82.7	81.9	-47.71	-10,396.4	584.6	1,189.3	1,021.1	168.18	7.072
20,500.0	9,791.4	19,474.3	8,995.7	83.3	82.5	-47.71	-10,471.4	584.0	1,189.3	1,020.0	169.32	7.024
20,520.0	9,791.4	19,494.3	8,995.7	83.5	82.6	-47.71	-10,491.4	583.9	1,189.3	1,019.7	169.62	7.012
20,600.0	9,791.5	19,574.3	8,995.7	84.1	83.2	-47.71	-10,571.4	583.2	1,189.3	1,018.5	170.83	6.962
20,615.0	9,791.5	19,589.3	8,995.8	84.2	83.3	-47.71	-10,586.4	583.1	1,189.3	1,018.2	171.06	6.952
20,700.0	9,791.5	19,674.3	8,995.8	84.8	84.0	-47.71	-10,671.4	582.4	1,189.3	1,017.0	172.35	6.900
20,710.0	9,791.5	19,684.3	8,995.8	84.9	84.0	-47.71	-10,681.4	582.3	1,189.3	1,016.8	172.50	6.894
20,800.0	9,791.6	19,774.3	8,995.8	85.6	84.7	-47.71	-10,771.4	581.6	1,189.3	1,015.4	173.87	6.840
20,805.0	9,791.6	19,779.3	8,995.8	85.6	84.7	-47.71	-10,776.4	581.5	1,189.3	1,015.4	173.94	6.837
20,900.0	9,791.6	19,874.3	8,995.9	86.3	85.4	-47.70	-10,871.4	580.7	1,189.3	1,013.9	175.39	6.781
20,995.0	9,791.7	19,969.3	8,995.9	87.0	86.2	-47.70	-10,966.4	579.9	1,189.3	1,012.5	176.83	6.726
21,000.0	9,791.7	19,974.3	8,995.9	87.1	86.2	-47.70	-10,971.4	579.9	1,189.3	1,012.4	176.91	6.723
21,090.0	9,791.7	20,064.3	8,996.0	87.7	86.9	-47.70	-11,061.4	579.2	1,189.3	1,011.0	178.27	6.671
21,100.0	9,791.7	20,074.3	8,996.0	87.8	86.9	-47.70	-11,071.4	579.1	1,189.3	1,010.9	178.43	6.666
21,185.0	9,791.8	20,159.3	8,996.0	88.5	87.6	-47.70	-11,156.4	578.4	1,189.3	1,009.6	179.72	6.618
21,200.0	9,791.8	20,174.3	8,996.0	88.6	87.7	-47.70	-11,171.4	578.3	1,189.3	1,009.4	179.95	6.609
21,280.0	9,791.8	20,254.3	8,996.1	89.2	88.3	-47.70	-11,251.4	577.6	1,189.3	1,008.2	181.16	6.565
21,300.0	9,791.8	20,274.3	8,996.1	89.3	88.4	-47.70	-11,271.4	577.4	1,189.3	1,007.9	181.47	6.554
21,375.0	9,791.9	20,349.3	8,996.1	89.9	89.0	-47.70	-11,346.4	576.8	1,189.3	1,006.7	182.61	6.513
21,400.0	9,791.9	20,374.3	8,996.1	90.1	89.2	-47.70	-11,371.4	576.6	1,189.3	1,006.4	182.99	6.500
21,470.0	9,791.9	20,444.3	8,996.2	90.6	89.7	-47.70	-11,441.4	576.0	1,189.3	1,005.3	184.05	6.462
21,500.0	9,791.9	20,474.3	8,996.2	90.8	89.9	-47.70	-11,471.4	575.8	1,189.3	1,004.8	184.51	6.446
21,565.0	9,792.0	20,539.3	8,996.2	91.3	90.4	-47.70	-11,536.4	575.2	1,189.4	1,003.9	185.50	6.412
21,600.0	9,792.0	20,574.3	8,996.2	91.6	90.7	-47.70	-11,571.4	575.0	1,189.4	1,003.3	186.03	6.393
21,660.0	9,792.0	20,634.3	8,996.2	92.0	91.1	-47.70	-11,631.4	574.5	1,189.4	1,002.4	186.94	6.362
21,700.0	9,792.1	20,674.3	8,996.3	92.3	91.4	-47.70	-11,671.4	574.1	1,189.4	1,001.8	187.55	6.341
21,755.0	9,792.1	20,729.3	8,996.3	92.8	91.8	-47.70	-11,726.4	573.7	1,189.4	1,001.0	188.39	6.313
21,800.0	9,792.1	20,774.3	8,996.3	93.1	92.2	-47.70	-11,771.4	573.3	1,189.4	1,000.3	189.08	6.290
21,850.0	9,792.1	20,824.3	8,996.3	93.5	92.6	-47.70	-11,821.4	572.9	1,189.4	999.5	189.84	6.265
21,900.0	9,792.2	20,874.3	8,996.4	93.9	92.9	-47.70	-11,871.4	572.5	1,189.4	998.8	190.60	6.240
21,945.0	9,792.2	20,919.3	8,996.4	94.2	93.3	-47.70	-11,916.4	572.1	1,189.4	998.1	191.28	6.218
22,000.0	9,792.2	20,974.3	8,996.4	94.6	93.7	-47.70	-11,971.4	571.6	1,189.4	997.3	192.12	6.191
22,040.0	9,792.2	21,014.3	8,996.4	94.9	94.0	-47.70	-12,011.4	571.3	1,189.4	996.6	192.73	6.171

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - 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
22,100.0	9,792.3	21,074.3	8,996.4	95.4	94.4	-47.70	-12,071.4	570.8	1,189.4	995.7	193.65	6.142	
22,135.0	9,792.3	21,109.3	8,996.5	95.6	94.7	-47.70	-12,106.4	570.5	1,189.4	995.2	194.18	6.125	
22,200.0	9,792.3	21,174.3	8,996.5	96.1	95.2	-47.70	-12,171.4	570.0	1,189.4	994.2	195.17	6.094	
22,230.0	9,792.3	21,204.3	8,996.5	96.3	95.4	-47.70	-12,201.4	569.8	1,189.4	993.8	195.63	6.080	
22,300.0	9,792.4	21,274.3	8,996.5	96.9	95.9	-47.70	-12,271.4	569.2	1,189.4	992.7	196.70	6.047	
22,325.0	9,792.4	21,299.3	8,996.6	97.1	96.1	-47.70	-12,296.4	569.0	1,189.4	992.3	197.08	6.035	
22,400.0	9,792.4	21,374.3	8,996.6	97.6	96.7	-47.70	-12,371.4	568.3	1,189.4	991.2	198.22	6.000	
22,420.0	9,792.4	21,394.3	8,996.6	97.8	96.8	-47.70	-12,391.4	568.2	1,189.4	990.9	198.53	5.991	
22,500.0	9,792.5	21,474.3	8,996.6	98.4	97.4	-47.70	-12,471.4	567.5	1,189.4	989.7	199.75	5.955	
22,515.0	9,792.5	21,489.3	8,996.6	98.5	97.6	-47.70	-12,486.3	567.4	1,189.4	989.4	199.98	5.948	
22,600.0	9,792.5	21,574.3	8,996.7	99.1	98.2	-47.70	-12,571.3	566.7	1,189.4	988.1	201.27	5.909	
22,610.0	9,792.5	21,584.3	8,996.7	99.2	98.3	-47.70	-12,581.3	566.6	1,189.4	988.0	201.43	5.905	
22,700.0	9,792.6	21,674.3	8,996.7	99.9	98.9	-47.70	-12,671.3	565.9	1,189.4	986.6	202.80	5.865	
22,705.0	9,792.6	21,679.3	8,996.7	99.9	99.0	-47.70	-12,676.3	565.8	1,189.4	986.5	202.88	5.863	
22,800.0	9,792.6	21,774.3	8,996.8	100.7	99.7	-47.70	-12,771.3	565.0	1,189.4	985.1	204.33	5.821	
22,895.0	9,792.7	21,869.3	8,996.8	101.4	100.4	-47.70	-12,866.3	564.3	1,189.4	983.6	205.78	5.780	
22,900.0	9,792.7	21,874.3	8,996.8	101.4	100.4	-47.70	-12,871.3	564.2	1,189.4	983.6	205.85	5.778	
22,990.0	9,792.7	21,964.3	8,996.9	102.1	101.1	-47.70	-12,961.3	563.5	1,189.4	982.2	207.23	5.740	
23,000.0	9,792.7	21,974.3	8,996.9	102.2	101.2	-47.70	-12,971.3	563.4	1,189.4	982.1	207.38	5.736	
23,085.0	9,792.8	22,059.3	8,996.9	102.8	101.8	-47.70	-13,056.3	562.7	1,189.4	980.8	208.68	5.700	
23,100.0	9,792.8	22,074.3	8,996.9	102.9	102.0	-47.70	-13,071.3	562.6	1,189.4	980.5	208.91	5.694	
23,180.0	9,792.8	22,154.3	8,997.0	103.5	102.6	-47.70	-13,151.3	561.9	1,189.4	979.3	210.13	5.661	
23,200.0	9,792.8	22,174.3	8,997.0	103.7	102.7	-47.70	-13,171.3	561.7	1,189.4	979.0	210.44	5.652	
23,275.0	9,792.9	22,249.3	8,997.0	104.2	103.3	-47.70	-13,246.3	561.1	1,189.4	977.9	211.58	5.622	
23,300.0	9,792.9	22,274.3	8,997.0	104.4	103.5	-47.70	-13,271.3	560.9	1,189.4	977.5	211.96	5.612	
23,370.0	9,792.9	22,344.3	8,997.0	105.0	104.0	-47.70	-13,341.3	560.3	1,189.5	976.4	213.03	5.583	
23,400.0	9,792.9	22,374.3	8,997.1	105.2	104.2	-47.70	-13,371.3	560.1	1,189.5	976.0	213.49	5.571	
23,465.0	9,793.0	22,439.3	8,997.1	105.7	104.7	-47.70	-13,436.3	559.6	1,189.5	975.0	214.49	5.546	
23,500.0	9,793.0	22,474.3	8,997.1	105.9	105.0	-47.70	-13,471.3	559.3	1,189.5	974.4	215.02	5.532	
23,560.0	9,793.0	22,534.3	8,997.1	106.4	105.4	-47.70	-13,531.3	558.8	1,189.5	973.5	215.94	5.508	
23,600.0	9,793.0	22,574.3	8,997.1	106.7	105.7	-47.70	-13,571.3	558.4	1,189.5	972.9	216.55	5.493	
23,655.0	9,793.1	22,629.3	8,997.2	107.1	106.1	-47.70	-13,626.3	558.0	1,189.5	972.1	217.39	5.472	
23,700.0	9,793.1	22,674.3	8,997.2	107.5	106.5	-47.70	-13,671.3	557.6	1,189.5	971.4	218.08	5.454	
23,750.0	9,793.1	22,724.3	8,997.2	107.8	106.8	-47.70	-13,721.3	557.2	1,189.5	970.6	218.84	5.435	
23,800.0	9,793.2	22,774.3	8,997.2	108.2	107.2	-47.70	-13,771.3	556.8	1,189.5	969.9	219.61	5.416	
23,845.0	9,793.2	22,819.3	8,997.3	108.6	107.6	-47.70	-13,816.3	556.4	1,189.5	969.2	220.30	5.399	
23,900.0	9,793.2	22,874.3	8,997.3	109.0	108.0	-47.70	-13,871.3	556.0	1,189.5	968.3	221.14	5.379	
23,940.0	9,793.2	22,914.3	8,997.3	109.3	108.3	-47.70	-13,911.3	555.6	1,189.5	967.7	221.75	5.364	
24,000.0	9,793.3	22,974.3	8,997.3	109.7	108.7	-47.70	-13,971.3	555.1	1,189.5	966.8	222.67	5.342	
24,035.0	9,793.3	23,009.3	8,997.3	110.0	109.0	-47.70	-14,006.3	554.9	1,189.5	966.3	223.20	5.329	
24,100.0	9,793.3	23,074.3	8,997.4	110.5	109.5	-47.70	-14,071.3	554.3	1,189.5	965.3	224.20	5.306	
24,130.0	9,793.3	23,104.3	8,997.4	110.7	109.7	-47.70	-14,101.3	554.1	1,189.5	964.8	224.66	5.295	
24,200.0	9,793.4	23,174.3	8,997.4	111.2	110.2	-47.70	-14,171.3	553.5	1,189.5	963.8	225.73	5.270	
24,225.0	9,793.4	23,199.3	8,997.4	111.4	110.4	-47.70	-14,196.3	553.3	1,189.5	963.4	226.11	5.261	
24,300.0	9,793.4	23,274.3	8,997.5	112.0	111.0	-47.70	-14,271.3	552.7	1,189.5	962.2	227.26	5.234	
24,320.0	9,793.4	23,294.3	8,997.5	112.2	111.1	-47.70	-14,291.3	552.5	1,189.5	961.9	227.57	5.227	
24,400.0	9,793.5	23,374.3	8,997.5	112.8	111.7	-47.70	-14,371.3	551.8	1,189.5	960.7	228.79	5.199	
24,415.0	9,793.5	23,389.3	8,997.5	112.9	111.9	-47.70	-14,386.3	551.7	1,189.5	960.5	229.02	5.194	
24,500.0	9,793.5	23,474.3	8,997.6	113.5	112.5	-47.70	-14,471.3	551.0	1,189.5	959.2	230.32	5.165	
24,510.0	9,793.5	23,484.3	8,997.6	113.6	112.6	-47.70	-14,481.3	550.9	1,189.5	959.0	230.48	5.161	
24,600.0	9,793.6	23,574.3	8,997.6	114.3	113.3	-47.70	-14,571.3	550.2	1,189.5	957.7	231.85	5.130	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1											Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)		Separation Factor
24,605.0	9,793.6	23,579.3	8,997.6	114.3	113.3	-47.70	-14,576.3	550.1	1,189.5	957.6	231.93	5.129	
24,700.0	9,793.6	23,674.3	8,997.7	115.0	114.0	-47.70	-14,671.3	549.4	1,189.5	956.1	233.39	5.097	
24,795.0	9,793.7	23,769.3	8,997.7	115.8	114.7	-47.70	-14,766.3	548.6	1,189.5	954.7	234.84	5.065	
24,800.0	9,793.7	23,774.3	8,997.7	115.8	114.8	-47.70	-14,771.3	548.5	1,189.5	954.6	234.92	5.064	
24,890.0	9,793.7	23,864.3	8,997.7	116.5	115.4	-47.70	-14,861.3	547.8	1,189.5	953.2	236.30	5.034	
24,900.0	9,793.7	23,874.3	8,997.8	116.6	115.5	-47.70	-14,871.3	547.7	1,189.5	953.1	236.45	5.031	
24,985.0	9,793.8	23,959.3	8,997.8	117.2	116.2	-47.70	-14,956.3	547.0	1,189.5	951.8	237.75	5.003	
25,000.0	9,793.8	23,974.3	8,997.8	117.3	116.3	-47.70	-14,971.3	546.9	1,189.5	951.6	237.98	4.998	
25,080.0	9,793.8	24,054.3	8,997.8	117.9	116.9	-47.70	-15,051.3	546.2	1,189.6	950.3	239.21	4.973	
25,100.0	9,793.8	24,074.3	8,997.8	118.1	117.0	-47.70	-15,071.3	546.1	1,189.6	950.0	239.52	4.966	
25,175.0	9,793.9	24,149.3	8,997.9	118.6	117.6	-47.70	-15,146.3	545.4	1,189.6	948.9	240.66	4.943	
25,200.0	9,793.9	24,174.3	8,997.9	118.8	117.8	-47.70	-15,171.3	545.2	1,189.6	948.5	241.05	4.935	
25,270.0	9,793.9	24,244.3	8,997.9	119.4	118.3	-47.70	-15,241.3	544.7	1,189.6	947.4	242.12	4.913	
25,278.2	9,793.9	24,252.5	8,997.9	119.4	118.4	-47.70	-15,249.4	544.6	1,189.6	947.3	242.25	4.911	
25,300.0	9,793.9	24,274.3	8,997.9	119.6	118.5	-47.70	-15,271.3	544.4	1,189.6	947.0	242.58	4.904	
25,365.0	9,794.0	24,339.3	8,998.0	120.1	119.0	-47.70	-15,336.3	543.9	1,189.6	946.0	243.58	4.884	
25,408.3	9,794.0	24,382.6	8,998.0	120.4	119.4	-47.70	-15,379.5	543.5	1,189.6	945.3	244.24	4.871 SF	

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-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	4.5	4.5	3.0	3.0	157.26	-148.9	62.4	161.4				
95.0	95.0	99.5	99.5	3.0	3.0	157.26	-148.9	62.4	161.4	155.4	6.04	26.738	
100.0	100.0	104.5	104.5	3.0	3.0	157.26	-148.9	62.4	161.4	155.4	6.04	26.710	
190.0	190.0	194.5	194.5	3.1	3.1	157.26	-148.9	62.4	161.4	155.2	6.27	25.769	
200.0	200.0	204.5	204.5	3.1	3.2	157.26	-148.9	62.4	161.4	155.1	6.30	25.638	
285.0	285.0	289.5	289.5	3.3	3.3	157.26	-148.9	62.4	161.4	154.9	6.50	24.819	
300.0	300.0	304.5	304.5	3.3	3.3	157.26	-148.9	62.4	161.4	154.9	6.55	24.666	
380.0	380.0	384.5	384.5	3.4	3.4	157.26	-148.9	62.4	161.4	154.7	6.74	23.957	
400.0	400.0	404.5	404.5	3.4	3.4	157.26	-148.9	62.4	161.4	154.7	6.79	23.775	
475.0	475.0	479.5	479.5	3.5	3.5	157.26	-148.9	62.4	161.4	154.5	6.97	23.161	
500.0	500.0	504.5	504.5	3.5	3.5	157.26	-148.9	62.4	161.4	154.4	7.03	22.955	
570.0	570.0	574.5	574.5	3.6	3.6	157.26	-148.9	62.4	161.4	154.2	7.20	22.424	
600.0	600.0	604.5	604.5	3.6	3.6	157.26	-148.9	62.4	161.4	154.2	7.27	22.196	
665.0	665.0	669.5	669.5	3.7	3.7	157.26	-148.9	62.4	161.4	154.0	7.43	21.738	
700.0	700.0	704.5	704.5	3.8	3.8	157.26	-148.9	62.4	161.4	153.9	7.51	21.492	
760.0	760.0	764.5	764.5	3.8	3.8	157.26	-148.9	62.4	161.4	153.8	7.65	21.097	
800.0	800.0	804.5	804.5	3.9	3.9	157.26	-148.9	62.4	161.4	153.7	7.75	20.836	
855.0	855.0	859.5	859.5	4.0	4.0	157.26	-148.9	62.4	161.4	153.6	7.88	20.497	
900.0	900.0	904.5	904.5	4.0	4.0	157.26	-148.9	62.4	161.4	153.5	7.98	20.223	
950.0	950.0	954.5	954.5	4.1	4.1	157.26	-148.9	62.4	161.4	153.3	8.10	19.934	
1,000.0	1,000.0	1,004.5	1,004.5	4.1	4.1	157.26	-148.9	62.4	161.4	153.2	8.22	19.649	
1,045.0	1,045.0	1,049.5	1,049.5	4.2	4.2	157.26	-148.9	62.4	161.4	153.1	8.32	19.404	
1,100.0	1,100.0	1,104.5	1,104.5	4.2	4.3	157.26	-148.9	62.4	161.4	153.0	8.45	19.109	
1,140.0	1,140.0	1,144.5	1,144.5	4.3	4.3	157.26	-148.9	62.4	161.4	152.9	8.54	18.905	
1,200.0	1,200.0	1,204.5	1,204.5	4.4	4.4	157.26	-148.9	62.4	161.4	152.8	8.68	18.602	
1,235.0	1,235.0	1,239.5	1,239.5	4.4	4.4	157.26	-148.9	62.4	161.4	152.7	8.76	18.432	
1,300.0	1,300.0	1,304.5	1,304.5	4.5	4.5	157.26	-148.9	62.4	161.4	152.5	8.91	18.123	
1,330.0	1,330.0	1,334.5	1,334.5	4.5	4.5	157.26	-148.9	62.4	161.4	152.5	8.98	17.985	
1,400.0	1,400.0	1,404.5	1,404.5	4.6	4.6	157.26	-148.9	62.4	161.4	152.3	9.14	17.670	
1,425.0	1,425.0	1,429.5	1,429.5	4.6	4.6	157.26	-148.9	62.4	161.4	152.3	9.19	17.561	
1,500.0	1,500.0	1,504.7	1,504.7	4.7	4.7	157.26	-148.9	62.4	161.4	152.1	9.37	17.235	
1,513.9	1,513.9	1,519.1	1,519.1	4.7	4.8	-178.30	-148.8	62.4	161.4	152.0	9.42	17.146 CC	
1,520.0	1,520.0	1,525.5	1,525.5	4.8	4.8	-178.31	-148.8	62.4	161.4	152.0	9.44	17.108 ES	
1,600.0	1,600.0	1,608.9	1,608.9	4.9	4.9	-178.81	-147.0	63.1	161.8	152.0	9.72	16.641	
1,615.0	1,615.0	1,624.5	1,624.5	4.9	5.0	-178.97	-146.4	63.4	161.9	152.1	9.79	16.535	
1,700.0	1,699.8	1,713.0	1,712.8	5.2	5.2	179.72	-141.5	65.2	163.0	152.8	10.19	16.003	
1,710.0	1,709.8	1,723.4	1,723.2	5.2	5.2	179.53	-140.8	65.5	163.2	153.0	10.23	15.948	
1,800.0	1,799.5	1,816.9	1,816.2	5.4	5.5	177.36	-132.5	68.6	165.4	154.8	10.63	15.556	
1,805.0	1,804.4	1,822.0	1,821.4	5.5	5.5	177.22	-132.0	68.8	165.5	154.9	10.65	15.545	
1,900.0	1,898.7	1,917.7	1,916.3	5.7	5.6	174.51	-121.2	72.9	169.7	158.7	11.01	15.422	
1,995.0	1,992.5	2,012.1	2,010.0	6.0	5.9	172.05	-110.5	77.0	177.3	165.9	11.45	15.490	
2,000.0	1,997.5	2,017.1	2,015.0	6.1	5.9	171.93	-109.9	77.3	177.8	166.3	11.47	15.502	
2,050.0	2,046.6	2,066.6	2,064.1	6.2	6.0	170.79	-104.3	79.4	183.2	171.6	11.64	15.738	
2,090.0	2,085.9	2,106.3	2,103.5	6.2	6.1	169.96	-99.8	81.1	188.0	176.2	11.78	15.955	
2,100.0	2,095.7	2,116.2	2,113.3	6.3	6.1	169.75	-98.6	81.6	189.2	177.4	11.82	16.009	
2,185.0	2,179.1	2,200.4	2,196.9	6.5	6.4	168.13	-89.1	85.2	199.4	187.2	12.18	16.366	
2,200.0	2,193.9	2,215.2	2,211.6	6.5	6.4	167.86	-87.4	85.9	201.2	189.0	12.25	16.427	
2,280.0	2,272.4	2,294.5	2,290.3	6.8	6.6	166.50	-78.3	89.3	211.0	198.4	12.61	16.735	
2,300.0	2,292.0	2,314.3	2,310.0	6.8	6.7	166.18	-76.1	90.2	213.4	200.7	12.70	16.810	
2,375.0	2,365.7	2,388.6	2,383.7	7.1	6.9	165.05	-67.6	93.4	222.7	209.7	13.04	17.075	
2,400.0	2,390.2	2,413.4	2,408.3	7.2	7.0	164.69	-64.8	94.5	225.8	212.7	13.16	17.161	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
2,470.0	2,458.9	2,482.7	2,477.1	7.4	7.2	163.74		-56.9	97.5	234.6	221.1	13.49	17.389
2,500.0	2,488.4	2,512.4	2,506.6	7.5	7.3	163.35		-53.5	98.8	238.4	224.7	13.63	17.484
2,565.0	2,552.2	2,576.8	2,570.5	7.7	7.5	162.55		-46.2	101.6	246.6	232.6	13.95	17.680
2,600.0	2,586.5	2,611.5	2,605.0	7.9	7.6	162.14		-42.2	103.1	251.0	236.9	14.11	17.783
2,660.0	2,645.4	2,670.9	2,664.0	8.1	7.8	161.48		-35.5	105.7	258.6	244.2	14.41	17.950
2,700.0	2,684.7	2,710.6	2,703.3	8.2	7.9	161.05		-31.0	107.4	263.7	249.1	14.60	18.060
2,755.0	2,738.7	2,765.1	2,757.4	8.4	8.1	160.50		-24.8	109.7	270.8	255.9	14.88	18.203
2,800.0	2,782.8	2,809.6	2,801.6	8.6	8.3	160.07		-19.7	111.7	276.6	261.5	15.10	18.317
2,850.0	2,831.9	2,859.2	2,850.8	8.8	8.5	159.60		-14.0	113.8	283.0	267.7	15.35	18.439
2,900.0	2,881.0	2,908.7	2,899.9	9.0	8.6	159.16		-8.4	116.0	289.5	273.9	15.60	18.558
2,945.0	2,925.2	2,953.3	2,944.2	9.1	8.8	158.78		-3.3	117.9	295.3	279.5	15.82	18.661
3,000.0	2,979.2	3,007.8	2,998.3	9.4	9.0	158.34		2.9	120.3	302.4	286.3	16.10	18.784
3,040.0	3,018.4	3,047.4	3,037.6	9.5	9.1	158.03		7.4	122.0	307.6	291.3	16.30	18.870
3,100.0	3,077.3	3,106.8	3,096.6	9.7	9.3	157.58		14.1	124.6	315.5	298.9	16.61	18.996
3,135.0	3,111.7	3,141.5	3,131.0	9.9	9.5	157.33		18.1	126.1	320.0	303.2	16.78	19.066
3,200.0	3,175.5	3,205.9	3,194.9	10.1	9.7	156.89		25.4	128.9	328.5	311.4	17.12	19.195
3,230.0	3,205.0	3,235.6	3,224.4	10.3	9.8	156.69		28.8	130.2	332.5	315.2	17.27	19.253
3,300.0	3,273.7	3,305.0	3,293.3	10.6	10.1	156.24		36.7	133.2	341.6	324.0	17.63	19.384
3,325.0	3,298.2	3,329.7	3,317.8	10.7	10.2	156.09		39.5	134.3	344.9	327.2	17.75	19.429
3,400.0	3,371.8	3,404.0	3,391.6	11.0	10.4	155.65		48.0	137.5	354.8	336.7	18.14	19.562
3,420.0	3,391.5	3,423.8	3,411.2	11.0	10.5	155.53		50.2	138.4	357.4	339.2	18.24	19.597
3,500.0	3,470.0	3,503.1	3,489.9	11.4	10.8	155.09		59.3	141.8	368.0	349.3	18.65	19.732
3,515.0	3,484.7	3,518.0	3,504.7	11.4	10.9	155.02		61.0	142.4	370.0	351.2	18.73	19.756
3,600.0	3,568.2	3,602.2	3,588.2	11.8	11.2	154.58		70.5	146.1	381.2	362.1	19.16	19.892
3,610.0	3,578.0	3,612.1	3,598.1	11.8	11.2	154.53		71.7	146.5	382.5	363.3	19.22	19.908
3,700.0	3,666.3	3,701.2	3,686.6	12.2	11.6	154.10		81.8	150.4	394.5	374.8	19.68	20.045
3,705.0	3,671.2	3,706.2	3,691.5	12.2	11.6	154.08		82.4	150.6	395.1	375.4	19.70	20.052
3,800.0	3,764.5	3,800.3	3,784.9	12.6	11.9	153.65		93.1	154.7	407.7	387.5	20.19	20.191
3,895.0	3,857.7	3,894.4	3,878.3	13.1	12.3	153.25		103.8	158.8	420.4	399.7	20.68	20.323
3,900.0	3,862.6	3,899.4	3,883.2	13.1	12.3	153.23		104.4	159.0	421.0	400.3	20.71	20.330
3,990.0	3,951.0	3,988.5	3,971.7	13.5	12.7	152.87		114.5	162.9	433.0	411.9	21.18	20.449
4,000.0	3,960.8	3,998.4	3,981.5	13.5	12.7	152.83		115.7	163.3	434.4	413.1	21.23	20.462
4,085.0	4,044.2	4,082.6	4,065.1	13.9	13.0	152.52		125.2	167.0	445.7	424.0	21.66	20.572
4,097.4	4,056.4	4,094.9	4,077.3	13.9	13.1	152.47		126.6	167.5	447.4	425.6	21.73	20.588
4,100.0	4,059.0	4,097.5	4,079.9	13.9	13.1	152.47		126.9	167.6	447.7	426.0	21.74	20.593
4,180.0	4,137.7	4,176.9	4,158.6	14.3	13.4	152.21		136.0	171.1	457.3	435.2	22.16	20.639
4,200.0	4,157.5	4,196.7	4,178.4	14.4	13.5	152.12		138.2	171.9	459.4	437.2	22.26	20.639
4,275.0	4,231.7	4,269.7	4,250.8	14.7	13.8	151.79		146.1	174.9	466.4	443.8	22.62	20.623
4,300.0	4,256.5	4,294.0	4,275.0	14.8	13.9	151.67		148.6	175.9	468.4	445.7	22.73	20.603
4,370.0	4,326.1	4,362.2	4,342.9	15.1	14.1	151.36		154.9	178.3	473.1	450.1	23.04	20.533
4,400.0	4,356.0	4,391.4	4,372.0	15.3	14.2	151.22		157.4	179.2	474.8	451.6	23.17	20.488
4,465.0	4,420.8	4,454.9	4,435.2	15.5	14.5	150.91		162.3	181.1	477.6	454.2	23.43	20.380
4,500.0	4,455.7	4,489.1	4,469.3	15.6	14.6	150.75		164.7	182.0	478.7	455.1	23.57	20.305
4,560.0	4,515.7	4,547.7	4,527.8	15.8	14.8	150.45		168.3	183.4	479.8	456.0	23.78	20.177
4,600.0	4,555.6	4,586.8	4,566.9	16.0	14.9	150.25		170.4	184.2	480.0	456.1	23.91	20.073
4,647.4	4,603.0	4,633.1	4,613.1	16.0	15.1	125.54		172.6	185.0	479.7	455.7	23.99	19.999
4,655.0	4,610.6	4,640.6	4,620.6	16.0	15.1	125.50		172.9	185.1	479.6	455.6	23.99	19.991
4,700.0	4,655.6	4,684.6	4,664.6	16.1	15.2	125.29		174.6	185.8	479.2	455.1	24.03	19.943
4,750.0	4,705.6	4,733.6	4,713.5	16.1	15.4	125.10		176.1	186.4	478.7	454.7	24.08	19.879
4,800.0	4,755.6	4,782.6	4,762.5	16.1	15.5	124.97		177.2	186.8	478.5	454.3	24.15	19.814
4,845.0	4,800.6	4,826.7	4,806.6	16.1	15.6	124.88		177.9	187.0	478.3	454.1	24.21	19.758

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
4,900.0	4,855.6	4,880.6	4,860.5	16.2	15.7	124.83	178.3	187.2	478.2	453.9	24.28	19.691	
4,924.1	4,879.7	4,904.3	4,884.2	16.2	15.7	124.83	178.3	187.2	478.2	453.8	24.32	19.663	
4,940.0	4,895.6	4,920.3	4,900.1	16.2	15.8	124.83	178.3	187.2	478.2	453.8	24.34	19.642	
5,000.0	4,955.6	4,980.3	4,960.1	16.2	15.8	124.83	178.3	187.2	478.2	453.7	24.44	19.567	
5,035.0	4,990.6	5,015.3	4,995.1	16.2	15.8	124.83	178.3	187.2	478.2	453.7	24.49	19.524	
5,100.0	5,055.6	5,080.3	5,060.1	16.3	15.8	124.83	178.3	187.2	478.2	453.6	24.59	19.443	
5,130.0	5,085.6	5,110.3	5,090.1	16.3	15.9	124.83	178.3	187.2	478.2	453.5	24.64	19.406	
5,200.0	5,155.6	5,180.3	5,160.1	16.3	15.9	124.83	178.3	187.2	478.2	453.4	24.75	19.321	
5,225.0	5,180.6	5,205.3	5,185.1	16.4	15.9	124.83	178.3	187.2	478.2	453.4	24.79	19.290	
5,300.0	5,255.6	5,280.3	5,260.1	16.4	16.0	124.83	178.3	187.2	478.2	453.3	24.90	19.200	
5,320.0	5,275.6	5,300.3	5,280.1	16.4	16.0	124.83	178.3	187.2	478.2	453.2	24.94	19.176	
5,400.0	5,355.6	5,380.3	5,360.1	16.5	16.0	124.83	178.3	187.2	478.2	453.1	25.06	19.080	
5,415.0	5,370.6	5,395.3	5,375.1	16.5	16.0	124.83	178.3	187.2	478.2	453.1	25.08	19.062	
5,500.0	5,455.6	5,480.3	5,460.1	16.5	16.1	124.83	178.3	187.2	478.2	452.9	25.22	18.962	
5,510.0	5,465.6	5,490.3	5,470.1	16.5	16.1	124.83	178.3	187.2	478.2	452.9	25.23	18.951	
5,600.0	5,555.6	5,580.3	5,560.1	16.6	16.1	124.83	178.3	187.2	478.2	452.8	25.37	18.846	
5,605.0	5,560.6	5,585.3	5,565.1	16.6	16.2	124.83	178.3	187.2	478.2	452.8	25.38	18.840	
5,700.0	5,655.6	5,680.3	5,660.1	16.6	16.2	124.83	178.3	187.2	478.2	452.6	25.53	18.731	
5,795.0	5,750.6	5,775.3	5,755.1	16.7	16.3	124.83	178.3	187.2	478.2	452.5	25.68	18.623	
5,800.0	5,755.6	5,780.3	5,760.1	16.7	16.3	124.83	178.3	187.2	478.2	452.5	25.68	18.617	
5,890.0	5,845.6	5,870.3	5,850.1	16.7	16.3	124.83	178.3	187.2	478.2	452.3	25.82	18.516	
5,900.0	5,855.6	5,880.3	5,860.1	16.8	16.3	124.83	178.3	187.2	478.2	452.3	25.84	18.505	
5,985.0	5,940.6	5,965.3	5,945.1	16.8	16.4	124.83	178.3	187.2	478.2	452.2	25.97	18.411	
6,000.0	5,955.6	5,980.3	5,960.1	16.8	16.4	124.83	178.3	187.2	478.2	452.2	26.00	18.394	
6,080.0	6,035.6	6,060.3	6,040.1	16.9	16.4	124.83	178.3	187.2	478.2	452.0	26.12	18.306	
6,100.0	6,055.6	6,080.3	6,060.1	16.9	16.5	124.83	178.3	187.2	478.2	452.0	26.15	18.284	
6,175.0	6,130.6	6,155.3	6,135.1	16.9	16.5	124.83	178.3	187.2	478.2	451.9	26.27	18.203	
6,200.0	6,155.6	6,180.3	6,160.1	16.9	16.5	124.83	178.3	187.2	478.2	451.9	26.31	18.176	
6,270.0	6,225.6	6,250.3	6,230.1	17.0	16.6	124.83	178.3	187.2	478.2	451.7	26.42	18.101	
6,300.0	6,255.6	6,280.3	6,260.1	17.0	16.6	124.83	178.3	187.2	478.2	451.7	26.46	18.069	
6,365.0	6,320.6	6,345.3	6,325.1	17.0	16.6	124.83	178.3	187.2	478.2	451.6	26.56	18.000	
6,400.0	6,355.6	6,380.3	6,360.1	17.0	16.6	124.83	178.3	187.2	478.2	451.5	26.62	17.963	
6,460.0	6,415.6	6,440.3	6,420.1	17.1	16.7	124.83	178.3	187.2	478.2	451.5	26.71	17.901	
6,500.0	6,455.6	6,480.3	6,460.1	17.1	16.7	124.83	178.3	187.2	478.2	451.4	26.77	17.859	
6,555.0	6,510.6	6,535.3	6,515.1	17.1	16.7	124.83	178.3	187.2	478.2	451.3	26.86	17.802	
6,600.0	6,555.6	6,580.3	6,560.1	17.2	16.8	124.83	178.3	187.2	478.2	451.2	26.93	17.756	
6,650.0	6,605.6	6,630.3	6,610.1	17.2	16.8	124.83	178.3	187.2	478.2	451.2	27.01	17.704	
6,700.0	6,655.6	6,680.3	6,660.1	17.2	16.8	124.83	178.3	187.2	478.2	451.1	27.09	17.653	
6,745.0	6,700.6	6,725.3	6,705.1	17.3	16.9	124.83	178.3	187.2	478.2	451.0	27.16	17.608	
6,800.0	6,755.6	6,780.3	6,760.1	17.3	16.9	124.83	178.3	187.2	478.2	450.9	27.24	17.553	
6,840.0	6,795.6	6,820.3	6,800.1	17.3	16.9	124.83	178.3	187.2	478.2	450.9	27.30	17.512	
6,900.0	6,855.6	6,880.3	6,860.1	17.4	17.0	124.83	178.3	187.2	478.2	450.8	27.40	17.453	
6,935.0	6,890.6	6,915.3	6,895.1	17.4	17.0	124.83	178.3	187.2	478.2	450.7	27.45	17.418	
7,000.0	6,955.6	6,980.3	6,960.1	17.4	17.0	124.83	178.3	187.2	478.2	450.6	27.55	17.354	
7,030.0	6,985.6	7,010.3	6,990.1	17.4	17.0	124.83	178.3	187.2	478.2	450.6	27.60	17.325	
7,100.0	7,055.6	7,080.3	7,060.1	17.5	17.1	124.83	178.3	187.2	478.2	450.5	27.71	17.256	
7,125.0	7,080.6	7,105.3	7,085.1	17.5	17.1	124.83	178.3	187.2	478.2	450.4	27.75	17.232	
7,200.0	7,155.6	7,180.3	7,160.1	17.5	17.1	124.83	178.3	187.2	478.2	450.3	27.87	17.160	
7,220.0	7,175.6	7,200.3	7,180.1	17.6	17.2	124.83	178.3	187.2	478.2	450.3	27.90	17.141	
7,300.0	7,255.6	7,280.3	7,260.1	17.6	17.2	124.83	178.3	187.2	478.2	450.1	28.02	17.064	
7,315.0	7,270.6	7,295.3	7,275.1	17.6	17.2	124.83	178.3	187.2	478.2	450.1	28.04	17.050	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-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
7,400.0	7,355.6	7,380.3	7,360.1	17.7	17.3	124.83	178.3	187.2	478.2	450.0	28.18	16.970	
7,410.0	7,365.6	7,390.3	7,370.1	17.7	17.3	124.83	178.3	187.2	478.2	450.0	28.19	16.961	
7,500.0	7,455.6	7,480.3	7,460.1	17.7	17.3	124.83	178.3	187.2	478.2	449.8	28.33	16.877	
7,505.0	7,460.6	7,485.3	7,465.1	17.7	17.3	124.83	178.3	187.2	478.2	449.8	28.34	16.872	
7,600.0	7,555.6	7,580.3	7,560.1	17.8	17.4	124.83	178.3	187.2	478.2	449.7	28.49	16.784	
7,695.0	7,650.6	7,675.3	7,655.1	17.8	17.5	124.83	178.3	187.2	478.2	449.5	28.64	16.697	
7,700.0	7,655.6	7,680.3	7,660.1	17.8	17.5	124.83	178.3	187.2	478.2	449.5	28.64	16.693	
7,790.0	7,745.6	7,770.3	7,750.1	17.9	17.5	124.83	178.3	187.2	478.2	449.4	28.79	16.611	
7,800.0	7,755.6	7,780.3	7,760.1	17.9	17.5	124.83	178.3	187.2	478.2	449.4	28.80	16.602	
7,885.0	7,840.6	7,865.3	7,845.1	18.0	17.6	124.83	178.3	187.2	478.2	449.2	28.93	16.526	
7,900.0	7,855.6	7,880.3	7,860.1	18.0	17.6	124.83	178.3	187.2	478.2	449.2	28.96	16.513	
7,980.0	7,935.6	7,960.3	7,940.1	18.0	17.6	124.83	178.3	187.2	478.2	449.1	29.08	16.442	
8,000.0	7,955.6	7,980.3	7,960.1	18.0	17.7	124.83	178.3	187.2	478.2	449.1	29.11	16.424	
8,075.0	8,030.6	8,055.3	8,035.1	18.1	17.7	124.83	178.3	187.2	478.2	448.9	29.23	16.359	
8,100.0	8,055.6	8,080.3	8,060.1	18.1	17.7	124.83	178.3	187.2	478.2	448.9	29.27	16.337	
8,170.0	8,125.6	8,150.3	8,130.1	18.1	17.8	124.83	178.3	187.2	478.2	448.8	29.38	16.276	
8,200.0	8,155.6	8,180.3	8,160.1	18.2	17.8	124.83	178.3	187.2	478.2	448.7	29.42	16.250	
8,265.0	8,220.6	8,245.3	8,225.1	18.2	17.8	124.83	178.3	187.2	478.2	448.6	29.53	16.194	
8,300.0	8,255.6	8,280.3	8,260.1	18.2	17.8	124.83	178.3	187.2	478.2	448.6	29.58	16.164	
8,360.0	8,315.6	8,340.3	8,320.1	18.3	17.9	124.83	178.3	187.2	478.2	448.5	29.67	16.113	
8,400.0	8,355.6	8,380.3	8,360.1	18.3	17.9	124.83	178.3	187.2	478.2	448.4	29.74	16.080	
8,406.9	8,362.5	8,387.1	8,367.0	18.3	17.9	124.83	178.3	187.2	478.2	448.4	29.75	16.074	
8,455.0	8,410.6	8,433.3	8,413.2	18.3	17.9	124.83	178.3	187.2	478.2	448.4	29.80	16.047	
8,500.0	8,455.6	8,463.8	8,443.7	18.4	18.0	124.93	177.2	187.2	479.0	449.2	29.80	16.076	
8,550.0	8,505.6	8,500.0	8,479.7	18.4	18.0	125.26	173.9	187.2	481.6	451.8	29.84	16.137	
8,600.0	8,555.6	8,530.8	8,510.2	18.4	18.0	125.71	169.3	187.1	485.9	456.0	29.88	16.259	
8,645.0	8,600.6	8,560.1	8,538.9	18.4	18.1	126.28	163.4	187.1	491.2	461.3	29.95	16.402	
8,700.0	8,655.6	8,600.0	8,577.4	18.5	18.1	127.26	153.0	187.0	499.8	469.7	30.09	16.610	
8,740.0	8,695.6	8,619.7	8,596.1	18.5	18.2	127.82	146.9	186.9	507.3	477.2	30.13	16.836	
8,800.0	8,755.6	8,650.0	8,624.5	18.5	18.2	128.79	136.3	186.9	521.1	490.8	30.23	17.236	
8,835.0	8,790.6	8,675.3	8,647.7	18.6	18.2	129.67	126.2	186.8	530.3	499.9	30.36	17.465	
8,900.0	8,855.6	8,710.7	8,679.4	18.6	18.3	131.02	110.5	186.6	550.0	519.5	30.53	18.013	
8,930.0	8,885.6	8,726.3	8,693.1	18.6	18.3	131.64	102.9	186.6	560.2	529.6	30.61	18.298	
9,000.0	8,955.6	8,761.0	8,722.6	18.7	18.4	133.10	84.9	186.4	586.7	555.9	30.81	19.043	
9,025.0	8,980.6	8,772.7	8,732.4	18.7	18.4	133.60	78.4	186.4	597.0	566.2	30.88	19.335	
9,100.0	9,055.6	8,800.0	8,754.5	18.7	18.4	134.81	62.4	186.2	630.9	599.8	31.05	20.321	
9,120.0	9,075.6	8,814.4	8,765.9	18.8	18.4	135.46	53.6	186.2	640.5	609.4	31.15	20.562	
9,200.0	9,155.6	8,850.0	8,793.1	18.8	18.5	137.08	30.6	186.0	681.9	650.5	31.41	21.711	
9,215.0	9,170.6	8,850.0	8,793.1	18.8	18.5	137.08	30.6	186.0	690.1	658.7	31.41	21.970	
9,257.4	9,213.0	8,867.2	8,805.7	18.8	18.5	137.88	18.8	185.9	714.0	682.4	31.54	22.637	
9,300.0	9,255.6	8,882.5	8,816.5	18.9	18.5	-40.02	8.1	185.8	738.1	706.7	31.43	23.485	
9,310.0	9,265.6	8,886.1	8,819.1	18.9	18.5	-39.45	5.5	185.8	743.6	712.2	31.45	23.642	
9,350.0	9,305.2	8,900.0	8,828.7	18.9	18.6	-37.37	-4.5	185.7	765.2	733.6	31.55	24.252	
9,400.0	9,354.2	8,919.3	8,841.5	19.0	18.6	-35.04	-18.8	185.6	790.7	759.0	31.68	24.961	
9,405.0	9,359.0	8,921.1	8,842.8	19.0	18.6	-34.83	-20.3	185.6	793.1	761.4	31.69	25.030	
9,450.0	9,402.0	8,950.0	8,861.1	19.1	18.6	-32.78	-42.6	185.4	814.7	782.8	31.86	25.572	
9,500.0	9,448.5	8,950.0	8,861.1	19.1	18.6	-31.49	-42.6	185.4	836.6	804.7	31.89	26.237	
9,550.0	9,493.1	8,976.5	8,876.9	19.2	18.6	-29.91	-63.9	185.2	856.6	824.6	32.05	26.729	
9,595.0	9,531.4	9,000.0	8,890.0	19.2	18.7	-28.72	-83.3	185.0	873.0	840.8	32.19	27.118	
9,600.0	9,535.6	9,000.0	8,890.0	19.3	18.7	-28.63	-83.3	185.0	874.7	842.5	32.20	27.166	
9,650.0	9,575.6	9,015.6	8,898.3	19.3	18.7	-27.66	-96.5	184.9	890.6	858.3	32.32	27.553	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,690.0	9,605.7	9,031.4	8,906.4	19.4	18.7	-26.98	-110.2	184.8	901.8	869.4	32.44	27.797		
9,700.0	9,612.9	9,050.0	8,915.3	19.4	18.7	-26.70	-126.4	184.7	904.7	872.2	32.52	27.816		
9,750.0	9,647.2	9,050.0	8,915.3	19.4	18.7	-26.18	-126.4	184.7	916.0	883.4	32.62	28.083		
9,785.0	9,669.2	9,069.2	8,924.0	19.5	18.7	-25.76	-143.6	184.5	922.7	889.9	32.75	28.174		
9,800.0	9,678.1	9,075.2	8,926.6	19.5	18.8	-25.62	-149.0	184.5	925.2	892.4	32.80	28.207		
9,850.0	9,705.5	9,100.0	8,936.8	19.6	18.8	-25.22	-171.6	184.3	932.2	899.2	32.99	28.258		
9,880.0	9,720.2	9,100.0	8,936.8	19.6	18.8	-25.09	-171.6	184.3	935.3	902.2	33.07	28.281		
9,900.0	9,729.1	9,115.3	8,942.6	19.6	18.8	-24.99	-185.7	184.2	936.8	903.6	33.16	28.248		
9,950.0	9,748.9	9,150.0	8,954.2	19.6	18.8	-24.85	-218.4	183.9	939.4	906.0	33.39	28.136		
9,975.0	9,757.2	9,150.0	8,954.2	19.7	18.8	-24.85	-218.4	183.9	939.3	905.9	33.46	28.070		
10,000.0	9,764.5	9,150.0	8,954.2	19.7	18.8	-24.86	-218.4	183.9	939.0	905.5	33.55	27.990		
10,050.0	9,776.0	9,175.6	8,961.5	19.7	18.8	-25.00	-242.9	183.7	936.5	902.7	33.76	27.737		
10,070.0	9,779.3	9,183.6	8,963.6	19.7	18.8	-25.09	-250.7	183.7	934.9	901.0	33.85	27.620		
10,100.0	9,783.1	9,200.0	8,967.5	19.7	18.9	-25.28	-266.6	183.5	931.7	897.7	33.98	27.421		
10,150.0	9,786.0	9,215.7	8,970.8	19.8	18.9	-25.66	-281.9	183.4	924.5	890.3	34.18	27.045		
10,157.1	9,786.0	9,218.5	8,971.3	19.8	18.9	-25.73	-284.7	183.4	923.3	889.1	34.21	26.989		
10,165.0	9,786.0	9,221.7	8,971.9	19.8	18.9	-25.74	-287.8	183.3	922.0	887.7	34.24	26.929		
10,200.0	9,786.0	9,250.0	8,976.5	19.8	18.9	-25.87	-315.7	183.1	916.7	882.4	34.37	26.673		
10,260.0	9,786.1	9,250.0	8,976.5	19.8	18.9	-25.87	-315.7	183.1	909.0	874.4	34.59	26.276		
10,300.0	9,786.1	9,276.5	8,979.6	19.8	18.9	-25.95	-342.1	182.9	905.0	870.3	34.77	26.031		
10,355.0	9,786.1	9,300.0	8,981.3	19.9	18.9	-26.00	-365.5	182.7	901.5	866.5	35.03	25.737		
10,400.0	9,786.1	9,317.9	8,981.9	19.9	18.9	-26.02	-383.3	182.6	900.1	864.8	35.24	25.545		
10,427.5	9,786.1	9,329.7	8,982.0	19.9	18.9	-26.02	-395.2	182.5	899.9	864.5	35.37	25.439		
10,450.0	9,786.2	9,352.3	8,982.0	19.9	18.9	-26.02	-417.8	182.3	899.9	864.4	35.48	25.365		
10,500.0	9,786.2	9,402.3	8,982.0	19.9	18.9	-26.02	-467.8	181.9	899.9	864.1	35.71	25.200		
10,545.0	9,786.2	9,447.3	8,982.1	20.0	19.0	-26.02	-512.8	181.5	899.9	863.9	35.95	25.034		
10,600.0	9,786.2	9,502.3	8,982.1	20.0	19.0	-26.02	-567.8	181.0	899.9	863.6	36.24	24.834		
10,640.0	9,786.3	9,542.3	8,982.1	20.0	19.0	-26.02	-607.8	180.7	899.9	863.4	36.47	24.674		
10,700.0	9,786.3	9,602.3	8,982.1	20.1	19.0	-26.02	-667.8	180.2	899.9	863.0	36.82	24.439		
10,735.0	9,786.3	9,637.3	8,982.1	20.1	19.0	-26.02	-702.8	179.9	899.9	862.8	37.05	24.291		
10,800.0	9,786.3	9,702.3	8,982.2	20.2	19.1	-26.02	-767.8	179.4	899.9	862.4	37.46	24.020		
10,830.0	9,786.4	9,732.3	8,982.2	20.2	19.1	-26.02	-797.8	179.1	899.9	862.2	37.67	23.887		
10,900.0	9,786.4	9,802.3	8,982.2	20.3	19.1	-26.02	-867.8	178.6	899.9	861.7	38.16	23.582		
10,925.0	9,786.4	9,827.3	8,982.2	20.3	19.1	-26.02	-892.8	178.4	899.9	861.5	38.35	23.467		
11,000.0	9,786.4	9,902.3	8,982.3	20.4	19.2	-26.02	-967.8	177.7	899.9	861.0	38.91	23.129		
11,020.0	9,786.5	9,922.3	8,982.3	20.4	19.2	-26.02	-987.7	177.6	899.9	860.8	39.07	23.035		
11,100.0	9,786.5	10,002.3	8,982.3	20.5	19.3	-26.02	-1,067.7	176.9	899.9	860.2	39.70	22.667		
11,115.0	9,786.5	10,017.3	8,982.3	20.6	19.3	-26.02	-1,082.7	176.8	899.9	860.1	39.83	22.595		
11,200.0	9,786.5	10,102.3	8,982.4	20.7	19.4	-26.02	-1,167.7	176.1	899.9	859.4	40.54	22.198		
11,210.0	9,786.6	10,112.3	8,982.4	20.7	19.4	-26.02	-1,177.7	176.0	899.9	859.3	40.63	22.149		
11,300.0	9,786.6	10,202.3	8,982.4	20.9	19.5	-26.02	-1,267.7	175.3	899.9	858.5	41.42	21.725		
11,305.0	9,786.6	10,207.3	8,982.4	20.9	19.5	-26.02	-1,272.7	175.2	899.9	858.4	41.47	21.701		
11,400.0	9,786.7	10,302.3	8,982.5	21.1	19.6	-26.02	-1,367.7	174.4	899.9	857.6	42.34	21.253		
11,495.0	9,786.7	10,397.3	8,982.5	21.4	19.8	-26.02	-1,462.7	173.6	899.9	856.7	43.25	20.806		
11,500.0	9,786.7	10,402.3	8,982.5	21.4	19.8	-26.02	-1,467.7	173.6	899.9	856.6	43.30	20.783		
11,590.0	9,786.8	10,492.3	8,982.5	21.6	20.0	-26.02	-1,557.7	172.9	899.9	855.7	44.19	20.363		
11,600.0	9,786.8	10,502.3	8,982.5	21.7	20.0	-26.02	-1,567.7	172.8	899.9	855.6	44.29	20.317		
11,685.0	9,786.8	10,587.3	8,982.6	21.9	20.2	-26.02	-1,652.7	172.1	899.9	854.8	45.16	19.925		
11,700.0	9,786.8	10,602.3	8,982.6	22.0	20.2	-26.02	-1,667.7	172.0	899.9	854.6	45.32	19.858		
11,780.0	9,786.9	10,682.3	8,982.6	22.3	20.5	-26.02	-1,747.7	171.3	899.9	853.8	46.16	19.495		
11,800.0	9,786.9	10,702.3	8,982.6	22.4	20.5	-26.02	-1,767.7	171.1	899.9	853.6	46.37	19.406		

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-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	
11,875.0	9,786.9	10,777.3	8,982.7	22.7	20.8	-26.02	-1,842.7	170.5	899.9	852.8	47.19	19.072
11,900.0	9,786.9	10,802.3	8,982.7	22.8	20.9	-26.02	-1,867.7	170.3	899.9	852.5	47.46	18.963
11,970.0	9,787.0	10,872.3	8,982.7	23.1	21.1	-26.02	-1,937.7	169.7	899.9	851.7	48.23	18.658
12,000.0	9,787.0	10,902.3	8,982.7	23.2	21.3	-26.02	-1,967.7	169.5	899.9	851.4	48.57	18.530
12,065.0	9,787.0	10,967.3	8,982.8	23.5	21.5	-26.02	-2,032.7	168.9	899.9	850.6	49.30	18.253
12,100.0	9,787.0	11,002.3	8,982.8	23.7	21.7	-26.02	-2,067.7	168.6	900.0	850.2	49.70	18.107
12,160.0	9,787.0	11,062.3	8,982.8	24.0	22.0	-26.02	-2,127.7	168.2	900.0	849.6	50.39	17.858
12,200.0	9,787.1	11,102.3	8,982.8	24.2	22.2	-26.02	-2,167.7	167.8	900.0	849.1	50.86	17.696
12,255.0	9,787.1	11,157.3	8,982.9	24.5	22.5	-26.02	-2,222.7	167.4	900.0	848.5	51.51	17.473
12,300.0	9,787.1	11,202.3	8,982.9	24.7	22.7	-26.02	-2,267.7	167.0	900.0	847.9	52.04	17.295
12,350.0	9,787.1	11,252.3	8,982.9	25.0	23.0	-26.02	-2,317.7	166.6	900.0	847.3	52.63	17.098
12,400.0	9,787.2	11,302.3	8,982.9	25.3	23.2	-26.02	-2,367.7	166.2	900.0	846.7	53.23	16.906
12,445.0	9,787.2	11,347.3	8,982.9	25.6	23.5	-26.02	-2,412.7	165.8	900.0	846.2	53.78	16.734
12,500.0	9,787.2	11,402.3	8,983.0	25.9	23.8	-26.02	-2,467.7	165.3	900.0	845.5	54.45	16.528
12,540.0	9,787.2	11,442.3	8,983.0	26.1	24.0	-26.02	-2,507.7	165.0	900.0	845.0	54.94	16.380
12,600.0	9,787.3	11,502.3	8,983.0	26.5	24.4	-26.02	-2,567.7	164.5	900.0	844.3	55.68	16.162
12,635.0	9,787.3	11,537.3	8,983.0	26.7	24.6	-26.02	-2,602.7	164.2	900.0	843.9	56.12	16.036
12,700.0	9,787.3	11,602.3	8,983.1	27.0	25.0	-26.02	-2,667.7	163.7	900.0	843.1	56.93	15.807
12,730.0	9,787.3	11,632.3	8,983.1	27.2	25.2	-26.02	-2,697.7	163.4	900.0	842.7	57.31	15.703
12,800.0	9,787.4	11,702.3	8,983.1	27.7	25.6	-26.02	-2,767.7	162.9	900.0	841.8	58.20	15.464
12,825.0	9,787.4	11,727.3	8,983.1	27.8	25.8	-26.02	-2,792.7	162.7	900.0	841.5	58.52	15.379
12,900.0	9,787.4	11,802.3	8,983.2	28.3	26.2	-26.02	-2,867.7	162.0	900.0	840.5	59.48	15.131
12,920.0	9,787.4	11,822.3	8,983.2	28.4	26.3	-26.02	-2,887.7	161.9	900.0	840.3	59.74	15.066
13,000.0	9,787.5	11,902.3	8,983.2	28.9	26.9	-26.02	-2,967.7	161.2	900.0	839.2	60.77	14.810
13,015.0	9,787.5	11,917.3	8,983.2	29.0	27.0	-26.02	-2,982.7	161.1	900.0	839.0	60.97	14.762
13,100.0	9,787.5	12,002.3	8,983.2	29.5	27.5	-26.02	-3,067.7	160.4	900.0	837.9	62.08	14.498
13,110.0	9,787.5	12,012.3	8,983.3	29.6	27.6	-26.02	-3,077.7	160.3	900.0	837.8	62.21	14.468
13,200.0	9,787.6	12,102.3	8,983.3	30.2	28.2	-26.02	-3,167.7	159.6	900.0	836.6	63.39	14.197
13,205.0	9,787.6	12,107.3	8,983.3	30.2	28.2	-26.02	-3,172.7	159.5	900.0	836.6	63.46	14.182
13,300.0	9,787.6	12,202.3	8,983.3	30.8	28.8	-26.02	-3,267.7	158.7	900.0	835.3	64.72	13.906
13,395.0	9,787.7	12,297.3	8,983.4	31.5	29.5	-26.02	-3,362.7	157.9	900.0	834.0	65.99	13.638
13,400.0	9,787.7	12,302.3	8,983.4	31.5	29.5	-26.02	-3,367.7	157.9	900.0	834.0	66.06	13.624
13,490.0	9,787.7	12,392.3	8,983.4	32.1	30.1	-26.02	-3,457.7	157.2	900.0	832.8	67.27	13.379
13,500.0	9,787.8	12,402.3	8,983.4	32.2	30.2	-26.02	-3,467.7	157.1	900.0	832.6	67.41	13.352
13,585.0	9,787.8	12,487.3	8,983.5	32.7	30.7	-26.02	-3,552.7	156.4	900.0	831.5	68.56	13.128
13,600.0	9,787.8	12,502.3	8,983.5	32.8	30.8	-26.02	-3,567.7	156.3	900.0	831.3	68.76	13.089
13,680.0	9,787.8	12,582.3	8,983.5	33.4	31.4	-26.02	-3,647.7	155.6	900.0	830.2	69.86	12.884
13,700.0	9,787.9	12,602.3	8,983.5	33.5	31.5	-26.02	-3,667.7	155.4	900.0	829.9	70.13	12.834
13,775.0	9,787.9	12,677.3	8,983.6	34.0	32.0	-26.02	-3,742.7	154.8	900.0	828.9	71.16	12.648
13,800.0	9,787.9	12,702.3	8,983.6	34.2	32.2	-26.02	-3,767.7	154.6	900.1	828.5	71.50	12.588
13,870.0	9,787.9	12,772.3	8,983.6	34.7	32.7	-26.02	-3,837.7	154.0	900.1	827.6	72.47	12.420
13,900.0	9,788.0	12,802.3	8,983.6	34.9	32.9	-26.02	-3,867.7	153.8	900.1	827.2	72.88	12.349
13,965.0	9,788.0	12,867.3	8,983.7	35.3	33.3	-26.02	-3,932.6	153.2	900.1	826.3	73.79	12.198
14,000.0	9,788.0	12,902.3	8,983.7	35.6	33.6	-26.02	-3,967.6	153.0	900.1	825.8	74.27	12.118
14,060.0	9,788.0	12,962.3	8,983.7	36.0	34.0	-26.02	-4,027.6	152.5	900.1	825.0	75.11	11.983
14,100.0	9,788.1	13,002.3	8,983.7	36.3	34.3	-26.02	-4,067.6	152.1	900.1	824.4	75.67	11.895
14,155.0	9,788.1	13,057.3	8,983.7	36.6	34.7	-26.02	-4,122.6	151.7	900.1	823.6	76.44	11.775
14,200.0	9,788.1	13,102.3	8,983.8	37.0	35.0	-26.02	-4,167.6	151.3	900.1	823.0	77.07	11.679
14,250.0	9,788.1	13,152.3	8,983.8	37.3	35.3	-26.02	-4,217.6	150.9	900.1	822.3	77.77	11.573
14,300.0	9,788.2	13,202.3	8,983.8	37.7	35.7	-26.02	-4,267.6	150.5	900.1	821.6	78.48	11.469
14,345.0	9,788.2	13,247.3	8,983.8	38.0	36.0	-26.02	-4,312.6	150.1	900.1	821.0	79.11	11.377

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,400.0	9,788.2	13,302.3	8,983.9	38.4	36.4	-26.02	-4,367.6	149.6	900.1	820.2	79.89	11.266	
14,440.0	9,788.2	13,342.3	8,983.9	38.6	36.7	-26.02	-4,407.6	149.3	900.1	819.6	80.46	11.187	
14,500.0	9,788.3	13,402.3	8,983.9	39.1	37.1	-26.02	-4,467.6	148.8	900.1	818.8	81.31	11.070	
14,535.0	9,788.3	13,437.3	8,983.9	39.3	37.4	-26.02	-4,502.6	148.5	900.1	818.3	81.81	11.003	
14,600.0	9,788.3	13,502.3	8,983.9	39.8	37.8	-26.02	-4,567.6	148.0	900.1	817.4	82.73	10.879	
14,630.0	9,788.3	13,532.3	8,984.0	40.0	38.0	-26.02	-4,597.6	147.7	900.1	816.9	83.16	10.823	
14,700.0	9,788.4	13,602.3	8,984.0	40.5	38.5	-26.02	-4,667.6	147.2	900.1	815.9	84.16	10.695	
14,725.0	9,788.4	13,627.3	8,984.0	40.6	38.7	-26.02	-4,692.6	147.0	900.1	815.6	84.52	10.649	
14,800.0	9,788.4	13,702.3	8,984.0	41.2	39.3	-26.02	-4,767.6	146.3	900.1	814.5	85.60	10.516	
14,820.0	9,788.4	13,722.3	8,984.1	41.3	39.4	-26.02	-4,787.6	146.2	900.1	814.2	85.88	10.481	
14,900.0	9,788.5	13,802.3	8,984.1	41.9	40.0	-26.02	-4,867.6	145.5	900.1	813.1	87.03	10.342	
14,915.0	9,788.5	13,817.3	8,984.1	42.0	40.1	-26.02	-4,882.6	145.4	900.1	812.9	87.25	10.316	
15,000.0	9,788.5	13,902.3	8,984.1	42.6	40.7	-26.02	-4,967.6	144.7	900.1	811.6	88.48	10.173	
15,010.0	9,788.5	13,912.3	8,984.1	42.7	40.8	-26.02	-4,977.6	144.6	900.1	811.5	88.62	10.157	
15,100.0	9,788.6	14,002.3	8,984.2	43.3	41.4	-26.02	-5,067.6	143.9	900.1	810.2	89.92	10.010	
15,105.0	9,788.6	14,007.3	8,984.2	43.4	41.4	-26.02	-5,072.6	143.8	900.1	810.1	90.00	10.002	
15,200.0	9,788.6	14,102.3	8,984.2	44.0	42.1	-26.02	-5,167.6	143.0	900.1	808.8	91.37	9.851	
15,295.0	9,788.7	14,197.3	8,984.3	44.7	42.8	-26.02	-5,262.6	142.3	900.1	807.4	92.76	9.704	
15,300.0	9,788.7	14,202.3	8,984.3	44.8	42.9	-26.02	-5,267.6	142.2	900.1	807.3	92.83	9.697	
15,390.0	9,788.7	14,292.3	8,984.3	45.4	43.5	-26.02	-5,357.6	141.5	900.1	806.0	94.14	9.562	
15,400.0	9,788.7	14,302.3	8,984.3	45.5	43.6	-26.02	-5,367.6	141.4	900.1	805.9	94.29	9.547	
15,485.0	9,788.8	14,387.3	8,984.4	46.1	44.2	-26.02	-5,452.6	140.7	900.2	804.6	95.53	9.423	
15,500.0	9,788.8	14,402.3	8,984.4	46.2	44.3	-26.02	-5,467.6	140.6	900.2	804.4	95.75	9.401	
15,580.0	9,788.8	14,482.3	8,984.4	46.8	44.9	-26.02	-5,547.6	139.9	900.2	803.2	96.92	9.288	
15,600.0	9,788.9	14,502.3	8,984.4	46.9	45.0	-26.02	-5,567.6	139.7	900.2	802.9	97.21	9.260	
15,675.0	9,788.9	14,577.3	8,984.5	47.5	45.6	-26.02	-5,642.6	139.1	900.2	801.9	98.31	9.156	
15,700.0	9,788.9	14,602.3	8,984.5	47.6	45.8	-26.02	-5,667.6	138.9	900.2	801.5	98.68	9.122	
15,770.0	9,788.9	14,672.3	8,984.5	48.2	46.3	-26.02	-5,737.6	138.3	900.2	800.5	99.71	9.028	
15,800.0	9,789.0	14,702.3	8,984.5	48.4	46.5	-26.02	-5,767.6	138.1	900.2	800.0	100.15	8.988	
15,865.0	9,789.0	14,767.3	8,984.5	48.8	47.0	-26.02	-5,832.6	137.5	900.2	799.1	101.10	8.903	
15,900.0	9,789.0	14,802.3	8,984.6	49.1	47.2	-26.02	-5,867.6	137.3	900.2	798.6	101.62	8.858	
15,960.0	9,789.0	14,862.3	8,984.6	49.5	47.7	-26.02	-5,927.6	136.8	900.2	797.7	102.50	8.782	
16,000.0	9,789.1	14,902.3	8,984.6	49.8	48.0	-26.02	-5,967.6	136.4	900.2	797.1	103.09	8.732	
16,055.0	9,789.1	14,957.3	8,984.6	50.2	48.4	-26.02	-6,022.6	136.0	900.2	796.3	103.91	8.663	
16,100.0	9,789.1	15,002.3	8,984.6	50.6	48.7	-26.02	-6,067.6	135.6	900.2	795.6	104.57	8.608	
16,150.0	9,789.1	15,052.3	8,984.7	50.9	49.1	-26.02	-6,117.6	135.2	900.2	794.9	105.31	8.548	
16,200.0	9,789.2	15,102.3	8,984.7	51.3	49.4	-26.02	-6,167.6	134.8	900.2	794.1	106.05	8.488	
16,245.0	9,789.2	15,147.3	8,984.7	51.6	49.8	-26.02	-6,212.6	134.4	900.2	793.5	106.72	8.435	
16,300.0	9,789.2	15,202.3	8,984.7	52.0	50.2	-26.02	-6,267.6	134.0	900.2	792.7	107.54	8.371	
16,340.0	9,789.2	15,242.3	8,984.8	52.3	50.5	-26.02	-6,307.6	133.6	900.2	792.1	108.13	8.325	
16,400.0	9,789.3	15,302.3	8,984.8	52.8	50.9	-26.02	-6,367.6	133.1	900.2	791.2	109.02	8.257	
16,435.0	9,789.3	15,337.3	8,984.8	53.0	51.2	-26.02	-6,402.6	132.8	900.2	790.7	109.54	8.218	
16,500.0	9,789.3	15,402.3	8,984.8	53.5	51.6	-26.02	-6,467.6	132.3	900.2	789.7	110.51	8.146	
16,530.0	9,789.3	15,432.3	8,984.8	53.7	51.9	-26.02	-6,497.6	132.1	900.2	789.3	110.95	8.113	
16,600.0	9,789.4	15,502.3	8,984.9	54.2	52.4	-26.02	-6,567.6	131.5	900.2	788.2	112.00	8.038	
16,625.0	9,789.4	15,527.3	8,984.9	54.4	52.6	-26.02	-6,592.6	131.3	900.2	787.8	112.37	8.011	
16,700.0	9,789.4	15,602.3	8,984.9	55.0	53.1	-26.02	-6,667.6	130.6	900.2	786.7	113.49	7.932	
16,720.0	9,789.4	15,622.3	8,984.9	55.1	53.3	-26.02	-6,687.6	130.5	900.2	786.4	113.79	7.912	
16,800.0	9,789.5	15,702.3	8,985.0	55.7	53.9	-26.02	-6,767.6	129.8	900.2	785.2	114.98	7.829	
16,815.0	9,789.5	15,717.3	8,985.0	55.8	54.0	-26.02	-6,782.6	129.7	900.2	785.0	115.20	7.814	
16,900.0	9,789.5	15,802.3	8,985.0	56.4	54.6	-26.02	-6,867.5	129.0	900.2	783.8	116.48	7.729	

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-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
16,910.0	9,789.5	15,812.3	8,985.0	56.5	54.7	-26.02	-6,877.5	128.9	900.2	783.6	116.63	7.719
17,000.0	9,789.6	15,902.3	8,985.1	57.2	55.3	-26.02	-6,967.5	128.2	900.2	782.3	117.97	7.631
17,005.0	9,789.6	15,907.3	8,985.1	57.2	55.4	-26.02	-6,972.5	128.1	900.2	782.2	118.05	7.626
17,100.0	9,789.6	16,002.3	8,985.1	57.9	56.1	-26.02	-7,067.5	127.3	900.2	780.8	119.47	7.535
17,195.0	9,789.7	16,097.3	8,985.2	58.6	56.8	-26.02	-7,162.5	126.6	900.3	779.4	120.90	7.447
17,200.0	9,789.7	16,102.3	8,985.2	58.6	56.8	-26.02	-7,167.5	126.5	900.3	779.3	120.97	7.442
17,290.0	9,789.7	16,192.3	8,985.2	59.3	57.5	-26.02	-7,257.5	125.8	900.3	777.9	122.32	7.360
17,300.0	9,789.7	16,202.3	8,985.2	59.4	57.6	-26.02	-7,267.5	125.7	900.3	777.8	122.47	7.351
17,385.0	9,789.8	16,287.3	8,985.2	60.0	58.2	-26.02	-7,352.5	125.0	900.3	776.5	123.75	7.275
17,400.0	9,789.8	16,302.3	8,985.3	60.1	58.3	-26.02	-7,367.5	124.9	900.3	776.3	123.97	7.262
17,480.0	9,789.8	16,382.3	8,985.3	60.7	58.9	-26.02	-7,447.5	124.2	900.3	775.1	125.18	7.192
17,500.0	9,789.9	16,402.3	8,985.3	60.9	59.1	-26.02	-7,467.5	124.0	900.3	774.8	125.48	7.175
17,575.0	9,789.9	16,477.3	8,985.3	61.4	59.6	-26.02	-7,542.5	123.4	900.3	773.7	126.61	7.111
17,600.0	9,789.9	16,502.3	8,985.3	61.6	59.8	-26.02	-7,567.5	123.2	900.3	773.3	126.98	7.090
17,670.0	9,789.9	16,572.3	8,985.4	62.1	60.3	-26.02	-7,637.5	122.6	900.3	772.2	128.04	7.031
17,700.0	9,790.0	16,602.3	8,985.4	62.4	60.5	-26.02	-7,667.5	122.4	900.3	771.8	128.49	7.007
17,765.0	9,790.0	16,667.3	8,985.4	62.8	61.0	-26.02	-7,732.5	121.8	900.3	770.8	129.47	6.953
17,800.0	9,790.0	16,702.3	8,985.4	63.1	61.3	-26.02	-7,767.5	121.6	900.3	770.3	130.00	6.925
17,860.0	9,790.0	16,762.3	8,985.5	63.5	61.7	-26.02	-7,827.5	121.1	900.3	769.4	130.91	6.877
17,900.0	9,790.1	16,802.3	8,985.5	63.8	62.0	-26.02	-7,867.5	120.7	900.3	768.8	131.51	6.846
17,955.0	9,790.1	16,857.3	8,985.5	64.3	62.4	-26.02	-7,922.5	120.3	900.3	768.0	132.34	6.803
18,000.0	9,790.1	16,902.3	8,985.5	64.6	62.8	-26.02	-7,967.5	119.9	900.3	767.3	133.02	6.768
18,050.0	9,790.1	16,952.3	8,985.6	65.0	63.2	-26.02	-8,017.5	119.5	900.3	766.5	133.78	6.730
18,100.0	9,790.2	17,002.3	8,985.6	65.3	63.5	-26.02	-8,067.5	119.1	900.3	765.8	134.53	6.692
18,145.0	9,790.2	17,047.3	8,985.6	65.7	63.9	-26.02	-8,112.5	118.7	900.3	765.1	135.21	6.658
18,200.0	9,790.2	17,102.3	8,985.6	66.1	64.3	-26.02	-8,167.5	118.3	900.3	764.3	136.05	6.618
18,240.0	9,790.2	17,142.3	8,985.6	66.4	64.6	-26.02	-8,207.5	117.9	900.3	763.7	136.65	6.588
18,300.0	9,790.3	17,202.3	8,985.7	66.8	65.0	-26.02	-8,267.5	117.4	900.3	762.8	137.56	6.545
18,335.0	9,790.3	17,237.3	8,985.7	67.1	65.3	-26.02	-8,302.5	117.1	900.3	762.2	138.09	6.520
18,400.0	9,790.3	17,302.3	8,985.7	67.6	65.8	-26.02	-8,367.5	116.6	900.3	761.2	139.08	6.474
18,430.0	9,790.3	17,332.3	8,985.7	67.8	66.0	-26.02	-8,397.5	116.4	900.3	760.8	139.53	6.452
18,500.0	9,790.4	17,402.3	8,985.8	68.3	66.5	-26.02	-8,467.5	115.8	900.3	759.7	140.59	6.404
18,525.0	9,790.4	17,427.3	8,985.8	68.5	66.7	-26.02	-8,492.5	115.6	900.3	759.4	140.97	6.387
18,600.0	9,790.4	17,502.3	8,985.8	69.1	67.3	-26.01	-8,567.5	115.0	900.3	758.2	142.11	6.335
18,620.0	9,790.4	17,522.3	8,985.8	69.2	67.4	-26.01	-8,587.5	114.8	900.3	757.9	142.42	6.322
18,700.0	9,790.5	17,602.3	8,985.9	69.8	68.0	-26.01	-8,667.5	114.1	900.3	756.7	143.63	6.268
18,715.0	9,790.5	17,617.3	8,985.9	69.9	68.1	-26.01	-8,682.5	114.0	900.3	756.5	143.86	6.259
18,800.0	9,790.5	17,702.3	8,985.9	70.6	68.8	-26.01	-8,767.5	113.3	900.3	755.2	145.15	6.203
18,810.0	9,790.5	17,712.3	8,985.9	70.6	68.8	-26.01	-8,777.5	113.2	900.3	755.0	145.30	6.196
18,900.0	9,790.6	17,802.3	8,986.0	71.3	69.5	-26.01	-8,867.5	112.5	900.4	753.7	146.67	6.139
18,905.0	9,790.6	17,807.3	8,986.0	71.3	69.6	-26.01	-8,872.5	112.4	900.4	753.6	146.75	6.135
19,000.0	9,790.6	17,902.3	8,986.0	72.0	70.3	-26.01	-8,967.5	111.6	900.4	752.2	148.19	6.076
19,095.0	9,790.7	17,997.3	8,986.0	72.8	71.0	-26.01	-9,062.5	110.9	900.4	750.7	149.64	6.017
19,100.0	9,790.7	18,002.3	8,986.0	72.8	71.0	-26.01	-9,067.5	110.8	900.4	750.6	149.71	6.014
19,190.0	9,790.7	18,092.3	8,986.1	73.5	71.7	-26.01	-9,157.5	110.1	900.4	749.3	151.08	5.959
19,200.0	9,790.7	18,102.3	8,986.1	73.5	71.8	-26.01	-9,167.5	110.0	900.4	749.1	151.24	5.953
19,285.0	9,790.8	18,187.3	8,986.1	74.2	72.4	-26.01	-9,252.5	109.3	900.4	747.8	152.53	5.903
19,300.0	9,790.8	18,202.3	8,986.1	74.3	72.5	-26.01	-9,267.5	109.2	900.4	747.6	152.76	5.894
19,380.0	9,790.8	18,282.3	8,986.2	74.9	73.1	-26.01	-9,347.5	108.5	900.4	746.4	153.98	5.847
19,400.0	9,790.8	18,302.3	8,986.2	75.0	73.3	-26.01	-9,367.5	108.3	900.4	746.1	154.28	5.836
19,475.0	9,790.9	18,377.3	8,986.2	75.6	73.8	-26.01	-9,442.5	107.7	900.4	745.0	155.43	5.793

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
19,500.0	9,790.9	18,402.3	8,986.2	75.8	74.0	-26.01	-9,467.5	107.5	900.4	744.6	155.81	5.779
19,570.0	9,790.9	18,472.3	8,986.3	76.3	74.6	-26.01	-9,537.5	106.9	900.4	743.5	156.88	5.739
19,600.0	9,791.0	18,502.3	8,986.3	76.5	74.8	-26.01	-9,567.5	106.7	900.4	743.1	157.34	5.723
19,665.0	9,791.0	18,567.3	8,986.3	77.0	75.3	-26.01	-9,632.5	106.2	900.4	742.1	158.33	5.687
19,700.0	9,791.0	18,602.3	8,986.3	77.3	75.5	-26.01	-9,667.5	105.9	900.4	741.5	158.86	5.668
19,760.0	9,791.0	18,662.3	8,986.4	77.7	76.0	-26.01	-9,727.5	105.4	900.4	740.6	159.78	5.635
19,800.0	9,791.1	18,702.3	8,986.4	78.0	76.3	-26.01	-9,767.4	105.0	900.4	740.0	160.39	5.614
19,855.0	9,791.1	18,757.3	8,986.4	78.5	76.7	-26.01	-9,822.4	104.6	900.4	739.2	161.23	5.585
19,900.0	9,791.1	18,802.3	8,986.4	78.8	77.0	-26.01	-9,867.4	104.2	900.4	738.5	161.92	5.561
19,950.0	9,791.1	18,852.3	8,986.4	79.2	77.4	-26.01	-9,917.4	103.8	900.4	737.7	162.68	5.535
20,000.0	9,791.2	18,902.3	8,986.5	79.5	77.8	-26.01	-9,967.4	103.4	900.4	737.0	163.45	5.509
20,045.0	9,791.2	18,947.3	8,986.5	79.9	78.1	-26.01	-10,012.4	103.0	900.4	736.3	164.14	5.486
20,100.0	9,791.2	19,002.3	8,986.5	80.3	78.5	-26.01	-10,067.4	102.6	900.4	735.4	164.98	5.458
20,140.0	9,791.2	19,042.3	8,986.5	80.6	78.8	-26.01	-10,107.4	102.2	900.4	734.8	165.59	5.438
20,200.0	9,791.3	19,102.3	8,986.6	81.0	79.3	-26.01	-10,167.4	101.7	900.4	733.9	166.51	5.408
20,235.0	9,791.3	19,137.3	8,986.6	81.3	79.6	-26.01	-10,202.4	101.4	900.4	733.4	167.04	5.390
20,300.0	9,791.3	19,202.3	8,986.6	81.8	80.0	-26.01	-10,267.4	100.9	900.4	732.4	168.04	5.359
20,330.0	9,791.3	19,232.3	8,986.6	82.0	80.3	-26.01	-10,297.4	100.7	900.4	731.9	168.50	5.344
20,400.0	9,791.4	19,302.3	8,986.7	82.6	80.8	-26.01	-10,367.4	100.1	900.4	730.9	169.57	5.310
20,425.0	9,791.4	19,327.3	8,986.7	82.7	81.0	-26.01	-10,392.4	99.9	900.4	730.5	169.95	5.298
20,500.0	9,791.4	19,402.3	8,986.7	83.3	81.6	-26.01	-10,467.4	99.3	900.4	729.3	171.10	5.263
20,520.0	9,791.4	19,422.3	8,986.7	83.5	81.7	-26.01	-10,487.4	99.1	900.4	729.0	171.41	5.253
20,600.0	9,791.5	19,502.3	8,986.7	84.1	82.3	-26.01	-10,567.4	98.4	900.5	727.8	172.63	5.216
20,615.0	9,791.5	19,517.3	8,986.8	84.2	82.4	-26.01	-10,582.4	98.3	900.5	727.6	172.86	5.209
20,700.0	9,791.5	19,602.3	8,986.8	84.8	83.1	-26.01	-10,667.4	97.6	900.5	726.3	174.17	5.170
20,710.0	9,791.5	19,612.3	8,986.8	84.9	83.1	-26.01	-10,677.4	97.5	900.5	726.1	174.32	5.166
20,800.0	9,791.6	19,702.3	8,986.8	85.6	83.8	-26.01	-10,767.4	96.8	900.5	724.8	175.70	5.125
20,805.0	9,791.6	19,707.3	8,986.8	85.6	83.9	-26.01	-10,772.4	96.7	900.5	724.7	175.78	5.123
20,900.0	9,791.6	19,802.3	8,986.9	86.3	84.6	-26.01	-10,867.4	96.0	900.5	723.2	177.23	5.081
20,995.0	9,791.7	19,897.3	8,986.9	87.0	85.3	-26.01	-10,962.4	95.2	900.5	721.8	178.69	5.039
21,000.0	9,791.7	19,902.3	8,986.9	87.1	85.3	-26.01	-10,967.4	95.1	900.5	721.7	178.77	5.037
21,090.0	9,791.7	19,992.3	8,987.0	87.7	86.0	-26.01	-11,057.4	94.4	900.5	720.3	180.15	4.999
21,100.0	9,791.7	20,002.3	8,987.0	87.8	86.1	-26.01	-11,067.4	94.3	900.5	720.2	180.30	4.994
21,185.0	9,791.8	20,087.3	8,987.0	88.5	86.7	-26.01	-11,152.4	93.6	900.5	718.9	181.61	4.958
21,200.0	9,791.8	20,102.3	8,987.0	88.6	86.8	-26.01	-11,167.4	93.5	900.5	718.6	181.84	4.952
21,280.0	9,791.8	20,182.3	8,987.1	89.2	87.4	-26.01	-11,247.4	92.8	900.5	717.4	183.07	4.919
21,300.0	9,791.8	20,202.3	8,987.1	89.3	87.6	-26.01	-11,267.4	92.6	900.5	717.1	183.37	4.911
21,375.0	9,791.9	20,277.3	8,987.1	89.9	88.2	-26.01	-11,342.4	92.0	900.5	716.0	184.53	4.880
21,400.0	9,791.9	20,302.3	8,987.1	90.1	88.3	-26.01	-11,367.4	91.8	900.5	715.6	184.91	4.870
21,470.0	9,791.9	20,372.3	8,987.2	90.6	88.9	-26.01	-11,437.4	91.2	900.5	714.5	185.99	4.842
21,500.0	9,791.9	20,402.3	8,987.2	90.8	89.1	-26.01	-11,467.4	91.0	900.5	714.1	186.45	4.830
21,565.0	9,792.0	20,467.3	8,987.2	91.3	89.6	-26.01	-11,532.4	90.5	900.5	713.1	187.45	4.804
21,600.0	9,792.0	20,502.3	8,987.2	91.6	89.9	-26.01	-11,567.4	90.2	900.5	712.5	187.99	4.790
21,660.0	9,792.0	20,562.3	8,987.2	92.0	90.3	-26.01	-11,627.4	89.7	900.5	711.6	188.91	4.767
21,700.0	9,792.1	20,602.3	8,987.3	92.3	90.6	-26.01	-11,667.4	89.3	900.5	711.0	189.52	4.751
21,755.0	9,792.1	20,657.3	8,987.3	92.8	91.0	-26.01	-11,722.4	88.9	900.5	710.2	190.37	4.730
21,800.0	9,792.1	20,702.3	8,987.3	93.1	91.4	-26.01	-11,767.4	88.5	900.5	709.5	191.06	4.713
21,850.0	9,792.1	20,752.3	8,987.3	93.5	91.7	-26.01	-11,817.4	88.1	900.5	708.7	191.83	4.694
21,900.0	9,792.2	20,802.3	8,987.4	93.9	92.1	-26.01	-11,867.4	87.7	900.5	707.9	192.60	4.676
21,945.0	9,792.2	20,847.3	8,987.4	94.2	92.5	-26.01	-11,912.4	87.3	900.5	707.2	193.29	4.659
22,000.0	9,792.2	20,902.3	8,987.4	94.6	92.9	-26.01	-11,967.4	86.9	900.5	706.4	194.14	4.639

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-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		
22,040.0	9,792.2	20,942.3	8,987.4	94.9	93.2	-26.01	-12,007.4	86.5	900.5	705.8	194.75	4.624			
22,100.0	9,792.3	21,002.3	8,987.5	95.4	93.6	-26.01	-12,067.4	86.0	900.5	704.9	195.68	4.602			
22,135.0	9,792.3	21,037.3	8,987.5	95.6	93.9	-26.01	-12,102.4	85.8	900.5	704.3	196.22	4.590			
22,200.0	9,792.3	21,102.3	8,987.5	96.1	94.4	-26.01	-12,167.4	85.2	900.5	703.3	197.22	4.566			
22,230.0	9,792.3	21,132.3	8,987.5	96.3	94.6	-26.01	-12,197.4	85.0	900.5	702.9	197.68	4.556			
22,300.0	9,792.4	21,202.3	8,987.5	96.9	95.2	-26.01	-12,267.4	84.4	900.6	701.8	198.76	4.531			
22,325.0	9,792.4	21,227.3	8,987.6	97.1	95.3	-26.01	-12,292.4	84.2	900.6	701.4	199.14	4.522			
22,400.0	9,792.4	21,302.3	8,987.6	97.6	95.9	-26.01	-12,367.4	83.6	900.6	700.3	200.30	4.496			
22,420.0	9,792.4	21,322.3	8,987.6	97.8	96.1	-26.01	-12,387.4	83.4	900.6	700.0	200.61	4.489			
22,500.0	9,792.5	21,402.3	8,987.6	98.4	96.7	-26.01	-12,467.4	82.7	900.6	698.7	201.84	4.462			
22,515.0	9,792.5	21,417.3	8,987.6	98.5	96.8	-26.01	-12,482.4	82.6	900.6	698.5	202.07	4.457			
22,600.0	9,792.5	21,502.3	8,987.7	99.1	97.4	-26.01	-12,567.4	81.9	900.6	697.2	203.38	4.428			
22,610.0	9,792.5	21,512.3	8,987.7	99.2	97.5	-26.01	-12,577.4	81.8	900.6	697.0	203.53	4.425			
22,700.0	9,792.6	21,602.3	8,987.7	99.9	98.2	-26.01	-12,667.4	81.1	900.6	695.7	204.92	4.395			
22,705.0	9,792.6	21,607.3	8,987.7	99.9	98.2	-26.01	-12,672.3	81.0	900.6	695.6	205.00	4.393			
22,800.0	9,792.6	21,702.3	8,987.8	100.7	98.9	-26.01	-12,767.3	80.3	900.6	694.1	206.46	4.362			
22,895.0	9,792.7	21,797.3	8,987.8	101.4	99.7	-26.01	-12,862.3	79.5	900.6	692.7	207.93	4.331			
22,900.0	9,792.7	21,802.3	8,987.8	101.4	99.7	-26.01	-12,867.3	79.4	900.6	692.6	208.00	4.330			
22,990.0	9,792.7	21,892.3	8,987.9	102.1	100.4	-26.01	-12,957.3	78.7	900.6	691.2	209.39	4.301			
23,000.0	9,792.7	21,902.3	8,987.9	102.2	100.5	-26.01	-12,967.3	78.6	900.6	691.0	209.55	4.298			
23,085.0	9,792.8	21,987.3	8,987.9	102.8	101.1	-26.01	-13,052.3	77.9	900.6	689.7	210.86	4.271			
23,100.0	9,792.8	22,002.3	8,987.9	102.9	101.2	-26.01	-13,067.3	77.8	900.6	689.5	211.09	4.266			
23,180.0	9,792.8	22,082.3	8,988.0	103.5	101.8	-26.01	-13,147.3	77.1	900.6	688.3	212.32	4.242			
23,200.0	9,792.8	22,102.3	8,988.0	103.7	102.0	-26.01	-13,167.3	77.0	900.6	688.0	212.63	4.236			
23,275.0	9,792.9	22,177.3	8,988.0	104.2	102.5	-26.01	-13,242.3	76.3	900.6	686.8	213.79	4.213			
23,300.0	9,792.9	22,202.3	8,988.0	104.4	102.7	-26.01	-13,267.3	76.1	900.6	686.4	214.18	4.205			
23,370.0	9,792.9	22,272.3	8,988.0	105.0	103.3	-26.01	-13,337.3	75.5	900.6	685.4	215.26	4.184			
23,400.0	9,792.9	22,302.3	8,988.1	105.2	103.5	-26.01	-13,367.3	75.3	900.6	684.9	215.72	4.175			
23,465.0	9,793.0	22,367.3	8,988.1	105.7	104.0	-26.01	-13,432.3	74.8	900.6	683.9	216.72	4.156			
23,500.0	9,793.0	22,402.3	8,988.1	105.9	104.2	-26.01	-13,467.3	74.5	900.6	683.4	217.26	4.145			
23,560.0	9,793.0	22,462.3	8,988.1	106.4	104.7	-26.01	-13,527.3	74.0	900.6	682.4	218.19	4.128			
23,600.0	9,793.0	22,502.3	8,988.2	106.7	105.0	-26.01	-13,567.3	73.6	900.6	681.8	218.81	4.116			
23,655.0	9,793.1	22,557.3	8,988.2	107.1	105.4	-26.01	-13,622.3	73.2	900.6	681.0	219.66	4.100			
23,700.0	9,793.1	22,602.3	8,988.2	107.5	105.8	-26.01	-13,667.3	72.8	900.6	680.3	220.35	4.087			
23,750.0	9,793.1	22,652.3	8,988.2	107.8	106.1	-26.01	-13,717.3	72.4	900.6	679.5	221.12	4.073			
23,800.0	9,793.2	22,702.3	8,988.2	108.2	106.5	-26.01	-13,767.3	72.0	900.6	678.7	221.90	4.059			
23,845.0	9,793.2	22,747.3	8,988.3	108.6	106.9	-26.01	-13,812.3	71.6	900.6	678.1	222.59	4.046			
23,900.0	9,793.2	22,802.3	8,988.3	109.0	107.3	-26.01	-13,867.3	71.2	900.6	677.2	223.44	4.031			
23,940.0	9,793.2	22,842.3	8,988.3	109.3	107.6	-26.01	-13,907.3	70.8	900.6	676.6	224.06	4.020			
24,000.0	9,793.3	22,902.3	8,988.3	109.7	108.0	-26.01	-13,967.3	70.3	900.7	675.7	224.99	4.003			
24,035.0	9,793.3	22,937.3	8,988.4	110.0	108.3	-26.01	-14,002.3	70.1	900.7	675.1	225.53	3.994			
24,100.0	9,793.3	23,002.3	8,988.4	110.5	108.8	-26.01	-14,067.3	69.5	900.7	674.1	226.53	3.976			
24,130.0	9,793.3	23,032.3	8,988.4	110.7	109.0	-26.01	-14,097.3	69.3	900.7	673.7	226.99	3.968			
24,200.0	9,793.4	23,102.3	8,988.4	111.2	109.5	-26.01	-14,167.3	68.7	900.7	672.6	228.08	3.949			
24,225.0	9,793.4	23,127.3	8,988.4	111.4	109.7	-26.01	-14,192.3	68.5	900.7	672.2	228.46	3.942			
24,300.0	9,793.4	23,202.3	8,988.5	112.0	110.3	-26.01	-14,267.3	67.9	900.7	671.0	229.62	3.922			
24,320.0	9,793.4	23,222.3	8,988.5	112.2	110.5	-26.01	-14,287.3	67.7	900.7	670.7	229.93	3.917			
24,400.0	9,793.5	23,302.3	8,988.5	112.8	111.1	-26.01	-14,367.3	67.0	900.7	669.5	231.17	3.896			
24,415.0	9,793.5	23,317.3	8,988.5	112.9	111.2	-26.01	-14,382.3	66.9	900.7	669.3	231.40	3.892			
24,500.0	9,793.5	23,402.3	8,988.6	113.5	111.8	-26.01	-14,467.3	66.2	900.7	668.0	232.71	3.870			
24,510.0	9,793.5	23,412.3	8,988.6	113.6	111.9	-26.01	-14,477.3	66.1	900.7	667.8	232.87	3.868			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
24,600.0	9,793.6	23,502.3	8,988.6	114.3	112.6	-26.01	-14,567.3	65.4	900.7	666.4	234.26	3.845
24,605.0	9,793.6	23,507.3	8,988.6	114.3	112.6	-26.01	-14,572.3	65.3	900.7	666.3	234.34	3.844
24,700.0	9,793.6	23,602.3	8,988.7	115.0	113.3	-26.01	-14,667.3	64.6	900.7	664.9	235.81	3.820
24,795.0	9,793.7	23,697.3	8,988.7	115.8	114.1	-26.01	-14,762.3	63.8	900.7	663.4	237.28	3.796
24,800.0	9,793.7	23,702.3	8,988.7	115.8	114.1	-26.01	-14,767.3	63.7	900.7	663.3	237.35	3.795
24,890.0	9,793.7	23,792.3	8,988.8	116.5	114.8	-26.01	-14,857.3	63.0	900.7	662.0	238.75	3.773
24,900.0	9,793.7	23,802.3	8,988.8	116.6	114.9	-26.01	-14,867.3	62.9	900.7	661.8	238.90	3.770
24,985.0	9,793.8	23,887.3	8,988.8	117.2	115.5	-26.01	-14,952.3	62.2	900.7	660.5	240.22	3.750
25,000.0	9,793.8	23,902.3	8,988.8	117.3	115.6	-26.01	-14,967.3	62.1	900.7	660.3	240.45	3.746
25,080.0	9,793.8	23,982.3	8,988.8	117.9	116.2	-26.01	-15,047.3	61.4	900.7	659.0	241.69	3.727
25,100.0	9,793.8	24,002.3	8,988.9	118.1	116.4	-26.01	-15,067.3	61.3	900.7	658.7	242.00	3.722
25,175.0	9,793.9	24,077.3	8,988.9	118.6	116.9	-26.01	-15,142.3	60.6	900.7	657.6	243.16	3.704
25,200.0	9,793.9	24,102.3	8,988.9	118.8	117.1	-26.01	-15,167.3	60.4	900.7	657.2	243.54	3.698
25,270.0	9,793.9	24,172.3	8,988.9	119.4	117.7	-26.01	-15,237.3	59.9	900.7	656.1	244.63	3.682
25,278.2	9,793.9	24,180.5	8,988.9	119.4	117.7	-26.01	-15,245.4	59.8	900.7	656.0	244.75	3.680
25,300.0	9,793.9	24,202.3	8,988.9	119.6	117.9	-26.01	-15,267.3	59.6	900.7	655.6	245.09	3.675
25,365.0	9,794.0	24,267.3	8,989.0	120.1	118.4	-26.01	-15,332.3	59.1	900.7	654.6	246.10	3.660
25,408.3	9,794.0	24,310.6	8,989.0	120.4	118.7	-26.01	-15,375.5	58.7	900.7	654.0	246.77	3.650 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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	4.6	4.6	3.0	3.0	167.77	-149.5	32.4	153.0				
95.0	95.0	99.6	99.6	3.0	3.0	167.77	-149.5	32.4	153.0	146.9	6.04	25.334	
100.0	100.0	104.6	104.6	3.0	3.0	167.77	-149.5	32.4	153.0	146.9	6.04	25.307	
190.0	190.0	194.6	194.6	3.1	3.1	167.77	-149.5	32.4	153.0	146.7	6.27	24.413	
200.0	200.0	204.6	204.6	3.1	3.2	167.77	-149.5	32.4	153.0	146.7	6.30	24.289	
285.0	285.0	289.6	289.6	3.3	3.3	167.77	-149.5	32.4	153.0	146.5	6.51	23.509	
300.0	300.0	304.6	304.6	3.3	3.3	167.77	-149.5	32.4	153.0	146.4	6.55	23.363	
380.0	380.0	384.6	384.6	3.4	3.4	167.77	-149.5	32.4	153.0	146.2	6.74	22.686	
400.0	400.0	404.6	404.6	3.4	3.4	167.77	-149.5	32.4	153.0	146.2	6.80	22.512	
475.0	475.0	479.6	479.6	3.5	3.5	167.77	-149.5	32.4	153.0	146.0	6.98	21.925	
500.0	500.0	504.6	504.6	3.5	3.5	167.77	-149.5	32.4	153.0	145.9	7.04	21.728	
570.0	570.0	574.6	574.6	3.6	3.6	167.77	-149.5	32.4	153.0	145.8	7.21	21.219	
600.0	600.0	604.6	604.6	3.6	3.6	167.77	-149.5	32.4	153.0	145.7	7.28	21.001	
665.0	665.0	669.6	669.6	3.7	3.7	167.77	-149.5	32.4	153.0	145.5	7.44	20.561	
700.0	700.0	704.6	704.6	3.8	3.8	167.77	-149.5	32.4	153.0	145.4	7.53	20.325	
760.0	760.0	764.6	764.6	3.8	3.8	167.77	-149.5	32.4	153.0	145.3	7.67	19.946	
800.0	800.0	804.6	804.6	3.9	3.9	167.77	-149.5	32.4	153.0	145.2	7.77	19.695	
855.0	855.0	859.6	859.6	4.0	4.0	167.77	-149.5	32.4	153.0	145.1	7.90	19.370	
900.0	900.0	904.6	904.6	4.0	4.0	167.77	-149.5	32.4	153.0	145.0	8.01	19.106	
950.0	950.0	954.6	954.6	4.1	4.1	167.77	-149.5	32.4	153.0	144.8	8.12	18.828	
1,000.0	1,000.0	1,004.6	1,004.6	4.1	4.1	167.77	-149.5	32.4	153.0	144.7	8.24	18.554	
1,045.0	1,045.0	1,049.6	1,049.6	4.2	4.2	167.77	-149.5	32.4	153.0	144.6	8.35	18.319	
1,100.0	1,100.0	1,104.6	1,104.6	4.2	4.3	167.77	-149.5	32.4	153.0	144.5	8.48	18.035	
1,140.0	1,140.0	1,144.6	1,144.6	4.3	4.3	167.77	-149.5	32.4	153.0	144.4	8.58	17.838	
1,200.0	1,200.0	1,204.6	1,204.6	4.4	4.4	167.77	-149.5	32.4	153.0	144.3	8.72	17.546	
1,235.0	1,235.0	1,239.6	1,239.6	4.4	4.4	167.77	-149.5	32.4	153.0	144.2	8.80	17.383	
1,300.0	1,300.0	1,304.6	1,304.6	4.5	4.5	167.77	-149.5	32.4	153.0	144.0	8.95	17.085	
1,330.0	1,330.0	1,334.6	1,334.6	4.5	4.5	167.77	-149.5	32.4	153.0	143.9	9.02	16.953	
1,400.0	1,400.0	1,404.6	1,404.6	4.6	4.6	167.77	-149.5	32.4	153.0	143.8	9.19	16.649	
1,425.0	1,425.0	1,429.6	1,429.6	4.6	4.6	167.77	-149.5	32.4	153.0	143.7	9.25	16.545	
1,500.0	1,500.0	1,504.8	1,504.8	4.7	4.7	167.77	-149.5	32.4	153.0	143.5	9.42	16.233	
1,520.0	1,520.0	1,525.7	1,525.7	4.8	4.8	-167.75	-149.4	32.3	152.9	143.5	9.49	16.114	
1,537.3	1,537.3	1,543.8	1,543.8	4.8	4.8	-167.72	-149.3	32.2	152.9	143.4	9.55	16.009 CC	
1,600.0	1,600.0	1,609.5	1,609.4	4.9	4.9	-167.48	-148.0	30.9	153.0	143.2	9.80	15.615	
1,615.0	1,615.0	1,625.1	1,625.1	4.9	4.9	-167.39	-147.6	30.4	153.1	143.2	9.87	15.504	
1,700.0	1,699.8	1,714.0	1,713.8	5.2	5.2	-166.69	-143.9	26.7	153.5	143.2	10.29	14.913 ES	
1,710.0	1,709.8	1,724.5	1,724.3	5.2	5.2	-166.58	-143.4	26.1	153.5	143.2	10.34	14.847	
1,800.0	1,799.5	1,818.6	1,817.9	5.4	5.4	-165.41	-137.2	19.7	154.4	143.6	10.79	14.299	
1,805.0	1,804.4	1,823.8	1,823.1	5.5	5.4	-165.33	-136.8	19.3	154.4	143.6	10.82	14.270	
1,900.0	1,898.7	1,923.0	1,921.4	5.7	5.7	-163.66	-127.8	10.0	155.8	144.5	11.28	13.806	
1,995.0	1,992.5	2,019.0	2,016.3	6.0	5.9	-161.85	-117.5	-0.7	158.4	146.7	11.70	13.543	
2,000.0	1,997.5	2,024.0	2,021.2	6.1	5.9	-161.77	-116.9	-1.3	158.6	146.9	11.72	13.532	
2,050.0	2,046.6	2,073.8	2,070.4	6.2	6.0	-160.99	-111.5	-6.9	161.3	149.4	11.92	13.535	
2,090.0	2,085.9	2,113.7	2,109.9	6.2	6.1	-160.44	-107.2	-11.4	163.8	151.7	12.07	13.563	
2,100.0	2,095.7	2,123.7	2,119.7	6.3	6.2	-160.30	-106.1	-12.5	164.4	152.3	12.11	13.569	
2,185.0	2,179.1	2,208.5	2,203.5	6.5	6.4	-159.19	-96.9	-22.0	169.7	157.2	12.52	13.550	
2,200.0	2,193.9	2,223.5	2,218.2	6.5	6.5	-159.01	-95.2	-23.7	170.6	158.0	12.60	13.546	
2,280.0	2,272.4	2,303.2	2,297.0	6.8	6.7	-158.04	-86.6	-32.7	175.7	162.7	13.00	13.518	
2,300.0	2,292.0	2,323.2	2,316.7	6.8	6.8	-157.80	-84.4	-34.9	177.0	163.9	13.10	13.510	
2,375.0	2,365.7	2,398.0	2,390.6	7.1	7.0	-156.95	-76.3	-43.3	181.8	168.3	13.49	13.477	
2,400.0	2,390.2	2,422.9	2,415.2	7.2	7.1	-156.68	-73.5	-46.1	183.4	169.8	13.62	13.467	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,470.0	2,458.9	2,492.7	2,484.2	7.4	7.3	-155.94	-66.0	-54.0	188.0	174.0	13.99	13.433	
2,500.0	2,488.4	2,522.6	2,513.7	7.5	7.4	-155.64	-62.7	-57.4	189.9	175.8	14.15	13.419	
2,565.0	2,552.2	2,587.5	2,577.8	7.7	7.6	-154.99	-55.6	-64.7	194.2	179.6	14.50	13.386	
2,600.0	2,586.5	2,622.4	2,612.2	7.9	7.7	-154.66	-51.8	-68.6	196.5	181.8	14.69	13.369	
2,660.0	2,645.4	2,682.2	2,671.3	8.1	8.0	-154.11	-45.3	-75.3	200.4	185.4	15.02	13.339	
2,700.0	2,684.7	2,722.1	2,710.8	8.2	8.1	-153.75	-41.0	-79.8	203.1	187.8	15.24	13.320	
2,755.0	2,738.7	2,777.0	2,764.9	8.4	8.3	-153.27	-35.0	-86.0	206.7	191.2	15.55	13.293	
2,800.0	2,782.8	2,821.8	2,809.3	8.6	8.5	-152.89	-30.2	-91.0	209.7	193.9	15.80	13.272	
2,850.0	2,831.9	2,871.7	2,858.5	8.8	8.6	-152.49	-24.7	-96.6	213.0	197.0	16.08	13.249	
2,900.0	2,881.0	2,921.6	2,907.8	9.0	8.8	-152.09	-19.3	-102.2	216.4	200.0	16.36	13.227	
2,945.0	2,925.2	2,966.5	2,952.1	9.1	9.0	-151.75	-14.4	-107.3	219.4	202.8	16.61	13.207	
3,000.0	2,979.2	3,021.3	3,006.3	9.4	9.2	-151.34	-8.5	-113.5	223.1	206.2	16.92	13.184	
3,040.0	3,018.4	3,061.2	3,045.7	9.5	9.4	-151.05	-4.1	-117.9	225.8	208.7	17.15	13.167	
3,100.0	3,077.3	3,121.0	3,104.8	9.7	9.6	-150.63	2.4	-124.7	229.9	212.4	17.49	13.144	
3,135.0	3,111.7	3,155.9	3,139.2	9.9	9.7	-150.39	6.2	-128.6	232.3	214.6	17.69	13.131	
3,200.0	3,175.5	3,220.8	3,203.3	10.1	10.0	-149.96	13.2	-135.9	236.7	218.6	18.06	13.107	
3,230.0	3,205.0	3,250.7	3,232.8	10.3	10.1	-149.77	16.5	-139.3	238.7	220.5	18.23	13.097	
3,300.0	3,273.7	3,320.5	3,301.8	10.6	10.4	-149.33	24.1	-147.1	243.5	224.9	18.63	13.073	
3,325.0	3,298.2	3,345.4	3,326.4	10.7	10.5	-149.17	26.8	-149.9	245.2	226.5	18.77	13.065	
3,400.0	3,371.8	3,420.2	3,400.3	11.0	10.8	-148.73	34.9	-158.3	250.4	231.2	19.20	13.042	
3,420.0	3,391.5	3,440.2	3,420.0	11.0	10.8	-148.61	37.1	-160.6	251.8	232.4	19.31	13.036	
3,500.0	3,470.0	3,520.0	3,498.8	11.4	11.2	-148.16	45.8	-169.5	257.3	237.5	19.77	13.014	
3,515.0	3,484.7	3,534.9	3,513.6	11.4	11.2	-148.08	47.4	-171.2	258.3	238.4	19.85	13.010	
3,600.0	3,568.2	3,619.7	3,597.3	11.8	11.6	-147.63	56.6	-180.8	264.2	243.8	20.34	12.989	
3,610.0	3,578.0	3,629.7	3,607.1	11.8	11.6	-147.58	57.7	-181.9	264.9	244.5	20.40	12.986	
3,700.0	3,666.3	3,719.4	3,695.8	12.2	12.0	-147.12	67.5	-192.0	271.1	250.2	20.91	12.966	
3,705.0	3,671.2	3,724.4	3,700.7	12.2	12.0	-147.10	68.0	-192.5	271.5	250.5	20.94	12.965	
3,800.0	3,764.5	3,819.2	3,794.3	12.6	12.4	-146.64	78.3	-203.2	278.1	256.6	21.48	12.945	
3,895.0	3,857.7	3,913.9	3,887.9	13.1	12.8	-146.20	88.6	-213.9	284.7	262.7	22.02	12.927	
3,900.0	3,862.6	3,918.9	3,892.8	13.1	12.8	-146.18	89.2	-214.4	285.0	263.0	22.05	12.927	
3,990.0	3,951.0	4,008.6	3,981.4	13.5	13.2	-145.78	98.9	-224.5	291.3	268.7	22.56	12.912	
4,000.0	3,960.8	4,018.6	3,991.3	13.5	13.2	-145.74	100.0	-225.6	292.0	269.4	22.62	12.910	
4,085.0	4,044.2	4,103.4	4,075.0	13.9	13.6	-145.38	109.2	-235.2	298.0	274.9	23.10	12.898	
4,097.4	4,056.4	4,115.8	4,087.2	13.9	13.6	-145.33	110.6	-236.6	298.8	275.7	23.17	12.896	
4,100.0	4,059.0	4,118.3	4,089.8	13.9	13.6	-145.33	110.9	-236.9	299.0	275.8	23.19	12.896	
4,180.0	4,137.7	4,198.2	4,168.6	14.3	14.0	-144.93	119.5	-245.8	303.7	280.0	23.64	12.846	
4,200.0	4,157.5	4,217.9	4,188.1	14.4	14.0	-144.80	121.7	-248.0	304.5	280.8	23.74	12.827	
4,275.0	4,231.7	4,290.6	4,260.1	14.7	14.3	-144.25	129.2	-255.8	307.2	283.1	24.09	12.750	
4,300.0	4,256.5	4,314.9	4,284.1	14.8	14.4	-144.06	131.6	-258.3	307.8	283.6	24.20	12.718	
4,370.0	4,326.1	4,382.9	4,351.4	15.1	14.7	-143.47	137.8	-264.7	309.0	284.5	24.49	12.618	
4,400.0	4,356.0	4,412.0	4,380.3	15.3	14.8	-143.20	140.3	-267.3	309.2	284.6	24.60	12.568	
4,465.0	4,420.8	4,475.1	4,443.0	15.5	15.1	-142.57	145.4	-272.6	309.2	284.4	24.82	12.457	
4,500.0	4,455.7	4,509.1	4,476.8	15.6	15.2	-142.20	148.0	-275.2	308.8	283.9	24.93	12.390	
4,560.0	4,515.7	4,567.4	4,534.8	15.8	15.4	-141.53	152.0	-279.4	307.7	282.7	25.06	12.278	
4,600.0	4,555.6	4,606.3	4,573.5	16.0	15.6	-141.05	154.5	-281.9	306.7	281.5	25.15	12.194	
4,647.4	4,603.0	4,652.3	4,619.4	16.0	15.8	-164.90	157.1	-284.7	305.0	279.9	25.16	12.124	
4,655.0	4,610.6	4,659.7	4,626.8	16.0	15.8	-164.80	157.5	-285.1	304.7	279.6	25.15	12.114	
4,700.0	4,655.6	4,703.5	4,670.4	16.1	15.9	-164.26	159.8	-287.5	303.1	278.0	25.13	12.061	
4,750.0	4,705.6	4,752.2	4,719.0	16.1	16.1	-163.72	162.1	-289.8	301.6	276.4	25.13	12.000	
4,800.0	4,755.6	4,800.0	4,766.8	16.1	16.3	-163.25	164.0	-291.8	300.2	275.1	25.13	11.946	
4,845.0	4,800.6	4,844.8	4,811.5	16.1	16.4	-162.87	165.6	-293.4	299.2	274.0	25.15	11.895	

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-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	
4,900.0	4,855.6	4,898.5	4,865.1	16.2	16.6	-162.49	167.1	-295.0	298.2	273.0	25.19	11.838		
4,940.0	4,895.6	4,937.5	4,904.2	16.2	16.7	-162.26	168.0	-295.9	297.6	272.3	25.22	11.800		
5,000.0	4,955.6	4,996.2	4,962.8	16.2	16.9	-162.01	169.0	-297.0	296.9	271.6	25.28	11.744		
5,035.0	4,990.6	5,030.4	4,997.0	16.2	17.0	-161.91	169.4	-297.4	296.6	271.3	25.32	11.717		
5,100.0	5,055.6	5,094.0	5,060.6	16.3	17.1	-161.82	169.8	-297.8	296.4	271.0	25.41	11.667		
5,121.1	5,076.7	5,114.7	5,081.3	16.3	17.1	-161.82	169.8	-297.8	296.4	271.0	25.44	11.652		
5,130.0	5,085.6	5,123.6	5,090.2	16.3	17.1	-161.82	169.8	-297.8	296.4	271.0	25.45	11.646		
5,200.0	5,155.6	5,193.6	5,160.2	16.3	17.1	-161.82	169.8	-297.8	296.4	270.9	25.55	11.601		
5,225.0	5,180.6	5,218.6	5,185.2	16.4	17.1	-161.82	169.8	-297.8	296.4	270.8	25.59	11.585		
5,300.0	5,255.6	5,293.6	5,260.2	16.4	17.2	-161.82	169.8	-297.8	296.4	270.7	25.70	11.535		
5,320.0	5,275.6	5,313.6	5,280.2	16.4	17.2	-161.82	169.8	-297.8	296.4	270.7	25.73	11.521		
5,400.0	5,355.6	5,393.6	5,360.2	16.5	17.2	-161.82	169.8	-297.8	296.4	270.6	25.84	11.469		
5,415.0	5,370.6	5,408.6	5,375.2	16.5	17.2	-161.82	169.8	-297.8	296.4	270.5	25.87	11.459		
5,500.0	5,455.6	5,493.6	5,460.2	16.5	17.3	-161.82	169.8	-297.8	296.4	270.4	25.99	11.403		
5,510.0	5,465.6	5,503.6	5,470.2	16.5	17.3	-161.82	169.8	-297.8	296.4	270.4	26.01	11.397		
5,600.0	5,555.6	5,593.6	5,560.2	16.6	17.3	-161.82	169.8	-297.8	296.4	270.3	26.14	11.338		
5,605.0	5,560.6	5,598.6	5,565.2	16.6	17.3	-161.82	169.8	-297.8	296.4	270.3	26.15	11.335		
5,700.0	5,655.6	5,693.6	5,660.2	16.6	17.4	-161.82	169.8	-297.8	296.4	270.1	26.29	11.274		
5,795.0	5,750.6	5,788.6	5,755.2	16.7	17.4	-161.82	169.8	-297.8	296.4	270.0	26.43	11.214		
5,800.0	5,755.6	5,793.6	5,760.2	16.7	17.4	-161.82	169.8	-297.8	296.4	270.0	26.44	11.211		
5,890.0	5,845.6	5,883.6	5,850.2	16.7	17.5	-161.82	169.8	-297.8	296.4	269.8	26.57	11.154		
5,900.0	5,855.6	5,893.6	5,860.2	16.8	17.5	-161.82	169.8	-297.8	296.4	269.8	26.59	11.148		
5,985.0	5,940.6	5,978.6	5,945.2	16.8	17.5	-161.82	169.8	-297.8	296.4	269.7	26.72	11.095		
6,000.0	5,955.6	5,993.6	5,960.2	16.8	17.6	-161.82	169.8	-297.8	296.4	269.7	26.74	11.085		
6,080.0	6,035.6	6,073.6	6,040.2	16.9	17.6	-161.82	169.8	-297.8	296.4	269.5	26.86	11.036		
6,100.0	6,055.6	6,093.6	6,060.2	16.9	17.6	-161.82	169.8	-297.8	296.4	269.5	26.89	11.024		
6,175.0	6,130.6	6,168.6	6,135.2	16.9	17.6	-161.82	169.8	-297.8	296.4	269.4	27.00	10.978		
6,200.0	6,155.6	6,193.6	6,160.2	16.9	17.7	-161.82	169.8	-297.8	296.4	269.4	27.04	10.963		
6,270.0	6,225.6	6,263.6	6,230.2	17.0	17.7	-161.82	169.8	-297.8	296.4	269.3	27.14	10.920		
6,300.0	6,255.6	6,293.6	6,260.2	17.0	17.7	-161.82	169.8	-297.8	296.4	269.2	27.19	10.902		
6,365.0	6,320.6	6,358.6	6,325.2	17.0	17.8	-161.82	169.8	-297.8	296.4	269.1	27.28	10.863		
6,400.0	6,355.6	6,393.6	6,360.2	17.0	17.8	-161.82	169.8	-297.8	296.4	269.1	27.34	10.843		
6,460.0	6,415.6	6,453.6	6,420.2	17.1	17.8	-161.82	169.8	-297.8	296.4	269.0	27.43	10.807		
6,500.0	6,455.6	6,493.6	6,460.2	17.1	17.8	-161.82	169.8	-297.8	296.4	268.9	27.49	10.783		
6,555.0	6,510.6	6,548.6	6,515.2	17.1	17.9	-161.82	169.8	-297.8	296.4	268.8	27.57	10.751		
6,600.0	6,555.6	6,593.6	6,560.2	17.2	17.9	-161.82	169.8	-297.8	296.4	268.8	27.64	10.725		
6,650.0	6,605.6	6,643.6	6,610.2	17.2	17.9	-161.82	169.8	-297.8	296.4	268.7	27.71	10.696		
6,700.0	6,655.6	6,693.6	6,660.2	17.2	17.9	-161.82	169.8	-297.8	296.4	268.6	27.79	10.667		
6,745.0	6,700.6	6,738.6	6,705.2	17.3	18.0	-161.82	169.8	-297.8	296.4	268.5	27.86	10.641		
6,800.0	6,755.6	6,793.6	6,760.2	17.3	18.0	-161.82	169.8	-297.8	296.4	268.5	27.94	10.609		
6,840.0	6,795.6	6,833.6	6,800.2	17.3	18.0	-161.82	169.8	-297.8	296.4	268.4	28.00	10.587		
6,900.0	6,855.6	6,893.6	6,860.2	17.4	18.0	-161.82	169.8	-297.8	296.4	268.3	28.09	10.553		
6,935.0	6,890.6	6,928.6	6,895.2	17.4	18.1	-161.82	169.8	-297.8	296.4	268.3	28.14	10.533		
7,000.0	6,955.6	6,993.6	6,960.2	17.4	18.1	-161.82	169.8	-297.8	296.4	268.2	28.24	10.496		
7,030.0	6,985.6	7,023.6	6,990.2	17.4	18.1	-161.82	169.8	-297.8	296.4	268.1	28.28	10.479		
7,100.0	7,055.6	7,093.6	7,060.2	17.5	18.2	-161.82	169.8	-297.8	296.4	268.0	28.39	10.440		
7,125.0	7,080.6	7,118.6	7,085.2	17.5	18.2	-161.82	169.8	-297.8	296.4	268.0	28.43	10.427		
7,200.0	7,155.6	7,193.6	7,160.2	17.5	18.2	-161.82	169.8	-297.8	296.4	267.9	28.54	10.385		
7,220.0	7,175.6	7,213.6	7,180.2	17.6	18.2	-161.82	169.8	-297.8	296.4	267.8	28.57	10.374		
7,300.0	7,255.6	7,293.6	7,260.2	17.6	18.3	-161.82	169.8	-297.8	296.4	267.7	28.69	10.331		
7,315.0	7,270.6	7,308.6	7,275.2	17.6	18.3	-161.82	169.8	-297.8	296.4	267.7	28.71	10.322		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-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
7,400.0	7,355.6	7,393.6	7,360.2	17.7	18.3	-161.82		169.8	-297.8	296.4	267.6	28.84	10.276
7,410.0	7,365.6	7,403.6	7,370.2	17.7	18.3	-161.82		169.8	-297.8	296.4	267.5	28.86	10.271
7,500.0	7,455.6	7,493.6	7,460.2	17.7	18.4	-161.82		169.8	-297.8	296.4	267.4	28.99	10.223
7,505.0	7,460.6	7,498.6	7,465.2	17.7	18.4	-161.82		169.8	-297.8	296.4	267.4	29.00	10.220
7,600.0	7,555.6	7,593.6	7,560.2	17.8	18.4	-161.82		169.8	-297.8	296.4	267.3	29.15	10.170
7,695.0	7,650.6	7,688.6	7,655.2	17.8	18.5	-161.82		169.8	-297.8	296.4	267.1	29.29	10.120
7,700.0	7,655.6	7,693.6	7,660.2	17.8	18.5	-161.82		169.8	-297.8	296.4	267.1	29.30	10.117
7,790.0	7,745.6	7,783.6	7,750.2	17.9	18.6	-161.82		169.8	-297.8	296.4	267.0	29.43	10.070
7,800.0	7,755.6	7,793.6	7,760.2	17.9	18.6	-161.82		169.8	-297.8	296.4	267.0	29.45	10.065
7,885.0	7,840.6	7,878.6	7,845.2	18.0	18.6	-161.82		169.8	-297.8	296.4	266.8	29.58	10.021
7,900.0	7,855.6	7,893.6	7,860.2	18.0	18.6	-161.82		169.8	-297.8	296.4	266.8	29.60	10.013
7,980.0	7,935.6	7,973.6	7,940.2	18.0	18.7	-161.82		169.8	-297.8	296.4	266.7	29.72	9.972
8,000.0	7,955.6	7,993.6	7,960.2	18.0	18.7	-161.82		169.8	-297.8	296.4	266.7	29.75	9.962
8,075.0	8,030.6	8,068.6	8,035.2	18.1	18.7	-161.82		169.8	-297.8	296.4	266.5	29.87	9.924
8,100.0	8,055.6	8,093.6	8,060.2	18.1	18.7	-161.82		169.8	-297.8	296.4	266.5	29.90	9.912
8,170.0	8,125.6	8,163.6	8,130.2	18.1	18.8	-161.82		169.8	-297.8	296.4	266.4	30.01	9.876
8,200.0	8,155.6	8,193.6	8,160.2	18.2	18.8	-161.82		169.8	-297.8	296.4	266.3	30.06	9.861
8,265.0	8,220.6	8,258.6	8,225.2	18.2	18.8	-161.82		169.8	-297.8	296.4	266.2	30.16	9.829
8,300.0	8,255.6	8,293.6	8,260.2	18.2	18.8	-161.82		169.8	-297.8	296.4	266.2	30.21	9.812
8,360.0	8,315.6	8,353.6	8,320.2	18.3	18.9	-161.82		169.8	-297.8	296.4	266.1	30.30	9.782
8,400.0	8,355.6	8,393.6	8,360.2	18.3	18.9	-161.82		169.8	-297.8	296.4	266.0	30.36	9.762
8,401.5	8,357.2	8,395.1	8,361.8	18.3	18.9	-161.82		169.8	-297.8	296.4	266.0	30.36	9.762
8,455.0	8,410.6	8,448.6	8,409.9	18.3	18.9	-161.82		169.7	-297.8	296.5	266.2	30.37	9.763
8,500.0	8,455.6	8,493.6	8,460.2	18.4	18.9	-161.90		168.3	-297.8	298.5	268.2	30.33	9.840
8,550.0	8,505.6	8,543.6	8,510.2	18.4	19.0	-162.05		165.8	-297.8	303.4	273.1	30.24	10.031
8,600.0	8,555.6	8,593.6	8,560.2	18.4	19.0	-162.38		159.9	-297.9	310.8	280.5	30.32	10.250
8,645.0	8,600.6	8,638.6	8,605.2	18.4	19.0	-162.71		153.8	-297.9	319.8	289.5	30.34	10.542
8,700.0	8,655.6	8,693.6	8,660.2	18.5	19.0	-163.14		145.5	-298.0	333.8	303.4	30.35	10.997
8,740.0	8,695.6	8,733.6	8,700.2	18.5	19.1	-163.55		137.3	-298.1	345.8	315.4	30.42	11.368
8,800.0	8,755.6	8,793.6	8,760.2	18.5	19.1	-164.13		124.7	-298.2	366.8	336.3	30.49	12.027
8,835.0	8,790.6	8,828.6	8,795.2	18.6	19.1	-164.48		116.7	-298.2	380.5	350.0	30.54	12.457
8,900.0	8,855.6	8,893.6	8,860.2	18.6	19.1	-165.12		101.2	-298.4	408.8	378.2	30.65	13.337
8,930.0	8,885.6	8,923.6	8,890.2	18.6	19.1	-165.41		93.7	-298.4	423.1	392.4	30.71	13.777
9,000.0	8,955.6	8,993.6	8,960.2	18.7	19.2	-166.05		75.9	-298.6	459.0	428.1	30.85	14.876
9,025.0	8,980.6	9,018.6	8,985.2	18.7	19.2	-166.27		69.5	-298.6	472.6	441.7	30.91	15.292
9,100.0	9,055.6	9,093.6	9,060.2	18.7	19.2	-166.71		55.9	-298.7	516.2	485.2	31.03	16.637
9,120.0	9,075.6	9,113.6	9,080.2	18.8	19.2	-167.04		45.0	-298.8	528.2	497.1	31.14	16.965
9,200.0	9,155.6	9,193.6	9,160.2	18.8	19.3	-167.63		24.3	-299.0	579.1	547.7	31.36	18.469
9,215.0	9,170.6	9,208.6	9,175.2	18.8	19.3	-167.63		24.3	-299.0	589.0	557.7	31.37	18.777
9,257.4	9,213.0	9,251.0	9,219.6	18.8	19.3	-167.98		10.8	-299.1	617.6	586.1	31.51	19.601
9,300.0	9,255.6	9,293.6	9,260.2	18.9	19.3	-168.58		0.2	-299.2	646.0	614.6	31.39	20.582
9,310.0	9,265.6	9,303.6	9,270.2	18.9	19.3	-168.58		-10.6	-299.3	652.7	621.2	31.46	20.744
9,350.0	9,305.6	9,343.6	9,310.2	18.9	19.3	-169.18		-10.6	-299.3	677.4	645.9	31.54	21.481
9,400.0	9,354.2	9,392.2	9,360.8	19.0	19.3	-169.78		-26.4	-299.4	706.7	675.0	31.71	22.286
9,405.0	9,359.0	9,397.0	9,365.6	19.0	19.3	-169.78		-27.8	-299.4	709.5	677.8	31.73	22.362
9,450.0	9,402.0	9,440.0	9,408.6	19.1	19.4	-170.38		-48.5	-299.6	733.9	702.0	31.91	22.999
9,500.0	9,448.5	9,486.5	9,455.1	19.1	19.4	-170.98		-48.5	-299.6	758.6	726.6	32.05	23.672
9,550.0	9,493.1	9,531.1	9,500.7	19.2	19.4	-171.58		-70.8	-299.8	780.9	748.7	32.26	24.207
9,595.0	9,531.4	9,569.4	9,538.0	19.2	19.4	-172.18		-89.1	-299.9	799.1	766.6	32.45	24.623
9,600.0	9,535.6	9,573.6	9,542.2	19.3	19.4	-172.18		-89.1	-299.9	800.9	768.5	32.47	24.668
9,650.0	9,575.6	9,613.6	9,582.2	19.3	19.4	-172.78		-103.1	-300.1	818.5	785.8	32.68	25.044

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-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)			
9,690.0	9,605.7	9,032.3	8,895.2	19.4	19.4	6.50	-116.6	-300.2	830.7	797.9	32.86	25.278	
9,700.0	9,612.9	9,050.0	8,903.8	19.4	19.5	6.43	-132.0	-300.3	833.8	800.9	32.92	25.326	
9,750.0	9,647.2	9,050.0	8,903.8	19.4	19.5	6.29	-132.0	-300.3	846.1	813.0	33.15	25.527	
9,785.0	9,669.2	9,069.8	8,912.8	19.5	19.5	6.18	-149.6	-300.4	853.3	820.0	33.33	25.606	
9,800.0	9,678.1	9,075.7	8,915.4	19.5	19.5	6.14	-154.9	-300.5	856.1	822.7	33.40	25.629	
9,850.0	9,705.5	9,100.0	8,925.5	19.6	19.5	6.04	-177.1	-300.7	863.5	829.8	33.66	25.650	
9,880.0	9,720.2	9,100.0	8,925.5	19.6	19.5	6.00	-177.1	-300.7	866.7	832.9	33.83	25.623	
9,900.0	9,729.1	9,115.4	8,931.4	19.6	19.5	5.98	-191.3	-300.8	868.3	834.3	33.94	25.585	
9,950.0	9,748.9	9,150.0	8,943.2	19.6	19.6	5.94	-223.8	-301.1	870.8	836.6	34.21	25.450	
9,975.0	9,757.2	9,150.0	8,943.2	19.7	19.6	5.94	-223.8	-301.1	870.6	836.2	34.36	25.337	
10,000.0	9,764.5	9,150.0	8,943.2	19.7	19.6	5.95	-223.8	-301.1	870.1	835.6	34.51	25.211	
10,050.0	9,776.0	9,175.1	8,950.5	19.7	19.6	5.99	-247.8	-301.3	867.0	832.2	34.81	24.908	
10,070.0	9,779.3	9,183.1	8,952.6	19.7	19.6	6.02	-255.5	-301.3	865.1	830.2	34.93	24.766	
10,100.0	9,783.1	9,200.0	8,956.8	19.7	19.6	6.07	-271.9	-301.4	861.4	826.3	35.11	24.536	
10,150.0	9,786.0	9,200.0	8,956.8	19.8	19.6	6.16	-271.9	-301.4	853.5	818.1	35.44	24.081	
10,157.1	9,786.0	9,217.6	8,960.5	19.8	19.6	6.20	-289.1	-301.6	851.8	816.3	35.46	24.019	
10,165.0	9,786.0	9,220.7	8,961.1	19.8	19.6	6.20	-292.2	-301.6	850.3	814.8	35.51	23.947	
10,200.0	9,786.0	9,234.7	8,963.7	19.8	19.6	6.22	-305.9	-301.7	844.0	808.3	35.69	23.646	
10,260.0	9,786.1	9,250.0	8,966.1	19.8	19.6	6.24	-321.0	-301.9	835.2	799.2	36.05	23.169	
10,300.0	9,786.1	9,275.1	8,969.1	19.8	19.7	6.26	-345.9	-302.1	830.6	794.3	36.27	22.900	
10,355.0	9,786.1	9,300.0	8,971.1	19.9	19.7	6.28	-370.7	-302.3	826.2	789.6	36.61	22.569	
10,400.0	9,786.1	9,316.1	8,971.8	19.9	19.7	6.28	-386.8	-302.4	824.2	787.4	36.88	22.348	
10,450.0	9,786.2	9,343.2	8,972.0	19.9	19.7	6.28	-413.9	-302.6	823.7	786.5	37.17	22.159	
10,500.0	9,786.2	9,393.2	8,972.0	19.9	19.8	6.28	-463.9	-303.0	823.7	786.3	37.40	22.023	
10,545.0	9,786.2	9,438.2	8,972.1	20.0	19.8	6.28	-508.9	-303.4	823.7	786.1	37.63	21.888	
10,600.0	9,786.2	9,493.2	8,972.1	20.0	19.9	6.28	-563.9	-303.9	823.7	785.8	37.92	21.724	
10,640.0	9,786.3	9,533.2	8,972.1	20.0	19.9	6.28	-603.9	-304.2	823.7	785.5	38.14	21.594	
10,700.0	9,786.3	9,593.2	8,972.2	20.1	20.0	6.28	-663.9	-304.7	823.7	785.2	38.49	21.400	
10,735.0	9,786.3	9,628.2	8,972.2	20.1	20.1	6.28	-698.9	-305.0	823.7	785.0	38.71	21.279	
10,800.0	9,786.3	9,693.2	8,972.2	20.2	20.2	6.28	-763.9	-305.5	823.7	784.6	39.12	21.056	
10,830.0	9,786.4	9,723.2	8,972.2	20.2	20.2	6.28	-793.9	-305.8	823.7	784.3	39.32	20.947	
10,900.0	9,786.4	9,793.2	8,972.3	20.3	20.3	6.28	-863.9	-306.3	823.7	783.9	39.80	20.695	
10,925.0	9,786.4	9,818.2	8,972.3	20.3	20.4	6.28	-888.9	-306.5	823.7	783.7	39.98	20.602	
11,000.0	9,786.4	9,893.2	8,972.3	20.4	20.5	6.28	-963.9	-307.2	823.7	783.1	40.53	20.322	
11,020.0	9,786.5	9,913.2	8,972.3	20.4	20.5	6.28	-983.9	-307.3	823.7	783.0	40.68	20.245	
11,100.0	9,786.5	9,993.2	8,972.4	20.5	20.7	6.28	-1,063.9	-308.0	823.6	782.3	41.31	19.940	
11,115.0	9,786.5	10,008.2	8,972.4	20.6	20.7	6.28	-1,078.9	-308.1	823.6	782.2	41.43	19.881	
11,200.0	9,786.5	10,093.2	8,972.5	20.7	20.9	6.28	-1,163.9	-308.8	823.6	781.5	42.13	19.551	
11,210.0	9,786.6	10,103.2	8,972.5	20.7	21.0	6.28	-1,173.9	-308.9	823.6	781.4	42.21	19.511	
11,300.0	9,786.6	10,193.2	8,972.5	20.9	21.2	6.28	-1,263.8	-309.6	823.6	780.6	42.99	19.158	
11,305.0	9,786.6	10,198.2	8,972.5	20.9	21.2	6.28	-1,268.8	-309.7	823.6	780.6	43.04	19.138	
11,400.0	9,786.7	10,293.2	8,972.6	21.1	21.5	6.28	-1,363.8	-310.5	823.6	779.7	43.89	18.764	
11,495.0	9,786.7	10,388.2	8,972.6	21.4	21.7	6.28	-1,458.8	-311.3	823.6	778.8	44.79	18.389	
11,500.0	9,786.7	10,393.2	8,972.6	21.4	21.8	6.28	-1,463.8	-311.3	823.6	778.8	44.83	18.370	
11,590.0	9,786.8	10,483.2	8,972.7	21.6	22.0	6.28	-1,553.8	-312.0	823.6	777.9	45.71	18.017	
11,600.0	9,786.8	10,493.2	8,972.7	21.7	22.1	6.28	-1,563.8	-312.1	823.6	777.8	45.81	17.979	
11,685.0	9,786.8	10,578.2	8,972.7	21.9	22.4	6.28	-1,648.8	-312.8	823.6	776.9	46.66	17.649	
11,700.0	9,786.8	10,593.2	8,972.8	22.0	22.4	6.28	-1,663.8	-312.9	823.6	776.8	46.82	17.592	
11,780.0	9,786.9	10,673.2	8,972.8	22.3	22.7	6.28	-1,743.8	-313.6	823.6	775.9	47.65	17.286	
11,800.0	9,786.9	10,693.2	8,972.8	22.4	22.8	6.28	-1,763.8	-313.8	823.6	775.7	47.85	17.211	
11,875.0	9,786.9	10,768.2	8,972.9	22.7	23.1	6.28	-1,838.8	-314.4	823.6	774.9	48.65	16.928	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
11,900.0	9,786.9	10,793.2	8,972.9	22.8	23.2	6.28	6.28	-1,863.8	-314.6	823.6	774.7	48.92	16.836
11,970.0	9,787.0	10,863.2	8,972.9	23.1	23.5	6.28	6.28	-1,933.8	-315.2	823.6	773.9	49.68	16.576
12,000.0	9,787.0	10,893.2	8,972.9	23.2	23.6	6.28	6.28	-1,963.8	-315.4	823.6	773.6	50.01	16.468
12,065.0	9,787.0	10,958.2	8,973.0	23.5	23.9	6.28	6.28	-2,028.8	-316.0	823.6	772.8	50.74	16.232
12,100.0	9,787.0	10,993.2	8,973.0	23.7	24.0	6.28	6.28	-2,063.8	-316.3	823.6	772.4	51.13	16.108
12,160.0	9,787.0	11,053.2	8,973.0	24.0	24.3	6.28	6.28	-2,123.8	-316.7	823.6	771.7	51.81	15.895
12,200.0	9,787.1	11,093.2	8,973.1	24.2	24.5	6.28	6.28	-2,163.8	-317.1	823.6	771.3	52.27	15.756
12,255.0	9,787.1	11,148.2	8,973.1	24.5	24.8	6.28	6.28	-2,218.8	-317.5	823.6	770.6	52.91	15.566
12,300.0	9,787.1	11,193.2	8,973.1	24.7	25.0	6.28	6.28	-2,263.8	-317.9	823.6	770.1	53.43	15.413
12,350.0	9,787.1	11,243.2	8,973.1	25.0	25.2	6.28	6.28	-2,313.8	-318.3	823.5	769.5	54.02	15.244
12,400.0	9,787.2	11,293.2	8,973.2	25.3	25.5	6.28	6.28	-2,363.8	-318.7	823.5	768.9	54.61	15.079
12,445.0	9,787.2	11,338.2	8,973.2	25.6	25.7	6.28	6.28	-2,408.8	-319.1	823.5	768.4	55.15	14.931
12,500.0	9,787.2	11,393.2	8,973.2	25.9	26.0	6.28	6.28	-2,463.8	-319.6	823.5	767.7	55.82	14.754
12,540.0	9,787.2	11,433.2	8,973.3	26.1	26.2	6.28	6.28	-2,503.8	-319.9	823.5	767.2	56.30	14.627
12,600.0	9,787.3	11,493.2	8,973.3	26.5	26.5	6.28	6.28	-2,563.8	-320.4	823.5	766.5	57.04	14.439
12,635.0	9,787.3	11,528.2	8,973.3	26.7	26.7	6.28	6.28	-2,598.8	-320.7	823.5	766.1	57.47	14.330
12,700.0	9,787.3	11,593.2	8,973.4	27.0	27.1	6.28	6.28	-2,663.8	-321.2	823.5	765.2	58.27	14.132
12,730.0	9,787.3	11,623.2	8,973.4	27.2	27.2	6.28	6.28	-2,693.8	-321.5	823.5	764.9	58.65	14.042
12,800.0	9,787.4	11,693.2	8,973.4	27.7	27.6	6.28	6.28	-2,763.8	-322.0	823.5	764.0	59.52	13.835
12,825.0	9,787.4	11,718.2	8,973.4	27.8	27.8	6.28	6.28	-2,788.8	-322.2	823.5	763.7	59.84	13.762
12,900.0	9,787.4	11,793.2	8,973.5	28.3	28.2	6.28	6.28	-2,863.8	-322.9	823.5	762.7	60.79	13.546
12,920.0	9,787.4	11,813.2	8,973.5	28.4	28.3	6.28	6.28	-2,883.8	-323.0	823.5	762.5	61.05	13.490
13,000.0	9,787.5	11,893.2	8,973.5	28.9	28.8	6.28	6.28	-2,963.8	-323.7	823.5	761.4	62.07	13.267
13,015.0	9,787.5	11,908.2	8,973.5	29.0	28.9	6.28	6.28	-2,978.8	-323.8	823.5	761.2	62.27	13.226
13,100.0	9,787.5	11,993.2	8,973.6	29.5	29.4	6.28	6.28	-3,063.8	-324.5	823.5	760.1	63.37	12.996
13,110.0	9,787.5	12,003.2	8,973.6	29.6	29.4	6.28	6.28	-3,073.8	-324.6	823.5	760.0	63.50	12.969
13,200.0	9,787.6	12,093.2	8,973.7	30.2	30.0	6.28	6.28	-3,163.8	-325.3	823.5	758.8	64.67	12.733
13,205.0	9,787.6	12,098.2	8,973.7	30.2	30.0	6.28	6.28	-3,168.8	-325.4	823.5	758.7	64.74	12.720
13,300.0	9,787.6	12,193.2	8,973.7	30.8	30.6	6.28	6.28	-3,263.8	-326.2	823.5	757.5	65.99	12.479
13,395.0	9,787.7	12,288.2	8,973.8	31.5	31.2	6.28	6.28	-3,358.8	-327.0	823.5	756.2	67.25	12.245
13,400.0	9,787.7	12,293.2	8,973.8	31.5	31.2	6.28	6.28	-3,363.8	-327.0	823.5	756.1	67.32	12.233
13,490.0	9,787.7	12,383.2	8,973.8	32.1	31.8	6.28	6.28	-3,453.8	-327.7	823.5	754.9	68.52	12.018
13,500.0	9,787.8	12,393.2	8,973.8	32.2	31.8	6.28	6.28	-3,463.8	-327.8	823.5	754.8	68.65	11.994
13,585.0	9,787.8	12,478.2	8,973.9	32.7	32.4	6.28	6.28	-3,548.8	-328.5	823.5	753.7	69.80	11.797
13,600.0	9,787.8	12,493.2	8,973.9	32.8	32.5	6.28	6.28	-3,563.8	-328.6	823.4	753.4	70.00	11.763
13,680.0	9,787.8	12,573.2	8,973.9	33.4	33.0	6.28	6.28	-3,643.8	-329.3	823.4	752.4	71.09	11.583
13,700.0	9,787.9	12,593.2	8,974.0	33.5	33.1	6.28	6.28	-3,663.8	-329.5	823.4	752.1	71.36	11.539
13,775.0	9,787.9	12,668.2	8,974.0	34.0	33.6	6.28	6.28	-3,738.8	-330.1	823.4	751.1	72.38	11.376
13,800.0	9,787.9	12,693.2	8,974.0	34.2	33.7	6.28	6.28	-3,763.8	-330.3	823.4	750.7	72.72	11.323
13,870.0	9,787.9	12,763.2	8,974.1	34.7	34.2	6.28	6.28	-3,833.8	-330.9	823.4	749.7	73.69	11.175
13,900.0	9,788.0	12,793.2	8,974.1	34.9	34.4	6.28	6.28	-3,863.8	-331.1	823.4	749.3	74.10	11.113
13,965.0	9,788.0	12,858.2	8,974.1	35.3	34.8	6.28	6.28	-3,928.8	-331.7	823.4	748.4	75.00	10.980
14,000.0	9,788.0	12,893.2	8,974.1	35.6	35.0	6.28	6.28	-3,963.8	-332.0	823.4	747.9	75.48	10.909
14,060.0	9,788.0	12,953.2	8,974.2	36.0	35.4	6.28	6.28	-4,023.8	-332.4	823.4	747.1	76.31	10.790
14,100.0	9,788.1	12,993.2	8,974.2	36.3	35.7	6.28	6.28	-4,063.8	-332.8	823.4	746.5	76.87	10.712
14,155.0	9,788.1	13,048.2	8,974.2	36.6	36.1	6.28	6.28	-4,118.8	-333.2	823.4	745.8	77.63	10.606
14,200.0	9,788.1	13,093.2	8,974.3	37.0	36.4	6.28	6.28	-4,163.7	-333.6	823.4	745.1	78.26	10.521
14,250.0	9,788.1	13,143.2	8,974.3	37.3	36.7	6.28	6.28	-4,213.7	-334.0	823.4	744.4	78.96	10.428
14,300.0	9,788.2	13,193.2	8,974.3	37.7	37.0	6.28	6.28	-4,263.7	-334.4	823.4	743.7	79.66	10.336
14,345.0	9,788.2	13,238.2	8,974.3	38.0	37.4	6.28	6.28	-4,308.7	-334.8	823.4	743.1	80.30	10.254
14,400.0	9,788.2	13,293.2	8,974.4	38.4	37.7	6.28	6.28	-4,363.7	-335.3	823.4	742.3	81.07	10.156

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,440.0	9,788.2	13,333.2	8,974.4	38.6	38.0	6.28	-4,403.7	-335.6	823.4	741.7	81.64	10.086	
14,500.0	9,788.3	13,393.2	8,974.4	39.1	38.4	6.28	-4,463.7	-336.1	823.4	740.9	82.48	9.982	
14,535.0	9,788.3	13,428.2	8,974.5	39.3	38.6	6.28	-4,498.7	-336.4	823.4	740.4	82.98	9.922	
14,600.0	9,788.3	13,493.2	8,974.5	39.8	39.1	6.28	-4,563.7	-336.9	823.4	739.5	83.90	9.813	
14,630.0	9,788.3	13,523.2	8,974.5	40.0	39.3	6.28	-4,593.7	-337.2	823.4	739.0	84.33	9.764	
14,700.0	9,788.4	13,593.2	8,974.6	40.5	39.8	6.28	-4,663.7	-337.7	823.4	738.0	85.33	9.649	
14,725.0	9,788.4	13,618.2	8,974.6	40.6	39.9	6.28	-4,688.7	-337.9	823.4	737.7	85.69	9.609	
14,800.0	9,788.4	13,693.2	8,974.6	41.2	40.5	6.28	-4,763.7	-338.6	823.4	736.6	86.76	9.490	
14,820.0	9,788.4	13,713.2	8,974.6	41.3	40.6	6.28	-4,783.7	-338.7	823.4	736.3	87.04	9.459	
14,900.0	9,788.5	13,793.2	8,974.7	41.9	41.2	6.28	-4,863.7	-339.4	823.3	735.2	88.19	9.336	
14,915.0	9,788.5	13,808.2	8,974.7	42.0	41.3	6.28	-4,878.7	-339.5	823.3	734.9	88.41	9.313	
15,000.0	9,788.5	13,893.2	8,974.7	42.6	41.8	6.28	-4,963.7	-340.2	823.3	733.7	89.63	9.186	
15,010.0	9,788.5	13,903.2	8,974.7	42.7	41.9	6.28	-4,973.7	-340.3	823.3	733.6	89.77	9.171	
15,100.0	9,788.6	13,993.2	8,974.8	43.3	42.5	6.28	-5,063.7	-341.0	823.3	732.3	91.07	9.040	
15,105.0	9,788.6	13,998.2	8,974.8	43.4	42.6	6.28	-5,068.7	-341.1	823.3	732.2	91.14	9.033	
15,200.0	9,788.6	14,093.2	8,974.9	44.0	43.2	6.28	-5,163.7	-341.9	823.3	730.8	92.52	8.899	
15,295.0	9,788.7	14,188.2	8,974.9	44.7	43.9	6.28	-5,258.7	-342.6	823.3	729.4	93.90	8.768	
15,300.0	9,788.7	14,193.2	8,974.9	44.8	43.9	6.28	-5,263.7	-342.7	823.3	729.3	93.97	8.762	
15,390.0	9,788.7	14,283.2	8,975.0	45.4	44.6	6.28	-5,353.7	-343.4	823.3	728.0	95.28	8.641	
15,400.0	9,788.7	14,293.2	8,975.0	45.5	44.7	6.28	-5,363.7	-343.5	823.3	727.9	95.42	8.628	
15,485.0	9,788.8	14,378.2	8,975.0	46.1	45.3	6.28	-5,448.7	-344.2	823.3	726.6	96.66	8.517	
15,500.0	9,788.8	14,393.2	8,975.0	46.2	45.4	6.28	-5,463.7	-344.3	823.3	726.4	96.88	8.498	
15,580.0	9,788.8	14,473.2	8,975.1	46.8	45.9	6.28	-5,543.7	-345.0	823.3	725.2	98.05	8.397	
15,600.0	9,788.9	14,493.2	8,975.1	46.9	46.1	6.28	-5,563.7	-345.2	823.3	724.9	98.34	8.372	
15,675.0	9,788.9	14,568.2	8,975.1	47.5	46.6	6.28	-5,638.7	-345.8	823.3	723.8	99.44	8.279	
15,700.0	9,788.9	14,593.2	8,975.2	47.6	46.8	6.28	-5,663.7	-346.0	823.3	723.5	99.81	8.249	
15,770.0	9,788.9	14,663.2	8,975.2	48.2	47.3	6.28	-5,733.7	-346.6	823.3	722.4	100.84	8.165	
15,800.0	9,789.0	14,693.2	8,975.2	48.4	47.5	6.28	-5,763.7	-346.8	823.3	722.0	101.28	8.129	
15,865.0	9,789.0	14,758.2	8,975.3	48.8	48.0	6.28	-5,828.7	-347.4	823.3	721.0	102.23	8.053	
15,900.0	9,789.0	14,793.2	8,975.3	49.1	48.2	6.28	-5,863.7	-347.6	823.3	720.5	102.75	8.013	
15,960.0	9,789.0	14,853.2	8,975.3	49.5	48.6	6.28	-5,923.7	-348.1	823.3	719.6	103.63	7.944	
16,000.0	9,789.1	14,893.2	8,975.3	49.8	48.9	6.28	-5,963.7	-348.5	823.3	719.0	104.22	7.899	
16,055.0	9,789.1	14,948.2	8,975.4	50.2	49.3	6.28	-6,018.7	-348.9	823.3	718.2	105.03	7.838	
16,100.0	9,789.1	14,993.2	8,975.4	50.6	49.6	6.28	-6,063.7	-349.3	823.3	717.6	105.70	7.789	
16,150.0	9,789.1	15,043.2	8,975.4	50.9	50.0	6.28	-6,113.7	-349.7	823.3	716.8	106.44	7.735	
16,200.0	9,789.2	15,093.2	8,975.5	51.3	50.4	6.28	-6,163.7	-350.1	823.2	716.1	107.18	7.681	
16,245.0	9,789.2	15,138.2	8,975.5	51.6	50.7	6.28	-6,208.7	-350.5	823.2	715.4	107.84	7.634	
16,300.0	9,789.2	15,193.2	8,975.5	52.0	51.1	6.28	-6,263.7	-351.0	823.2	714.6	108.66	7.576	
16,340.0	9,789.2	15,233.2	8,975.5	52.3	51.4	6.28	-6,303.7	-351.3	823.2	714.0	109.25	7.535	
16,400.0	9,789.3	15,293.2	8,975.6	52.8	51.8	6.28	-6,363.7	-351.8	823.2	713.1	110.14	7.474	
16,435.0	9,789.3	15,328.2	8,975.6	53.0	52.0	6.28	-6,398.7	-352.1	823.2	712.6	110.66	7.439	
16,500.0	9,789.3	15,393.2	8,975.6	53.5	52.5	6.28	-6,463.7	-352.6	823.2	711.6	111.63	7.375	
16,530.0	9,789.3	15,423.2	8,975.7	53.7	52.7	6.28	-6,493.7	-352.9	823.2	711.1	112.07	7.345	
16,600.0	9,789.4	15,493.2	8,975.7	54.2	53.2	6.28	-6,563.7	-353.4	823.2	710.1	113.12	7.278	
16,625.0	9,789.4	15,518.2	8,975.7	54.4	53.4	6.28	-6,588.7	-353.6	823.2	709.7	113.49	7.254	
16,700.0	9,789.4	15,593.2	8,975.8	55.0	54.0	6.28	-6,663.7	-354.3	823.2	708.6	114.61	7.183	
16,720.0	9,789.4	15,613.2	8,975.8	55.1	54.1	6.28	-6,683.7	-354.4	823.2	708.3	114.90	7.164	
16,800.0	9,789.5	15,693.2	8,975.8	55.7	54.7	6.28	-6,763.7	-355.1	823.2	707.1	116.10	7.090	
16,815.0	9,789.5	15,708.2	8,975.8	55.8	54.8	6.28	-6,778.7	-355.2	823.2	706.9	116.32	7.077	
16,900.0	9,789.5	15,793.2	8,975.9	56.4	55.4	6.28	-6,863.7	-355.9	823.2	705.6	117.59	7.000	
16,910.0	9,789.5	15,803.2	8,975.9	56.5	55.5	6.28	-6,873.7	-356.0	823.2	705.4	117.74	6.991	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
17,000.0	9,789.6	15,893.2	8,975.9	57.2	56.2	6.28	-6,963.7	-356.7	823.2	704.1	119.09	6.912
17,005.0	9,789.6	15,898.2	8,975.9	57.2	56.2	6.28	-6,968.7	-356.8	823.2	704.0	119.17	6.908
17,100.0	9,789.6	15,993.2	8,976.0	57.9	56.9	6.28	-7,063.7	-357.6	823.2	702.6	120.59	6.826
17,195.0	9,789.7	16,088.2	8,976.1	58.6	57.6	6.28	-7,158.6	-358.3	823.2	701.2	122.01	6.747
17,200.0	9,789.7	16,093.2	8,976.1	58.6	57.6	6.28	-7,163.6	-358.4	823.2	701.1	122.09	6.742
17,290.0	9,789.7	16,183.2	8,976.1	59.3	58.3	6.28	-7,253.6	-359.1	823.2	699.7	123.44	6.668
17,300.0	9,789.7	16,193.2	8,976.1	59.4	58.3	6.28	-7,263.6	-359.2	823.2	699.6	123.59	6.660
17,385.0	9,789.8	16,278.2	8,976.2	60.0	59.0	6.28	-7,348.6	-359.9	823.2	698.3	124.87	6.592
17,400.0	9,789.8	16,293.2	8,976.2	60.1	59.1	6.28	-7,363.6	-360.0	823.2	698.1	125.09	6.580
17,480.0	9,789.8	16,373.2	8,976.2	60.7	59.7	6.28	-7,443.6	-360.7	823.1	696.8	126.30	6.517
17,500.0	9,789.9	16,393.2	8,976.2	60.9	59.8	6.28	-7,463.6	-360.9	823.1	696.5	126.60	6.502
17,575.0	9,789.9	16,468.2	8,976.3	61.4	60.4	6.28	-7,538.6	-361.5	823.1	695.4	127.73	6.444
17,600.0	9,789.9	16,493.2	8,976.3	61.6	60.5	6.28	-7,563.6	-361.7	823.1	695.0	128.11	6.425
17,670.0	9,789.9	16,563.2	8,976.3	62.1	61.1	6.28	-7,633.6	-362.3	823.1	694.0	129.16	6.373
17,700.0	9,790.0	16,593.2	8,976.4	62.4	61.3	6.28	-7,663.6	-362.5	823.1	693.5	129.61	6.351
17,765.0	9,790.0	16,658.2	8,976.4	62.8	61.8	6.28	-7,728.6	-363.1	823.1	692.5	130.59	6.303
17,800.0	9,790.0	16,693.2	8,976.4	63.1	62.0	6.28	-7,763.6	-363.3	823.1	692.0	131.12	6.277
17,860.0	9,790.0	16,753.2	8,976.5	63.5	62.5	6.28	-7,823.6	-363.8	823.1	691.1	132.03	6.234
17,900.0	9,790.1	16,793.2	8,976.5	63.8	62.7	6.28	-7,863.6	-364.2	823.1	690.5	132.63	6.206
17,955.0	9,790.1	16,848.2	8,976.5	64.3	63.2	6.28	-7,918.6	-364.6	823.1	689.6	133.47	6.167
18,000.0	9,790.1	16,893.2	8,976.5	64.6	63.5	6.28	-7,963.6	-365.0	823.1	689.0	134.15	6.136
18,050.0	9,790.1	16,943.2	8,976.6	65.0	63.9	6.28	-8,013.6	-365.4	823.1	688.2	134.90	6.101
18,100.0	9,790.2	16,993.2	8,976.6	65.3	64.2	6.28	-8,063.6	-365.8	823.1	687.4	135.66	6.067
18,145.0	9,790.2	17,038.2	8,976.6	65.7	64.6	6.28	-8,108.6	-366.2	823.1	686.8	136.34	6.037
18,200.0	9,790.2	17,093.2	8,976.7	66.1	65.0	6.28	-8,163.6	-366.6	823.1	685.9	137.17	6.000
18,240.0	9,790.2	17,133.2	8,976.7	66.4	65.3	6.28	-8,203.6	-367.0	823.1	685.3	137.78	5.974
18,300.0	9,790.3	17,193.2	8,976.7	66.8	65.7	6.28	-8,263.6	-367.5	823.1	684.4	138.69	5.935
18,335.0	9,790.3	17,228.2	8,976.7	67.1	66.0	6.28	-8,298.6	-367.8	823.1	683.9	139.22	5.912
18,400.0	9,790.3	17,293.2	8,976.8	67.6	66.4	6.28	-8,363.6	-368.3	823.1	682.9	140.21	5.870
18,430.0	9,790.3	17,323.2	8,976.8	67.8	66.7	6.28	-8,393.6	-368.5	823.1	682.4	140.66	5.851
18,500.0	9,790.4	17,393.2	8,976.8	68.3	67.2	6.28	-8,463.6	-369.1	823.1	681.3	141.73	5.807
18,525.0	9,790.4	17,418.2	8,976.9	68.5	67.4	6.28	-8,488.6	-369.3	823.1	681.0	142.11	5.792
18,600.0	9,790.4	17,493.2	8,976.9	69.1	67.9	6.28	-8,563.6	-370.0	823.1	679.8	143.24	5.746
18,620.0	9,790.4	17,513.2	8,976.9	69.2	68.1	6.28	-8,583.6	-370.1	823.1	679.5	143.55	5.734
18,700.0	9,790.5	17,593.2	8,977.0	69.8	68.7	6.28	-8,663.6	-370.8	823.1	678.3	144.76	5.685
18,715.0	9,790.5	17,608.2	8,977.0	69.9	68.8	6.28	-8,678.6	-370.9	823.0	678.1	144.99	5.676
18,800.0	9,790.5	17,693.2	8,977.0	70.6	69.4	6.28	-8,763.6	-371.6	823.0	676.8	146.29	5.626
18,810.0	9,790.5	17,703.2	8,977.0	70.6	69.5	6.28	-8,773.6	-371.7	823.0	676.6	146.44	5.620
18,900.0	9,790.6	17,793.2	8,977.1	71.3	70.1	6.28	-8,863.6	-372.4	823.0	675.2	147.81	5.568
18,905.0	9,790.6	17,798.2	8,977.1	71.3	70.2	6.28	-8,868.6	-372.5	823.0	675.2	147.88	5.565
19,000.0	9,790.6	17,893.2	8,977.1	72.0	70.9	6.28	-8,963.6	-373.3	823.0	673.7	149.33	5.511
19,095.0	9,790.7	17,988.2	8,977.2	72.8	71.6	6.28	-9,058.6	-374.0	823.0	672.2	150.78	5.458
19,100.0	9,790.7	17,993.2	8,977.2	72.8	71.6	6.28	-9,063.6	-374.1	823.0	672.2	150.86	5.456
19,190.0	9,790.7	18,083.2	8,977.3	73.5	72.3	6.28	-9,153.6	-374.8	823.0	670.8	152.23	5.406
19,200.0	9,790.7	18,093.2	8,977.3	73.5	72.4	6.28	-9,163.6	-374.9	823.0	670.6	152.38	5.401
19,285.0	9,790.8	18,178.2	8,977.3	74.2	73.0	6.28	-9,248.6	-375.6	823.0	669.3	153.68	5.355
19,300.0	9,790.8	18,193.2	8,977.3	74.3	73.1	6.28	-9,263.6	-375.7	823.0	669.1	153.91	5.347
19,380.0	9,790.8	18,273.2	8,977.4	74.9	73.7	6.28	-9,343.6	-376.4	823.0	667.9	155.13	5.305
19,400.0	9,790.8	18,293.2	8,977.4	75.0	73.9	6.28	-9,363.6	-376.6	823.0	667.6	155.43	5.295
19,475.0	9,790.9	18,368.2	8,977.4	75.6	74.4	6.28	-9,438.6	-377.2	823.0	666.4	156.58	5.256
19,500.0	9,790.9	18,393.2	8,977.4	75.8	74.6	6.28	-9,463.6	-377.4	823.0	666.0	156.96	5.243

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error:		3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,570.0	9,790.9	18,463.2	8,977.5	76.3	75.1	6.28	-9,533.6	-378.0	823.0	665.0	158.03	5.208		
19,600.0	9,791.0	18,493.2	8,977.5	76.5	75.4	6.28	-9,563.6	-378.2	823.0	664.5	158.49	5.193		
19,665.0	9,791.0	18,558.2	8,977.5	77.0	75.8	6.28	-9,628.6	-378.8	823.0	663.5	159.48	5.160		
19,700.0	9,791.0	18,593.2	8,977.6	77.3	76.1	6.28	-9,663.6	-379.0	823.0	663.0	160.02	5.143		
19,760.0	9,791.0	18,653.2	8,977.6	77.7	76.5	6.28	-9,723.6	-379.5	823.0	662.0	160.94	5.114		
19,800.0	9,791.1	18,693.2	8,977.6	78.0	76.8	6.28	-9,763.6	-379.9	823.0	661.4	161.55	5.094		
19,855.0	9,791.1	18,748.2	8,977.7	78.5	77.3	6.28	-9,818.6	-380.3	823.0	660.6	162.39	5.068		
19,900.0	9,791.1	18,793.2	8,977.7	78.8	77.6	6.28	-9,863.6	-380.7	823.0	659.9	163.08	5.046		
19,950.0	9,791.1	18,843.2	8,977.7	79.2	78.0	6.28	-9,913.6	-381.1	823.0	659.1	163.85	5.023		
20,000.0	9,791.2	18,893.2	8,977.7	79.5	78.3	6.28	-9,963.6	-381.5	822.9	658.3	164.61	4.999		
20,045.0	9,791.2	18,938.2	8,977.8	79.9	78.7	6.28	-10,008.5	-381.9	822.9	657.6	165.30	4.978		
20,100.0	9,791.2	18,993.2	8,977.8	80.3	79.1	6.28	-10,063.5	-382.3	822.9	656.8	166.14	4.953		
20,140.0	9,791.2	19,033.2	8,977.8	80.6	79.4	6.28	-10,103.5	-382.7	822.9	656.2	166.76	4.935		
20,200.0	9,791.3	19,093.2	8,977.9	81.0	79.8	6.28	-10,163.5	-383.2	822.9	655.3	167.68	4.908		
20,235.0	9,791.3	19,128.2	8,977.9	81.3	80.1	6.28	-10,198.5	-383.5	822.9	654.7	168.21	4.892		
20,300.0	9,791.3	19,193.2	8,977.9	81.8	80.6	6.28	-10,263.5	-384.0	822.9	653.7	169.21	4.863		
20,330.0	9,791.3	19,223.2	8,977.9	82.0	80.8	6.28	-10,293.5	-384.2	822.9	653.3	169.67	4.850		
20,400.0	9,791.4	19,293.2	8,978.0	82.6	81.3	6.28	-10,363.5	-384.8	822.9	652.2	170.74	4.820		
20,425.0	9,791.4	19,318.2	8,978.0	82.7	81.5	6.28	-10,388.5	-385.0	822.9	651.8	171.13	4.809		
20,500.0	9,791.4	19,393.2	8,978.1	83.3	82.1	6.28	-10,463.5	-385.6	822.9	650.6	172.28	4.777		
20,520.0	9,791.4	19,413.2	8,978.1	83.5	82.2	6.28	-10,483.5	-385.8	822.9	650.3	172.59	4.768		
20,600.0	9,791.5	19,493.2	8,978.1	84.1	82.8	6.28	-10,563.5	-386.5	822.9	649.1	173.81	4.734		
20,615.0	9,791.5	19,508.2	8,978.1	84.2	82.9	6.28	-10,578.5	-386.6	822.9	648.9	174.04	4.728		
20,700.0	9,791.5	19,593.2	8,978.2	84.8	83.6	6.28	-10,663.5	-387.3	822.9	647.5	175.35	4.693		
20,710.0	9,791.5	19,603.2	8,978.2	84.9	83.6	6.28	-10,673.5	-387.4	822.9	647.4	175.50	4.689		
20,800.0	9,791.6	19,693.2	8,978.2	85.6	84.3	6.28	-10,763.5	-388.1	822.9	646.0	176.89	4.652		
20,805.0	9,791.6	19,698.2	8,978.2	85.6	84.4	6.28	-10,768.5	-388.2	822.9	645.9	176.96	4.650		
20,900.0	9,791.6	19,793.2	8,978.3	86.3	85.1	6.28	-10,863.5	-389.0	822.9	644.5	178.42	4.612		
20,995.0	9,791.7	19,888.2	8,978.3	87.0	85.8	6.28	-10,958.5	-389.7	822.9	643.0	179.88	4.574		
21,000.0	9,791.7	19,893.2	8,978.4	87.1	85.8	6.28	-10,963.5	-389.8	822.9	642.9	179.96	4.572		
21,090.0	9,791.7	19,983.2	8,978.4	87.7	86.5	6.28	-11,053.5	-390.5	822.9	641.5	181.35	4.538		
21,100.0	9,791.7	19,993.2	8,978.4	87.8	86.6	6.28	-11,063.5	-390.6	822.9	641.4	181.50	4.534		
21,185.0	9,791.8	20,078.2	8,978.5	88.5	87.2	6.28	-11,148.5	-391.3	822.9	640.0	182.81	4.501		
21,200.0	9,791.8	20,093.2	8,978.5	88.6	87.3	6.28	-11,163.5	-391.4	822.9	639.8	183.04	4.496		
21,280.0	9,791.8	20,173.2	8,978.5	89.2	87.9	6.28	-11,243.5	-392.1	822.8	638.6	184.27	4.465		
21,300.0	9,791.8	20,193.2	8,978.5	89.3	88.1	6.28	-11,263.5	-392.3	822.8	638.3	184.58	4.458		
21,375.0	9,791.9	20,268.2	8,978.6	89.9	88.6	6.28	-11,338.5	-392.9	822.8	637.1	185.73	4.430		
21,400.0	9,791.9	20,293.2	8,978.6	90.1	88.8	6.28	-11,363.5	-393.1	822.8	636.7	186.12	4.421		
21,470.0	9,791.9	20,363.2	8,978.6	90.6	89.3	6.28	-11,433.5	-393.7	822.8	635.6	187.20	4.396		
21,500.0	9,791.9	20,393.2	8,978.7	90.8	89.6	6.28	-11,463.5	-393.9	822.8	635.2	187.66	4.385		
21,565.0	9,792.0	20,458.2	8,978.7	91.3	90.1	6.28	-11,528.5	-394.4	822.8	634.2	188.66	4.361		
21,600.0	9,792.0	20,493.2	8,978.7	91.6	90.3	6.28	-11,563.5	-394.7	822.8	633.6	189.20	4.349		
21,660.0	9,792.0	20,553.2	8,978.7	92.0	90.8	6.28	-11,623.5	-395.2	822.8	632.7	190.12	4.328		
21,700.0	9,792.1	20,593.2	8,978.8	92.3	91.1	6.28	-11,663.5	-395.6	822.8	632.1	190.74	4.314		
21,755.0	9,792.1	20,648.2	8,978.8	92.8	91.5	6.28	-11,718.5	-396.0	822.8	631.2	191.59	4.295		
21,800.0	9,792.1	20,693.2	8,978.8	93.1	91.8	6.28	-11,763.5	-396.4	822.8	630.5	192.28	4.279		
21,850.0	9,792.1	20,743.2	8,978.9	93.5	92.2	6.28	-11,813.5	-396.8	822.8	629.8	193.05	4.262		
21,900.0	9,792.2	20,793.2	8,978.9	93.9	92.6	6.28	-11,863.5	-397.2	822.8	629.0	193.82	4.245		
21,945.0	9,792.2	20,838.2	8,978.9	94.2	92.9	6.28	-11,908.5	-397.6	822.8	628.3	194.52	4.230		
22,000.0	9,792.2	20,893.2	8,979.0	94.6	93.3	6.28	-11,963.5	-398.0	822.8	627.4	195.37	4.212		
22,040.0	9,792.2	20,933.2	8,979.0	94.9	93.6	6.28	-12,003.5	-398.4	822.8	626.8	195.98	4.198		

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
22,100.0	9,792.3	20,993.2	8,979.0	95.4	94.1	6.28	-12,063.5	-398.9	822.8	625.9	196.91	4.179			
22,135.0	9,792.3	21,028.2	8,979.0	95.6	94.3	6.28	-12,098.5	-399.2	822.8	625.3	197.45	4.167			
22,200.0	9,792.3	21,093.2	8,979.1	96.1	94.8	6.28	-12,163.5	-399.7	822.8	624.3	198.45	4.146			
22,230.0	9,792.3	21,123.2	8,979.1	96.3	95.1	6.28	-12,193.5	-399.9	822.8	623.9	198.91	4.136			
22,300.0	9,792.4	21,193.2	8,979.1	96.9	95.6	6.28	-12,263.5	-400.5	822.8	622.8	199.99	4.114			
22,325.0	9,792.4	21,218.2	8,979.1	97.1	95.8	6.28	-12,288.5	-400.7	822.8	622.4	200.38	4.106			
22,400.0	9,792.4	21,293.2	8,979.2	97.6	96.3	6.28	-12,363.5	-401.3	822.8	621.2	201.54	4.082			
22,420.0	9,792.4	21,313.2	8,979.2	97.8	96.5	6.28	-12,383.5	-401.5	822.8	620.9	201.85	4.076			
22,500.0	9,792.5	21,393.2	8,979.3	98.4	97.1	6.28	-12,463.5	-402.2	822.8	619.7	203.08	4.051			
22,515.0	9,792.5	21,408.2	8,979.3	98.5	97.2	6.28	-12,478.5	-402.3	822.8	619.4	203.31	4.047			
22,600.0	9,792.5	21,493.2	8,979.3	99.1	97.8	6.28	-12,563.5	-403.0	822.7	618.1	204.63	4.021			
22,610.0	9,792.5	21,503.2	8,979.3	99.2	97.9	6.28	-12,573.5	-403.1	822.7	618.0	204.78	4.018			
22,700.0	9,792.6	21,593.2	8,979.4	99.9	98.6	6.28	-12,663.5	-403.8	822.7	616.6	206.17	3.991			
22,705.0	9,792.6	21,598.2	8,979.4	99.9	98.6	6.28	-12,668.5	-403.9	822.7	616.5	206.25	3.989			
22,800.0	9,792.6	21,693.2	8,979.4	100.7	99.4	6.28	-12,763.5	-404.7	822.7	615.0	207.72	3.961			
22,895.0	9,792.7	21,788.2	8,979.5	101.4	100.1	6.28	-12,858.5	-405.4	822.7	613.5	209.19	3.933			
22,900.0	9,792.7	21,793.2	8,979.5	101.4	100.1	6.28	-12,863.5	-405.5	822.7	613.5	209.26	3.932			
22,990.0	9,792.7	21,883.2	8,979.5	102.1	100.8	6.28	-12,953.4	-406.2	822.7	612.1	210.66	3.905			
23,000.0	9,792.7	21,893.2	8,979.6	102.2	100.9	6.28	-12,963.4	-406.3	822.7	611.9	210.81	3.903			
23,085.0	9,792.8	21,978.2	8,979.6	102.8	101.5	6.28	-13,048.4	-407.0	822.7	610.6	212.12	3.878			
23,100.0	9,792.8	21,993.2	8,979.6	102.9	101.6	6.28	-13,063.4	-407.1	822.7	610.4	212.36	3.874			
23,180.0	9,792.8	22,073.2	8,979.7	103.5	102.2	6.28	-13,143.4	-407.8	822.7	609.1	213.59	3.852			
23,200.0	9,792.8	22,093.2	8,979.7	103.7	102.4	6.28	-13,163.4	-408.0	822.7	608.8	213.90	3.846			
23,275.0	9,792.9	22,168.2	8,979.7	104.2	102.9	6.28	-13,238.4	-408.6	822.7	607.6	215.06	3.825			
23,300.0	9,792.9	22,193.2	8,979.7	104.4	103.1	6.28	-13,263.4	-408.8	822.7	607.2	215.45	3.818			
23,370.0	9,792.9	22,263.2	8,979.8	105.0	103.7	6.28	-13,333.4	-409.4	822.7	606.2	216.53	3.799			
23,400.0	9,792.9	22,293.2	8,979.8	105.2	103.9	6.28	-13,363.4	-409.6	822.7	605.7	217.00	3.791			
23,465.0	9,793.0	22,358.2	8,979.8	105.7	104.4	6.28	-13,428.4	-410.1	822.7	604.7	218.00	3.774			
23,500.0	9,793.0	22,393.2	8,979.9	105.9	104.6	6.28	-13,463.4	-410.4	822.7	604.1	218.55	3.764			
23,560.0	9,793.0	22,453.2	8,979.9	106.4	105.1	6.28	-13,523.4	-410.9	822.7	603.2	219.47	3.748			
23,600.0	9,793.0	22,493.2	8,979.9	106.7	105.4	6.28	-13,563.4	-411.3	822.7	602.6	220.09	3.738			
23,655.0	9,793.1	22,548.2	8,979.9	107.1	105.8	6.28	-13,618.4	-411.7	822.7	601.7	220.95	3.723			
23,700.0	9,793.1	22,593.2	8,980.0	107.5	106.1	6.28	-13,663.4	-412.1	822.7	601.0	221.64	3.712			
23,750.0	9,793.1	22,643.2	8,980.0	107.8	106.5	6.28	-13,713.4	-412.5	822.7	600.2	222.42	3.699			
23,800.0	9,793.2	22,693.2	8,980.0	108.2	106.9	6.28	-13,763.4	-412.9	822.7	599.5	223.19	3.686			
23,845.0	9,793.2	22,738.2	8,980.1	108.6	107.2	6.28	-13,808.4	-413.3	822.6	598.8	223.89	3.674			
23,900.0	9,793.2	22,793.2	8,980.1	109.0	107.7	6.28	-13,863.4	-413.7	822.6	597.9	224.74	3.660			
23,940.0	9,793.2	22,833.2	8,980.1	109.3	108.0	6.28	-13,903.4	-414.1	822.6	597.3	225.36	3.650			
24,000.0	9,793.3	22,893.2	8,980.2	109.7	108.4	6.28	-13,963.4	-414.6	822.6	596.3	226.29	3.635			
24,035.0	9,793.3	22,928.2	8,980.2	110.0	108.7	6.28	-13,998.4	-414.9	822.6	595.8	226.83	3.627			
24,100.0	9,793.3	22,993.2	8,980.2	110.5	109.2	6.28	-14,063.4	-415.4	822.6	594.8	227.84	3.611			
24,130.0	9,793.3	23,023.2	8,980.2	110.7	109.4	6.28	-14,093.4	-415.6	822.6	594.3	228.30	3.603			
24,200.0	9,793.4	23,093.2	8,980.3	111.2	109.9	6.28	-14,163.4	-416.2	822.6	593.2	229.39	3.586			
24,225.0	9,793.4	23,118.2	8,980.3	111.4	110.1	6.28	-14,188.4	-416.4	822.6	592.8	229.78	3.580			
24,300.0	9,793.4	23,193.2	8,980.3	112.0	110.7	6.28	-14,263.4	-417.0	822.6	591.7	230.94	3.562			
24,320.0	9,793.4	23,213.2	8,980.3	112.2	110.8	6.28	-14,283.4	-417.2	822.6	591.4	231.25	3.557			
24,400.0	9,793.5	23,293.2	8,980.4	112.8	111.4	6.28	-14,363.4	-417.9	822.6	590.1	232.49	3.538			
24,415.0	9,793.5	23,308.2	8,980.4	112.9	111.5	6.28	-14,378.4	-418.0	822.6	589.9	232.72	3.535			
24,500.0	9,793.5	23,393.2	8,980.5	113.5	112.2	6.28	-14,463.4	-418.7	822.6	588.6	234.04	3.515			
24,510.0	9,793.5	23,403.2	8,980.5	113.6	112.3	6.28	-14,473.4	-418.8	822.6	588.4	234.19	3.512			
24,600.0	9,793.6	23,493.2	8,980.5	114.3	112.9	6.28	-14,563.4	-419.5	822.6	587.0	235.59	3.492			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-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		
24,605.0	9,793.6	23,498.2	8,980.5	114.3	113.0	6.28	-14,568.4	-419.6	822.6	586.9	235.67	3.490		
24,700.0	9,793.6	23,593.2	8,980.6	115.0	113.7	6.28	-14,663.4	-420.3	822.6	585.4	237.14	3.469		
24,795.0	9,793.7	23,688.2	8,980.6	115.8	114.4	6.28	-14,758.4	-421.1	822.6	584.0	238.61	3.447		
24,800.0	9,793.7	23,693.2	8,980.6	115.8	114.5	6.28	-14,763.4	-421.2	822.6	583.9	238.69	3.446		
24,890.0	9,793.7	23,783.2	8,980.7	116.5	115.1	6.28	-14,853.4	-421.9	822.6	582.5	240.09	3.426		
24,900.0	9,793.7	23,793.2	8,980.7	116.6	115.2	6.28	-14,863.4	-422.0	822.6	582.3	240.24	3.424		
24,985.0	9,793.8	23,878.2	8,980.7	117.2	115.9	6.28	-14,948.4	-422.7	822.6	581.0	241.56	3.405		
25,000.0	9,793.8	23,893.2	8,980.8	117.3	116.0	6.28	-14,963.4	-422.8	822.6	580.8	241.79	3.402		
25,080.0	9,793.8	23,973.2	8,980.8	117.9	116.6	6.28	-15,043.4	-423.5	822.6	579.5	243.04	3.384		
25,100.0	9,793.8	23,993.2	8,980.8	118.1	116.7	6.28	-15,063.4	-423.7	822.6	579.2	243.35	3.380		
25,175.0	9,793.9	24,068.2	8,980.9	118.6	117.3	6.28	-15,138.4	-424.3	822.5	578.0	244.51	3.364		
25,200.0	9,793.9	24,093.2	8,980.9	118.8	117.5	6.28	-15,163.4	-424.5	822.5	577.6	244.90	3.359		
25,270.0	9,793.9	24,163.2	8,980.9	119.4	118.0	6.28	-15,233.4	-425.1	822.5	576.6	245.98	3.344		
25,278.2	9,793.9	24,171.3	8,980.9	119.4	118.1	6.28	-15,241.5	-425.1	822.5	576.4	246.11	3.342		
25,300.0	9,793.9	24,193.2	8,980.9	119.6	118.2	6.28	-15,263.4	-425.3	822.5	576.1	246.45	3.338		
25,365.0	9,794.0	24,258.2	8,981.0	120.1	118.7	6.28	-15,328.4	-425.8	822.5	575.1	247.46	3.324		
25,403.7	9,794.0	24,296.9	8,981.0	120.4	119.0	6.28	-15,367.1	-426.2	822.5	574.5	248.06	3.316		
25,408.3	9,794.0	24,298.5	8,981.0	120.4	119.0	6.28	-15,368.7	-426.2	822.5	574.4	248.11	3.315 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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	4.6	4.6	3.0	3.0	179.08	-150.0	2.4	150.0				
95.0	95.0	99.6	99.6	3.0	3.0	179.08	-150.0	2.4	150.0	144.0	6.04	24.845	
100.0	100.0	104.6	104.6	3.0	3.0	179.08	-150.0	2.4	150.0	144.0	6.04	24.819	
190.0	190.0	194.6	194.6	3.1	3.1	179.08	-150.0	2.4	150.0	143.8	6.27	23.941	
200.0	200.0	204.6	204.6	3.1	3.2	179.08	-150.0	2.4	150.0	143.7	6.30	23.819	
285.0	285.0	289.6	289.6	3.3	3.3	179.08	-150.0	2.4	150.0	143.5	6.51	23.052	
300.0	300.0	304.6	304.6	3.3	3.3	179.08	-150.0	2.4	150.0	143.5	6.55	22.909	
380.0	380.0	384.6	384.6	3.4	3.4	179.08	-150.0	2.4	150.0	143.3	6.74	22.242	
400.0	400.0	404.6	404.6	3.4	3.4	179.08	-150.0	2.4	150.0	143.2	6.80	22.072	
475.0	475.0	479.6	479.6	3.5	3.5	179.08	-150.0	2.4	150.0	143.0	6.98	21.494	
500.0	500.0	504.6	504.6	3.5	3.5	179.08	-150.0	2.4	150.0	143.0	7.04	21.299	
570.0	570.0	574.6	574.6	3.6	3.6	179.08	-150.0	2.4	150.0	142.8	7.21	20.798	
600.0	600.0	604.6	604.6	3.6	3.6	179.08	-150.0	2.4	150.0	142.7	7.29	20.583	
665.0	665.0	669.6	669.6	3.7	3.7	179.08	-150.0	2.4	150.0	142.6	7.45	20.149	
700.0	700.0	704.6	704.6	3.8	3.8	179.08	-150.0	2.4	150.0	142.5	7.53	19.917	
760.0	760.0	764.6	764.6	3.8	3.8	179.08	-150.0	2.4	150.0	142.3	7.68	19.543	
800.0	800.0	804.6	804.6	3.9	3.9	179.08	-150.0	2.4	150.0	142.2	7.77	19.296	
855.0	855.0	859.6	859.6	4.0	4.0	179.08	-150.0	2.4	150.0	142.1	7.91	18.975	
900.0	900.0	904.6	904.6	4.0	4.0	179.08	-150.0	2.4	150.0	142.0	8.02	18.715	
950.0	950.0	954.6	954.6	4.1	4.1	179.08	-150.0	2.4	150.0	141.9	8.14	18.441	
1,000.0	1,000.0	1,004.6	1,004.6	4.1	4.1	179.08	-150.0	2.4	150.0	141.8	8.26	18.170	
1,045.0	1,045.0	1,049.6	1,049.6	4.2	4.2	179.08	-150.0	2.4	150.0	141.7	8.36	17.938	
1,100.0	1,100.0	1,104.6	1,104.6	4.2	4.3	179.08	-150.0	2.4	150.0	141.5	8.50	17.658	
1,140.0	1,140.0	1,144.6	1,144.6	4.3	4.3	179.08	-150.0	2.4	150.0	141.4	8.59	17.463	
1,200.0	1,200.0	1,204.6	1,204.6	4.4	4.4	179.08	-150.0	2.4	150.0	141.3	8.73	17.175	
1,235.0	1,235.0	1,239.6	1,239.6	4.4	4.4	179.08	-150.0	2.4	150.0	141.2	8.82	17.014	
1,300.0	1,300.0	1,304.6	1,304.6	4.5	4.5	179.08	-150.0	2.4	150.0	141.0	8.97	16.720	
1,330.0	1,330.0	1,334.6	1,334.6	4.5	4.5	179.08	-150.0	2.4	150.0	141.0	9.04	16.589	
1,400.0	1,400.0	1,404.6	1,404.6	4.6	4.6	179.08	-150.0	2.4	150.0	140.8	9.21	16.290	
1,425.0	1,425.0	1,429.6	1,429.6	4.6	4.6	179.08	-150.0	2.4	150.0	140.8	9.27	16.186	
1,500.0	1,500.0	1,504.7	1,504.7	4.7	4.7	179.08	-150.0	2.4	150.0	140.6	9.45	15.882	
1,503.4	1,503.4	1,508.2	1,508.2	4.7	4.7	-156.46	-150.0	2.4	150.0	140.6	9.46	15.865 CC	
1,520.0	1,520.0	1,525.1	1,525.1	4.8	4.7	-156.43	-150.0	2.3	150.0	140.5	9.50	15.786 ES	
1,600.0	1,600.0	1,606.7	1,606.7	4.9	4.8	-156.03	-149.3	0.6	150.9	141.1	9.75	15.480	
1,615.0	1,615.0	1,622.0	1,622.0	4.9	4.9	-155.90	-149.0	0.0	151.2	141.4	9.81	15.413	
1,700.0	1,699.8	1,708.6	1,708.4	5.2	5.1	-154.87	-147.2	-4.7	153.6	143.5	10.16	15.127	
1,710.0	1,709.8	1,718.8	1,718.6	5.2	5.1	-154.72	-146.9	-5.4	154.0	143.8	10.20	15.103	
1,800.0	1,799.5	1,810.3	1,809.7	5.4	5.3	-153.08	-143.8	-13.2	158.3	147.8	10.56	14.989	
1,805.0	1,804.4	1,815.4	1,814.8	5.5	5.3	-152.98	-143.6	-13.7	158.6	148.0	10.58	14.987	
1,900.0	1,898.7	1,911.7	1,910.3	5.7	5.6	-150.78	-139.1	-25.0	165.2	154.2	10.97	15.060	
1,995.0	1,992.5	2,007.6	2,004.9	6.0	5.9	-148.24	-133.5	-39.3	173.8	162.5	11.35	15.313	
2,000.0	1,997.5	2,012.6	2,009.9	6.1	5.9	-148.10	-133.1	-40.1	174.3	163.0	11.37	15.332	
2,050.0	2,046.6	2,062.8	2,059.2	6.2	6.1	-146.67	-129.7	-48.8	179.8	168.3	11.51	15.621	
2,090.0	2,085.9	2,103.0	2,098.5	6.2	6.3	-145.50	-126.7	-56.4	184.4	172.8	11.62	15.871	
2,100.0	2,095.7	2,113.0	2,108.3	6.3	6.3	-145.19	-125.9	-58.3	185.6	173.9	11.65	15.933	
2,185.0	2,179.1	2,197.9	2,191.0	6.5	6.6	-142.32	-118.8	-76.2	195.3	183.4	11.93	16.366	
2,200.0	2,193.9	2,212.7	2,205.4	6.5	6.6	-141.78	-117.5	-79.6	197.0	185.0	11.98	16.443	
2,280.0	2,272.4	2,291.6	2,281.9	6.8	6.9	-139.06	-110.5	-97.3	206.5	194.3	12.25	16.859	
2,300.0	2,292.0	2,311.3	2,301.1	6.8	7.0	-138.42	-108.7	-101.7	209.0	196.6	12.32	16.966	
2,375.0	2,365.7	2,385.2	2,372.8	7.1	7.2	-136.15	-102.1	-118.4	218.3	205.8	12.58	17.362	
2,400.0	2,390.2	2,409.9	2,396.7	7.2	7.3	-135.43	-99.9	-123.9	221.5	208.9	12.66	17.496	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				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		
2,470.0	2,458.9	2,478.9	2,463.7	7.4	7.5	-133.53	-93.8	-139.4	230.7	217.7	12.91	17.866		
2,500.0	2,488.4	2,508.5	2,492.3	7.5	7.6	-132.77	-91.1	-146.1	234.6	221.6	13.02	18.026		
2,565.0	2,552.2	2,572.5	2,554.5	7.7	7.9	-131.19	-85.4	-160.5	243.4	230.2	13.25	18.365		
2,600.0	2,586.5	2,607.0	2,588.0	7.9	8.0	-130.38	-82.4	-168.3	248.2	234.8	13.38	18.547		
2,660.0	2,645.4	2,666.2	2,645.4	8.1	8.2	-129.08	-77.1	-181.6	256.5	242.9	13.61	18.852		
2,700.0	2,684.7	2,705.6	2,683.6	8.2	8.4	-128.25	-73.6	-190.4	262.1	248.4	13.76	19.054		
2,755.0	2,738.7	2,759.8	2,736.2	8.4	8.6	-127.17	-68.7	-202.6	270.0	256.0	13.97	19.324		
2,800.0	2,782.8	2,804.2	2,779.3	8.6	8.7	-126.33	-64.8	-212.6	276.4	262.3	14.14	19.543		
2,850.0	2,831.9	2,853.5	2,827.1	8.8	8.9	-125.44	-60.4	-223.7	283.6	269.3	14.34	19.779		
2,900.0	2,881.0	2,902.7	2,874.9	9.0	9.1	-124.60	-56.0	-234.8	290.9	276.4	14.54	20.012		
2,945.0	2,925.2	2,947.1	2,918.0	9.1	9.3	-123.88	-52.0	-244.8	297.6	282.8	14.72	20.214		
3,000.0	2,979.2	3,001.3	2,970.6	9.4	9.5	-123.04	-47.2	-257.0	305.7	290.8	14.94	20.458		
3,040.0	3,018.4	3,040.7	3,008.8	9.5	9.7	-122.45	-43.7	-265.8	311.7	296.6	15.11	20.629		
3,100.0	3,077.3	3,099.9	3,066.2	9.7	9.9	-121.62	-38.4	-279.1	320.7	305.3	15.36	20.882		
3,135.0	3,111.7	3,134.4	3,099.7	9.9	10.1	-121.15	-35.3	-286.9	326.0	310.5	15.51	21.024		
3,200.0	3,175.5	3,198.5	3,161.8	10.1	10.3	-120.32	-29.6	-301.3	335.9	320.1	15.78	21.284		
3,230.0	3,205.0	3,228.0	3,190.5	10.3	10.5	-119.96	-27.0	-308.0	340.4	324.5	15.91	21.399		
3,300.0	3,273.7	3,297.0	3,257.5	10.6	10.8	-119.14	-20.8	-323.5	351.2	335.0	16.21	21.663		
3,325.0	3,298.2	3,321.7	3,281.4	10.7	10.9	-118.86	-18.6	-329.0	355.0	338.7	16.32	21.754		
3,400.0	3,371.8	3,395.6	3,353.1	11.0	11.2	-118.06	-12.0	-345.6	366.6	350.0	16.65	22.021		
3,420.0	3,391.5	3,415.3	3,372.3	11.0	11.3	-117.85	-10.3	-350.1	369.7	353.0	16.74	22.090		
3,500.0	3,470.0	3,494.2	3,448.8	11.4	11.6	-117.06	-3.3	-367.8	382.2	365.1	17.09	22.358		
3,515.0	3,484.7	3,509.0	3,463.1	11.4	11.7	-116.92	-1.9	-371.1	384.5	367.4	17.16	22.407		
3,600.0	3,568.2	3,592.7	3,544.4	11.8	12.1	-116.14	5.5	-390.0	397.8	380.3	17.54	22.676		
3,610.0	3,578.0	3,602.6	3,554.0	11.8	12.1	-116.06	6.4	-392.2	399.4	381.8	17.59	22.707		
3,700.0	3,666.3	3,691.3	3,640.1	12.2	12.5	-115.29	14.3	-412.2	413.6	395.6	18.00	22.976		
3,705.0	3,671.2	3,696.2	3,644.8	12.2	12.5	-115.25	14.8	-413.3	414.4	396.4	18.02	22.990		
3,800.0	3,764.5	3,789.9	3,735.7	12.6	12.9	-114.51	23.1	-434.3	429.4	411.0	18.46	23.258		
3,895.0	3,857.7	3,883.5	3,826.6	13.1	13.4	-113.81	31.5	-455.4	444.6	425.7	18.91	23.511		
3,900.0	3,862.6	3,888.5	3,831.3	13.1	13.4	-113.78	31.9	-456.5	445.4	426.4	18.93	23.524		
3,990.0	3,951.0	3,977.2	3,917.4	13.5	13.8	-113.16	39.8	-476.5	459.7	440.4	19.36	23.750		
4,000.0	3,960.8	3,987.0	3,927.0	13.5	13.8	-113.10	40.7	-478.7	461.3	441.9	19.41	23.774		
4,085.0	4,044.2	4,070.8	4,008.3	13.9	14.2	-112.56	48.2	-497.5	475.0	455.2	19.81	23.979		
4,097.4	4,056.4	4,083.0	4,020.1	13.9	14.3	-112.48	49.3	-500.3	477.0	457.1	19.87	24.008		
4,100.0	4,059.0	4,085.6	4,022.6	13.9	14.3	-112.47	49.5	-500.9	477.4	457.5	19.88	24.016		
4,180.0	4,137.7	4,164.5	4,099.1	14.3	14.6	-112.10	56.5	-518.6	489.8	469.6	20.26	24.177		
4,200.0	4,157.5	4,184.2	4,118.3	14.4	14.7	-111.97	58.3	-523.0	492.8	472.5	20.36	24.210		
4,275.0	4,231.7	4,258.1	4,190.0	14.7	15.1	-111.37	64.9	-539.6	503.6	482.9	20.70	24.327		
4,300.0	4,256.5	4,282.7	4,213.8	14.8	15.2	-111.13	67.1	-545.2	507.1	486.3	20.82	24.359		
4,370.0	4,326.1	4,351.5	4,280.6	15.1	15.5	-110.35	73.2	-560.7	516.5	495.3	21.13	24.440		
4,400.0	4,356.0	4,381.0	4,309.2	15.3	15.6	-109.97	75.8	-567.3	520.3	499.1	21.27	24.467		
4,465.0	4,420.8	4,444.7	4,371.1	15.5	15.9	-109.06	81.5	-581.6	528.5	507.0	21.55	24.521		
4,500.0	4,455.7	4,479.0	4,404.3	15.6	16.1	-108.53	84.6	-589.3	532.8	511.1	21.71	24.542		
4,560.0	4,515.7	4,537.6	4,461.2	15.8	16.4	-107.53	89.8	-602.5	540.0	518.0	21.97	24.575		
4,600.0	4,555.6	4,576.5	4,499.0	16.0	16.5	-106.82	93.3	-611.3	544.7	522.6	22.16	24.587		
4,647.4	4,603.0	4,622.5	4,543.6	16.0	16.7	-130.38	97.4	-621.6	550.3	527.9	22.33	24.638		
4,655.0	4,610.6	4,630.0	4,550.8	16.0	16.8	-130.21	98.0	-623.3	551.1	528.8	22.36	24.648		
4,700.0	4,655.6	4,675.6	4,595.1	16.1	17.0	-129.21	102.0	-633.4	556.4	533.9	22.54	24.686		
4,750.0	4,705.6	4,726.8	4,644.9	16.1	17.2	-128.16	106.4	-644.4	562.3	539.5	22.78	24.686		
4,800.0	4,755.6	4,778.2	4,695.0	16.1	17.5	-127.16	110.6	-655.0	568.0	545.0	23.02	24.671		
4,845.0	4,800.6	4,824.6	4,740.4	16.1	17.7	-126.30	114.2	-664.2	573.2	549.9	23.25	24.650		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft		
Reference				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance					
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W		Between	Between	Minimum	Separation		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)		Centres	Ellipses	Separation	Factor		
										(usft)	(usft)	(usft)			
4,900.0	4,855.6	4,881.6	4,796.1	16.2	17.9	-125.32	118.5	-675.1		579.3	555.8	23.53	24.615		
4,940.0	4,895.6	4,923.1	4,836.9	16.2	18.1	-124.64	121.6	-682.7		583.7	560.0	23.74	24.586		
5,000.0	4,955.6	4,985.7	4,898.4	16.2	18.4	-123.69	125.9	-693.6		590.1	566.1	24.05	24.533		
5,035.0	4,990.6	5,022.3	4,934.4	16.2	18.6	-123.17	128.3	-699.7		593.7	569.5	24.23	24.500		
5,100.0	5,055.6	5,090.6	5,001.7	16.3	18.9	-122.26	132.6	-710.5		600.2	575.7	24.57	24.429		
5,130.0	5,085.6	5,122.2	5,032.8	16.3	19.0	-121.86	134.5	-715.2		603.1	578.4	24.72	24.394		
5,200.0	5,155.6	5,196.1	5,105.9	16.3	19.3	-121.01	138.6	-725.7		609.6	584.5	25.08	24.305		
5,225.0	5,180.6	5,222.6	5,132.1	16.4	19.4	-120.73	140.0	-729.2		611.8	586.6	25.21	24.272		
5,300.0	5,255.6	5,302.2	5,211.0	16.4	19.8	-119.94	143.9	-739.2		618.0	592.5	25.58	24.166		
5,320.0	5,275.6	5,323.5	5,232.1	16.4	19.8	-119.74	144.9	-741.7		619.6	593.9	25.67	24.137		
5,400.0	5,355.6	5,408.8	5,316.8	16.5	20.2	-119.03	148.6	-750.9		625.5	599.5	26.05	24.012		
5,415.0	5,370.6	5,424.8	5,332.8	16.5	20.3	-118.91	149.2	-752.5		626.5	600.4	26.12	23.989		
5,500.0	5,455.6	5,515.8	5,423.3	16.5	20.6	-118.28	152.5	-760.8		631.9	605.4	26.50	23.847		
5,510.0	5,465.6	5,526.5	5,434.0	16.5	20.7	-118.21	152.9	-761.7		632.5	605.9	26.54	23.830		
5,600.0	5,555.6	5,623.2	5,530.3	16.6	21.0	-117.68	155.7	-768.9		637.2	610.3	26.92	23.672		
5,605.0	5,560.6	5,628.6	5,535.7	16.6	21.0	-117.65	155.9	-769.3		637.4	610.5	26.94	23.663		
5,700.0	5,655.6	5,730.9	5,637.8	16.6	21.4	-117.22	158.2	-775.2		641.3	614.0	27.30	23.489		
5,795.0	5,750.6	5,833.4	5,740.2	16.7	21.7	-116.92	159.9	-779.4		644.0	616.4	27.63	23.311		
5,800.0	5,755.6	5,838.8	5,745.6	16.7	21.8	-116.91	160.0	-779.6		644.2	616.5	27.64	23.302		
5,890.0	5,845.6	5,936.0	5,842.8	16.7	22.0	-116.74	160.9	-781.9		645.7	617.8	27.91	23.135		
5,900.0	5,855.6	5,946.8	5,853.6	16.8	22.1	-116.73	160.9	-782.1		645.8	617.9	27.94	23.117		
5,985.0	5,940.6	6,038.4	5,945.2	16.8	22.2	-116.68	161.2	-782.7		646.2	618.1	28.11	22.989		
6,000.0	5,955.6	6,053.4	5,960.2	16.8	22.2	-116.68	161.2	-782.7		646.2	618.1	28.13	22.974		
6,080.0	6,035.6	6,133.4	6,040.2	16.9	22.3	-116.68	161.2	-782.7		646.2	618.0	28.23	22.890		
6,100.0	6,055.6	6,153.4	6,060.2	16.9	22.3	-116.68	161.2	-782.7		646.2	618.0	28.26	22.867		
6,175.0	6,130.6	6,228.4	6,135.2	16.9	22.3	-116.68	161.2	-782.7		646.2	617.9	28.37	22.782		
6,200.0	6,155.6	6,253.4	6,160.2	16.9	22.3	-116.68	161.2	-782.7		646.2	617.8	28.40	22.754		
6,270.0	6,225.6	6,323.4	6,230.2	17.0	22.3	-116.68	161.2	-782.7		646.2	617.7	28.50	22.675		
6,300.0	6,255.6	6,353.4	6,260.2	17.0	22.3	-116.68	161.2	-782.7		646.2	617.7	28.54	22.642		
6,365.0	6,320.6	6,418.4	6,325.2	17.0	22.4	-116.68	161.2	-782.7		646.2	617.6	28.63	22.569		
6,400.0	6,355.6	6,453.4	6,360.2	17.0	22.4	-116.68	161.2	-782.7		646.2	617.5	28.68	22.531		
6,460.0	6,415.6	6,513.4	6,420.2	17.1	22.4	-116.68	161.2	-782.7		646.2	617.5	28.77	22.464		
6,500.0	6,455.6	6,553.4	6,460.2	17.1	22.4	-116.68	161.2	-782.7		646.2	617.4	28.82	22.420		
6,555.0	6,510.6	6,608.4	6,515.2	17.1	22.4	-116.68	161.2	-782.7		646.2	617.3	28.90	22.360		
6,600.0	6,555.6	6,653.4	6,560.2	17.2	22.5	-116.68	161.2	-782.7		646.2	617.3	28.96	22.311		
6,650.0	6,605.6	6,703.4	6,610.2	17.2	22.5	-116.68	161.2	-782.7		646.2	617.2	29.03	22.257		
6,700.0	6,655.6	6,753.4	6,660.2	17.2	22.5	-116.68	161.2	-782.7		646.2	617.1	29.11	22.203		
6,745.0	6,700.6	6,798.4	6,705.2	17.3	22.5	-116.68	161.2	-782.7		646.2	617.1	29.17	22.155		
6,800.0	6,755.6	6,853.4	6,760.2	17.3	22.5	-116.68	161.2	-782.7		646.2	617.0	29.25	22.096		
6,840.0	6,795.6	6,893.4	6,800.2	17.3	22.6	-116.68	161.2	-782.7		646.2	616.9	29.30	22.053		
6,900.0	6,855.6	6,953.4	6,860.2	17.4	22.6	-116.68	161.2	-782.7		646.2	616.8	29.39	21.990		
6,935.0	6,890.6	6,988.4	6,895.2	17.4	22.6	-116.68	161.2	-782.7		646.2	616.8	29.44	21.953		
7,000.0	6,955.6	7,053.4	6,960.2	17.4	22.6	-116.68	161.2	-782.7		646.2	616.7	29.53	21.884		
7,030.0	6,985.6	7,083.4	6,990.2	17.4	22.6	-116.68	161.2	-782.7		646.2	616.7	29.57	21.853		
7,100.0	7,055.6	7,153.4	7,060.2	17.5	22.7	-116.68	161.2	-782.7		646.2	616.6	29.67	21.780		
7,125.0	7,080.6	7,178.4	7,085.2	17.5	22.7	-116.68	161.2	-782.7		646.2	616.5	29.71	21.754		
7,200.0	7,155.6	7,253.4	7,160.2	17.5	22.7	-116.68	161.2	-782.7		646.2	616.4	29.81	21.677		
7,220.0	7,175.6	7,273.4	7,180.2	17.6	22.7	-116.68	161.2	-782.7		646.2	616.4	29.84	21.656		
7,300.0	7,255.6	7,353.4	7,260.2	17.6	22.7	-116.68	161.2	-782.7		646.2	616.3	29.95	21.574		
7,315.0	7,270.6	7,368.4	7,275.2	17.6	22.7	-116.68	161.2	-782.7		646.2	616.3	29.97	21.559		
7,400.0	7,355.6	7,453.4	7,360.2	17.7	22.8	-116.68	161.2	-782.7		646.2	616.1	30.10	21.473		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
7,410.0	7,365.6	7,463.4	7,370.2	17.7	22.8	-116.68	161.2	-782.7	646.2	616.1	30.11	21.462	
7,500.0	7,455.6	7,553.4	7,460.2	17.7	22.8	-116.68	161.2	-782.7	646.2	616.0	30.24	21.372	
7,505.0	7,460.6	7,558.4	7,465.2	17.7	22.8	-116.68	161.2	-782.7	646.2	616.0	30.24	21.367	
7,600.0	7,555.6	7,653.4	7,560.2	17.8	22.9	-116.68	161.2	-782.7	646.2	615.8	30.38	21.272	
7,695.0	7,650.6	7,748.4	7,655.2	17.8	22.9	-116.68	161.2	-782.7	646.2	615.7	30.51	21.178	
7,700.0	7,655.6	7,753.4	7,660.2	17.8	22.9	-116.68	161.2	-782.7	646.2	615.7	30.52	21.173	
7,790.0	7,745.6	7,843.4	7,750.2	17.9	22.9	-116.68	161.2	-782.7	646.2	615.6	30.65	21.085	
7,800.0	7,755.6	7,853.4	7,760.2	17.9	22.9	-116.68	161.2	-782.7	646.2	615.6	30.66	21.075	
7,885.0	7,840.6	7,938.4	7,845.2	18.0	23.0	-116.68	161.2	-782.7	646.2	615.4	30.78	20.992	
7,900.0	7,855.6	7,953.4	7,860.2	18.0	23.0	-116.68	161.2	-782.7	646.2	615.4	30.81	20.977	
7,980.0	7,935.6	8,033.4	7,940.2	18.0	23.0	-116.68	161.2	-782.7	646.2	615.3	30.92	20.900	
8,000.0	7,955.6	8,053.4	7,960.2	18.0	23.0	-116.68	161.2	-782.7	646.2	615.3	30.95	20.881	
8,075.0	8,030.6	8,128.4	8,035.2	18.1	23.1	-116.68	161.2	-782.7	646.2	615.2	31.05	20.809	
8,100.0	8,055.6	8,153.4	8,060.2	18.1	23.1	-116.68	161.2	-782.7	646.2	615.1	31.09	20.785	
8,170.0	8,125.6	8,223.4	8,130.2	18.1	23.1	-116.68	161.2	-782.7	646.2	615.0	31.19	20.719	
8,200.0	8,155.6	8,253.4	8,160.2	18.2	23.1	-116.68	161.2	-782.7	646.2	615.0	31.23	20.690	
8,265.0	8,220.6	8,318.4	8,225.2	18.2	23.1	-116.68	161.2	-782.7	646.2	614.9	31.33	20.629	
8,300.0	8,255.6	8,353.4	8,260.2	18.2	23.2	-116.68	161.2	-782.7	646.2	614.8	31.38	20.596	
8,360.0	8,315.6	8,413.4	8,320.2	18.3	23.2	-116.68	161.2	-782.7	646.2	614.8	31.46	20.542	
8,400.0	8,355.6	8,453.4	8,360.2	18.3	23.2	-116.68	161.2	-782.7	646.2	614.7	31.51	20.509	
8,404.2	8,359.9	8,457.7	8,364.5	18.3	23.2	-116.68	161.2	-782.7	646.2	614.7	31.52	20.505	
8,455.0	8,410.6	8,500.0	8,406.8	18.3	23.2	-116.70	161.0	-782.7	646.4	614.8	31.60	20.453	
8,500.0	8,455.6	8,529.5	8,436.2	18.4	23.2	-116.83	159.3	-782.7	647.5	615.8	31.70	20.425	
8,550.0	8,505.6	8,562.1	8,468.6	18.4	23.2	-117.11	155.8	-782.7	650.0	618.3	31.79	20.448	
8,600.0	8,555.6	8,600.0	8,506.0	18.4	23.2	-117.61	149.3	-782.8	654.0	622.1	31.83	20.548	
8,645.0	8,600.6	8,622.5	8,527.9	18.4	23.2	-118.00	144.4	-782.8	658.6	626.7	31.91	20.641	
8,700.0	8,655.6	8,650.0	8,554.5	18.5	23.2	-118.55	137.1	-782.9	666.0	634.0	31.99	20.818	
8,740.0	8,695.6	8,679.9	8,582.9	18.5	23.3	-119.26	127.8	-783.0	672.5	640.5	31.98	21.027	
8,800.0	8,755.6	8,714.2	8,614.8	18.5	23.3	-120.19	115.3	-783.1	684.1	652.1	32.02	21.365	
8,835.0	8,790.6	8,733.5	8,632.4	18.6	23.3	-120.77	107.4	-783.1	691.9	659.9	32.04	21.596	
8,900.0	8,855.6	8,767.7	8,663.0	18.6	23.3	-121.87	92.0	-783.3	708.6	676.5	32.08	22.088	
8,930.0	8,885.6	8,782.8	8,676.1	18.6	23.3	-122.39	84.7	-783.3	717.3	685.2	32.10	22.342	
9,000.0	8,955.6	8,816.3	8,704.6	18.7	23.3	-123.61	67.1	-783.5	739.8	707.6	32.17	22.998	
9,025.0	8,980.6	8,827.7	8,714.1	18.7	23.3	-124.04	60.8	-783.5	748.6	716.5	32.20	23.253	
9,100.0	9,055.6	8,850.0	8,732.3	18.7	23.3	-124.91	47.8	-783.6	777.8	745.4	32.36	24.035	
9,120.0	9,075.6	8,868.2	8,746.7	18.8	23.3	-125.64	36.7	-783.7	786.0	753.7	32.32	24.317	
9,200.0	9,155.6	8,900.0	8,771.0	18.8	23.3	-126.95	16.2	-783.9	822.0	789.5	32.46	25.324	
9,215.0	9,170.6	8,900.0	8,771.0	18.8	23.3	-126.95	16.2	-783.9	829.2	796.7	32.52	25.498	
9,257.4	9,213.0	8,919.6	8,785.4	18.8	23.3	-127.78	2.9	-784.0	850.2	817.6	32.57	26.102	
9,300.0	9,255.6	8,934.5	8,796.1	18.9	23.4	49.26	-7.5	-784.1	871.5	839.0	32.56	26.768	
9,310.0	9,265.6	8,950.0	8,806.9	18.9	23.4	48.27	-18.6	-784.2	876.6	844.1	32.51	26.964	
9,350.0	9,305.2	8,950.0	8,806.9	18.9	23.4	46.68	-18.6	-784.2	895.5	862.8	32.71	27.379	
9,400.0	9,354.2	8,970.5	8,820.7	19.0	23.4	44.25	-33.8	-784.3	918.3	885.4	32.86	27.945	
9,405.0	9,359.0	8,972.3	8,821.9	19.0	23.4	44.03	-35.2	-784.3	920.5	887.6	32.88	27.997	
9,450.0	9,402.0	9,000.0	8,839.5	19.1	23.4	41.90	-56.5	-784.5	939.8	906.8	32.99	28.490	
9,500.0	9,448.5	9,000.0	8,839.5	19.1	23.4	40.50	-56.5	-784.5	959.4	926.1	33.31	28.804	
9,550.0	9,493.1	9,026.6	8,855.6	19.2	23.4	38.77	-77.7	-784.7	977.4	943.9	33.50	29.175	
9,595.0	9,531.4	9,050.0	8,868.8	19.2	23.4	37.46	-97.0	-784.8	992.1	958.4	33.69	29.444	
9,600.0	9,535.6	9,050.0	8,868.8	19.3	23.4	37.37	-97.0	-784.8	993.6	959.9	33.73	29.455	
9,650.0	9,575.6	9,065.0	8,876.9	19.3	23.4	36.29	-109.6	-784.9	1,007.9	973.8	34.03	29.614	
9,690.0	9,605.7	9,080.5	8,884.9	19.4	23.5	35.52	-122.9	-785.0	1,017.9	983.6	34.27	29.703	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,700.0	9,612.9	9,084.4	8,886.8	19.4	23.5	35.35	-126.3	-785.1	1,020.2	985.9	34.33	29.718	
9,750.0	9,647.2	9,100.0	8,894.4	19.4	23.5	34.62	-139.9	-785.2	1,030.5	995.8	34.66	29.727	
9,785.0	9,669.2	9,117.7	8,902.5	19.5	23.5	34.16	-155.6	-785.3	1,036.4	1,001.5	34.87	29.721	
9,800.0	9,678.1	9,123.5	8,905.1	19.5	23.5	34.00	-160.8	-785.4	1,038.6	1,003.6	34.97	29.699	
9,850.0	9,705.5	9,150.0	8,916.2	19.6	23.5	33.56	-184.9	-785.6	1,044.6	1,009.3	35.27	29.616	
9,880.0	9,720.2	9,150.0	8,916.2	19.6	23.5	33.42	-184.9	-785.6	1,047.1	1,011.6	35.56	29.451	
9,900.0	9,729.1	9,150.0	8,916.2	19.6	23.5	33.34	-184.9	-785.6	1,048.6	1,012.8	35.75	29.333	
9,950.0	9,748.9	9,182.6	8,928.2	19.6	23.5	33.21	-215.2	-785.8	1,050.0	1,013.9	36.04	29.134	
9,975.0	9,757.2	9,200.0	8,933.9	19.7	23.6	33.21	-231.6	-785.9	1,050.0	1,013.8	36.18	29.020	
10,000.0	9,764.5	9,200.0	8,933.9	19.7	23.6	33.24	-231.6	-785.9	1,049.4	1,012.9	36.43	28.802	
10,050.0	9,776.0	9,222.1	8,940.5	19.7	23.6	33.44	-252.7	-786.1	1,046.5	1,009.7	36.81	28.431	
10,070.0	9,779.3	9,230.0	8,942.6	19.7	23.6	33.56	-260.3	-786.2	1,044.8	1,007.8	36.97	28.262	
10,100.0	9,783.1	9,250.0	8,947.6	19.7	23.6	33.83	-279.7	-786.3	1,041.6	1,004.5	37.16	28.034	
10,150.0	9,786.0	9,250.0	8,947.6	19.8	23.6	34.23	-279.7	-786.3	1,034.5	996.8	37.68	27.452	
10,157.1	9,786.0	9,250.0	8,947.6	19.8	23.6	34.29	-279.7	-786.3	1,033.4	995.6	37.76	27.371	
10,165.0	9,786.0	9,267.3	8,951.3	19.8	23.6	34.41	-296.6	-786.5	1,031.8	994.1	37.72	27.352	
10,200.0	9,786.0	9,281.1	8,953.9	19.8	23.6	34.49	-310.1	-786.6	1,026.4	988.4	37.98	27.021	
10,260.0	9,786.1	9,300.0	8,957.0	19.8	23.7	34.59	-328.8	-786.8	1,018.6	980.1	38.48	26.470	
10,300.0	9,786.1	9,321.2	8,959.6	19.8	23.7	34.68	-349.8	-786.9	1,014.6	975.8	38.76	26.175	
10,355.0	9,786.1	9,350.0	8,962.0	19.9	23.7	34.75	-378.5	-787.2	1,010.6	971.5	39.16	25.806	
10,400.0	9,786.1	9,361.8	8,962.6	19.9	23.7	34.77	-390.3	-787.3	1,008.6	969.1	39.56	25.497	
10,450.0	9,786.2	9,382.9	8,963.0	19.9	23.8	34.78	-411.4	-787.4	1,007.9	967.9	39.96	25.224	
10,469.6	9,786.2	9,401.1	8,963.0	19.9	23.8	34.78	-429.6	-787.6	1,007.9	967.8	40.04	25.169	
10,500.0	9,786.2	9,431.4	8,963.0	19.9	23.8	34.78	-459.9	-787.8	1,007.8	967.7	40.17	25.089	
10,545.0	9,786.2	9,476.4	8,963.1	20.0	23.9	34.78	-504.9	-788.2	1,007.8	967.5	40.37	24.964	
10,600.0	9,786.2	9,531.4	8,963.1	20.0	24.0	34.79	-559.9	-788.7	1,007.8	967.2	40.63	24.807	
10,640.0	9,786.3	9,571.4	8,963.1	20.0	24.1	34.79	-599.9	-789.0	1,007.8	967.0	40.83	24.684	
10,700.0	9,786.3	9,631.4	8,963.2	20.1	24.2	34.79	-659.9	-789.5	1,007.8	966.7	41.14	24.498	
10,735.0	9,786.3	9,666.4	8,963.2	20.1	24.2	34.79	-694.9	-789.8	1,007.8	966.5	41.33	24.383	
10,800.0	9,786.3	9,731.4	8,963.2	20.2	24.4	34.79	-759.9	-790.3	1,007.8	966.1	41.70	24.168	
10,830.0	9,786.4	9,761.4	8,963.3	20.2	24.4	34.79	-789.9	-790.6	1,007.8	965.9	41.88	24.063	
10,900.0	9,786.4	9,831.4	8,963.3	20.3	24.6	34.79	-859.9	-791.1	1,007.8	965.5	42.31	23.818	
10,925.0	9,786.4	9,856.4	8,963.3	20.3	24.6	34.79	-884.9	-791.4	1,007.8	965.3	42.47	23.727	
11,000.0	9,786.4	9,931.4	8,963.4	20.4	24.8	34.79	-959.9	-792.0	1,007.8	964.8	42.97	23.453	
11,020.0	9,786.5	9,951.4	8,963.4	20.4	24.8	34.79	-979.9	-792.1	1,007.8	964.7	43.11	23.377	
11,100.0	9,786.5	10,031.4	8,963.4	20.5	25.0	34.79	-1,059.9	-792.8	1,007.8	964.1	43.67	23.075	
11,115.0	9,786.5	10,046.4	8,963.4	20.6	25.1	34.79	-1,074.9	-792.9	1,007.8	964.0	43.79	23.016	
11,200.0	9,786.5	10,131.4	8,963.5	20.7	25.3	34.79	-1,159.9	-793.6	1,007.8	963.3	44.42	22.687	
11,210.0	9,786.6	10,141.4	8,963.5	20.7	25.3	34.79	-1,169.9	-793.7	1,007.8	963.3	44.50	22.647	
11,300.0	9,786.6	10,231.4	8,963.6	20.9	25.6	34.79	-1,259.9	-794.5	1,007.8	962.5	45.21	22.291	
11,305.0	9,786.6	10,236.4	8,963.6	20.9	25.6	34.79	-1,264.9	-794.5	1,007.7	962.5	45.25	22.271	
11,400.0	9,786.7	10,331.4	8,963.6	21.1	25.9	34.79	-1,359.9	-795.3	1,007.7	961.7	46.04	21.891	
11,495.0	9,786.7	10,426.4	8,963.7	21.4	26.2	34.79	-1,454.9	-796.1	1,007.7	960.9	46.85	21.507	
11,500.0	9,786.7	10,431.4	8,963.7	21.4	26.2	34.79	-1,459.9	-796.1	1,007.7	960.8	46.90	21.487	
11,590.0	9,786.8	10,521.4	8,963.8	21.6	26.5	34.79	-1,549.9	-796.8	1,007.7	960.0	47.71	21.124	
11,600.0	9,786.8	10,531.4	8,963.8	21.7	26.5	34.79	-1,559.9	-796.9	1,007.7	959.9	47.80	21.083	
11,685.0	9,786.8	10,616.4	8,963.8	21.9	26.8	34.79	-1,644.9	-797.6	1,007.7	959.1	48.59	20.741	
11,700.0	9,786.8	10,631.4	8,963.8	22.0	26.9	34.79	-1,659.9	-797.8	1,007.7	959.0	48.73	20.680	
11,780.0	9,786.9	10,711.4	8,963.9	22.3	27.2	34.79	-1,739.9	-798.4	1,007.7	958.2	49.49	20.360	
11,800.0	9,786.9	10,731.4	8,963.9	22.4	27.3	34.79	-1,759.9	-798.6	1,007.7	958.0	49.69	20.280	
11,875.0	9,786.9	10,806.4	8,964.0	22.7	27.5	34.79	-1,834.9	-799.2	1,007.7	957.2	50.43	19.982	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
11,900.0	9,786.9	10,831.4	8,964.0	22.8	27.6	34.79	-1,859.9	-799.4	1,007.7	957.0	50.68	19.883	
11,970.0	9,787.0	10,901.4	8,964.0	23.1	27.9	34.79	-1,929.9	-800.0	1,007.7	956.3	51.39	19.608	
12,000.0	9,787.0	10,931.4	8,964.0	23.2	28.0	34.79	-1,959.9	-800.2	1,007.7	956.0	51.70	19.491	
12,065.0	9,787.0	10,996.4	8,964.1	23.5	28.3	34.79	-2,024.9	-800.8	1,007.7	955.3	52.38	19.239	
12,100.0	9,787.0	11,031.4	8,964.1	23.7	28.4	34.79	-2,059.9	-801.1	1,007.7	954.9	52.74	19.105	
12,160.0	9,787.0	11,091.4	8,964.1	24.0	28.7	34.79	-2,119.9	-801.6	1,007.6	954.3	53.38	18.876	
12,200.0	9,787.1	11,131.4	8,964.2	24.2	28.9	34.79	-2,159.9	-801.9	1,007.6	953.8	53.81	18.725	
12,255.0	9,787.1	11,186.4	8,964.2	24.5	29.1	34.79	-2,214.9	-802.3	1,007.6	953.2	54.41	18.519	
12,300.0	9,787.1	11,231.4	8,964.2	24.7	29.3	34.79	-2,259.9	-802.7	1,007.6	952.7	54.91	18.352	
12,350.0	9,787.1	11,281.4	8,964.3	25.0	29.5	34.79	-2,309.9	-803.1	1,007.6	952.2	55.46	18.168	
12,400.0	9,787.2	11,331.4	8,964.3	25.3	29.8	34.79	-2,359.9	-803.5	1,007.6	951.6	56.02	17.987	
12,445.0	9,787.2	11,376.4	8,964.3	25.6	30.0	34.79	-2,404.9	-803.9	1,007.6	951.1	56.53	17.825	
12,500.0	9,787.2	11,431.4	8,964.4	25.9	30.2	34.79	-2,459.9	-804.4	1,007.6	950.4	57.15	17.630	
12,540.0	9,787.2	11,471.4	8,964.4	26.1	30.4	34.79	-2,499.9	-804.7	1,007.6	950.0	57.61	17.489	
12,600.0	9,787.3	11,531.4	8,964.4	26.5	30.7	34.79	-2,559.9	-805.2	1,007.6	949.3	58.31	17.280	
12,635.0	9,787.3	11,566.4	8,964.5	26.7	30.9	34.79	-2,594.9	-805.5	1,007.6	948.9	58.72	17.160	
12,700.0	9,787.3	11,631.4	8,964.5	27.0	31.2	34.79	-2,659.9	-806.0	1,007.6	948.1	59.48	16.940	
12,730.0	9,787.3	11,661.4	8,964.5	27.2	31.3	34.79	-2,689.9	-806.3	1,007.6	947.7	59.84	16.839	
12,800.0	9,787.4	11,731.4	8,964.6	27.7	31.7	34.79	-2,759.9	-806.9	1,007.6	946.9	60.67	16.607	
12,825.0	9,787.4	11,756.4	8,964.6	27.8	31.8	34.79	-2,784.8	-807.1	1,007.6	946.6	60.97	16.526	
12,900.0	9,787.4	11,831.4	8,964.6	28.3	32.2	34.80	-2,859.8	-807.7	1,007.6	945.7	61.87	16.284	
12,920.0	9,787.4	11,851.4	8,964.7	28.4	32.3	34.80	-2,879.8	-807.8	1,007.5	945.4	62.12	16.220	
13,000.0	9,787.5	11,931.4	8,964.7	28.9	32.7	34.80	-2,959.8	-808.5	1,007.5	944.4	63.10	15.969	
13,015.0	9,787.5	11,946.4	8,964.7	29.0	32.8	34.80	-2,974.8	-808.6	1,007.5	944.3	63.28	15.922	
13,100.0	9,787.5	12,031.4	8,964.8	29.5	33.3	34.80	-3,059.8	-809.3	1,007.5	943.2	64.33	15.662	
13,110.0	9,787.5	12,041.4	8,964.8	29.6	33.3	34.80	-3,069.8	-809.4	1,007.5	943.1	64.45	15.632	
13,200.0	9,787.6	12,131.4	8,964.8	30.2	33.8	34.80	-3,159.8	-810.2	1,007.5	941.9	65.58	15.363	
13,205.0	9,787.6	12,136.4	8,964.8	30.2	33.8	34.80	-3,164.8	-810.2	1,007.5	941.9	65.64	15.349	
13,300.0	9,787.6	12,231.4	8,964.9	30.8	34.3	34.80	-3,259.8	-811.0	1,007.5	940.7	66.84	15.073	
13,395.0	9,787.7	12,326.4	8,965.0	31.5	34.9	34.80	-3,354.8	-811.8	1,007.5	939.4	68.05	14.805	
13,400.0	9,787.7	12,331.4	8,965.0	31.5	34.9	34.80	-3,359.8	-811.8	1,007.5	939.4	68.11	14.791	
13,490.0	9,787.7	12,421.4	8,965.0	32.1	35.4	34.80	-3,449.8	-812.6	1,007.5	938.2	69.27	14.544	
13,500.0	9,787.8	12,431.4	8,965.0	32.2	35.5	34.80	-3,459.8	-812.6	1,007.5	938.1	69.40	14.517	
13,585.0	9,787.8	12,516.4	8,965.1	32.7	36.0	34.80	-3,544.8	-813.3	1,007.5	937.0	70.50	14.290	
13,600.0	9,787.8	12,531.4	8,965.1	32.8	36.0	34.80	-3,559.8	-813.5	1,007.5	936.8	70.69	14.251	
13,680.0	9,787.8	12,611.4	8,965.2	33.4	36.5	34.80	-3,639.8	-814.1	1,007.5	935.7	71.74	14.044	
13,700.0	9,787.9	12,631.4	8,965.2	33.5	36.6	34.80	-3,659.8	-814.3	1,007.5	935.5	72.00	13.992	
13,775.0	9,787.9	12,706.4	8,965.2	34.0	37.1	34.80	-3,734.8	-814.9	1,007.4	934.5	72.99	13.803	
13,800.0	9,787.9	12,731.4	8,965.2	34.2	37.2	34.80	-3,759.8	-815.1	1,007.4	934.1	73.32	13.741	
13,870.0	9,787.9	12,801.4	8,965.3	34.7	37.6	34.80	-3,829.8	-815.7	1,007.4	933.2	74.24	13.570	
13,900.0	9,788.0	12,831.4	8,965.3	34.9	37.8	34.80	-3,859.8	-815.9	1,007.4	932.8	74.64	13.497	
13,965.0	9,788.0	12,896.4	8,965.4	35.3	38.2	34.80	-3,924.8	-816.5	1,007.4	931.9	75.51	13.342	
14,000.0	9,788.0	12,931.4	8,965.4	35.6	38.4	34.80	-3,959.8	-816.8	1,007.4	931.4	75.97	13.260	
14,060.0	9,788.0	12,991.4	8,965.4	36.0	38.8	34.80	-4,019.8	-817.3	1,007.4	930.6	76.78	13.121	
14,100.0	9,788.1	13,031.4	8,965.4	36.3	39.0	34.80	-4,059.8	-817.6	1,007.4	930.1	77.32	13.030	
14,155.0	9,788.1	13,086.4	8,965.5	36.6	39.3	34.80	-4,114.8	-818.1	1,007.4	929.3	78.06	12.906	
14,200.0	9,788.1	13,131.4	8,965.5	37.0	39.6	34.80	-4,159.8	-818.4	1,007.4	928.7	78.67	12.806	
14,250.0	9,788.1	13,181.4	8,965.5	37.3	39.9	34.80	-4,209.8	-818.8	1,007.4	928.0	79.34	12.697	
14,300.0	9,788.2	13,231.4	8,965.6	37.7	40.2	34.80	-4,259.8	-819.3	1,007.4	927.4	80.02	12.589	
14,345.0	9,788.2	13,276.4	8,965.6	38.0	40.5	34.80	-4,304.8	-819.6	1,007.4	926.7	80.64	12.493	
14,400.0	9,788.2	13,331.4	8,965.6	38.4	40.9	34.80	-4,359.8	-820.1	1,007.4	926.0	81.39	12.378	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
14,440.0	9,788.2	13,371.4	8,965.7	38.6	41.1	34.80	-4,399.8	-820.4	1,007.4	925.4	81.93	12.295	
14,500.0	9,788.3	13,431.4	8,965.7	39.1	41.5	34.80	-4,459.8	-820.9	1,007.4	924.6	82.76	12.172	
14,535.0	9,788.3	13,466.4	8,965.7	39.3	41.7	34.80	-4,494.8	-821.2	1,007.3	924.1	83.24	12.102	
14,600.0	9,788.3	13,531.4	8,965.8	39.8	42.1	34.80	-4,559.8	-821.7	1,007.3	923.2	84.13	11.973	
14,630.0	9,788.3	13,561.4	8,965.8	40.0	42.3	34.80	-4,589.8	-822.0	1,007.3	922.8	84.55	11.914	
14,700.0	9,788.4	13,631.4	8,965.8	40.5	42.7	34.80	-4,659.8	-822.6	1,007.3	921.8	85.52	11.779	
14,725.0	9,788.4	13,656.4	8,965.9	40.6	42.9	34.80	-4,684.8	-822.8	1,007.3	921.5	85.86	11.732	
14,800.0	9,788.4	13,731.4	8,965.9	41.2	43.4	34.80	-4,759.8	-823.4	1,007.3	920.4	86.91	11.591	
14,820.0	9,788.4	13,751.4	8,965.9	41.3	43.5	34.80	-4,779.8	-823.6	1,007.3	920.1	87.19	11.554	
14,900.0	9,788.5	13,831.4	8,966.0	41.9	44.0	34.80	-4,859.8	-824.2	1,007.3	919.0	88.30	11.408	
14,915.0	9,788.5	13,846.4	8,966.0	42.0	44.1	34.80	-4,874.8	-824.3	1,007.3	918.8	88.51	11.380	
15,000.0	9,788.5	13,931.4	8,966.0	42.6	44.7	34.80	-4,959.8	-825.0	1,007.3	917.6	89.70	11.229	
15,010.0	9,788.5	13,941.4	8,966.1	42.7	44.7	34.80	-4,969.8	-825.1	1,007.3	917.4	89.84	11.212	
15,100.0	9,788.6	14,031.4	8,966.1	43.3	45.3	34.80	-5,059.8	-825.9	1,007.3	916.2	91.11	11.056	
15,105.0	9,788.6	14,036.4	8,966.1	43.4	45.4	34.80	-5,064.8	-825.9	1,007.3	916.1	91.18	11.048	
15,200.0	9,788.6	14,131.4	8,966.2	44.0	46.0	34.80	-5,159.8	-826.7	1,007.3	914.8	92.52	10.887	
15,295.0	9,788.7	14,226.4	8,966.2	44.7	46.6	34.81	-5,254.8	-827.5	1,007.3	913.4	93.86	10.732	
15,300.0	9,788.7	14,231.4	8,966.2	44.8	46.7	34.81	-5,259.8	-827.5	1,007.3	913.3	93.93	10.723	
15,390.0	9,788.7	14,321.4	8,966.3	45.4	47.2	34.81	-5,349.8	-828.3	1,007.2	912.0	95.21	10.580	
15,400.0	9,788.7	14,331.4	8,966.3	45.5	47.3	34.81	-5,359.8	-828.4	1,007.2	911.9	95.35	10.564	
15,485.0	9,788.8	14,416.4	8,966.4	46.1	47.9	34.81	-5,444.8	-829.1	1,007.2	910.7	96.56	10.431	
15,500.0	9,788.8	14,431.4	8,966.4	46.2	48.0	34.81	-5,459.8	-829.2	1,007.2	910.5	96.77	10.408	
15,580.0	9,788.8	14,511.4	8,966.4	46.8	48.5	34.81	-5,539.8	-829.8	1,007.2	909.3	97.91	10.287	
15,600.0	9,788.9	14,531.4	8,966.4	46.9	48.6	34.81	-5,559.8	-830.0	1,007.2	909.0	98.20	10.257	
15,675.0	9,788.9	14,606.4	8,966.5	47.5	49.2	34.81	-5,634.8	-830.6	1,007.2	907.9	99.27	10.146	
15,700.0	9,788.9	14,631.4	8,966.5	47.6	49.3	34.81	-5,659.7	-830.8	1,007.2	907.6	99.63	10.110	
15,770.0	9,788.9	14,701.4	8,966.6	48.2	49.8	34.81	-5,729.7	-831.4	1,007.2	906.6	100.63	10.009	
15,800.0	9,789.0	14,731.4	8,966.6	48.4	50.0	34.81	-5,759.7	-831.7	1,007.2	906.1	101.06	9.966	
15,865.0	9,789.0	14,796.4	8,966.6	48.8	50.4	34.81	-5,824.7	-832.2	1,007.2	905.2	102.00	9.875	
15,900.0	9,789.0	14,831.4	8,966.6	49.1	50.7	34.81	-5,859.7	-832.5	1,007.2	904.7	102.50	9.826	
15,960.0	9,789.0	14,891.4	8,966.7	49.5	51.1	34.81	-5,919.7	-833.0	1,007.2	903.8	103.37	9.744	
16,000.0	9,789.1	14,931.4	8,966.7	49.8	51.4	34.81	-5,959.7	-833.3	1,007.2	903.2	103.94	9.690	
16,055.0	9,789.1	14,986.4	8,966.8	50.2	51.7	34.81	-6,014.7	-833.8	1,007.2	902.4	104.74	9.616	
16,100.0	9,789.1	15,031.4	8,966.8	50.6	52.0	34.81	-6,059.7	-834.1	1,007.2	901.8	105.39	9.557	
16,150.0	9,789.1	15,081.4	8,966.8	50.9	52.4	34.81	-6,109.7	-834.6	1,007.1	901.0	106.11	9.492	
16,200.0	9,789.2	15,131.4	8,966.8	51.3	52.7	34.81	-6,159.7	-835.0	1,007.1	900.3	106.83	9.427	
16,245.0	9,789.2	15,176.4	8,966.9	51.6	53.0	34.81	-6,204.7	-835.3	1,007.1	899.7	107.49	9.370	
16,300.0	9,789.2	15,231.4	8,966.9	52.0	53.4	34.81	-6,259.7	-835.8	1,007.1	898.8	108.28	9.301	
16,340.0	9,789.2	15,271.4	8,966.9	52.3	53.7	34.81	-6,299.7	-836.1	1,007.1	898.3	108.87	9.251	
16,400.0	9,789.3	15,331.4	8,967.0	52.8	54.1	34.81	-6,359.7	-836.6	1,007.1	897.4	109.74	9.177	
16,435.0	9,789.3	15,366.4	8,967.0	53.0	54.3	34.81	-6,394.7	-836.9	1,007.1	896.9	110.25	9.135	
16,500.0	9,789.3	15,431.4	8,967.0	53.5	54.8	34.81	-6,459.7	-837.4	1,007.1	895.9	111.19	9.057	
16,530.0	9,789.3	15,461.4	8,967.1	53.7	55.0	34.81	-6,489.7	-837.7	1,007.1	895.5	111.63	9.022	
16,600.0	9,789.4	15,531.4	8,967.1	54.2	55.5	34.81	-6,559.7	-838.3	1,007.1	894.4	112.65	8.940	
16,625.0	9,789.4	15,556.4	8,967.1	54.4	55.7	34.81	-6,584.7	-838.5	1,007.1	894.1	113.02	8.911	
16,700.0	9,789.4	15,631.4	8,967.2	55.0	56.2	34.81	-6,659.7	-839.1	1,007.1	893.0	114.11	8.825	
16,720.0	9,789.4	15,651.4	8,967.2	55.1	56.3	34.81	-6,679.7	-839.3	1,007.1	892.7	114.41	8.803	
16,800.0	9,789.5	15,731.4	8,967.2	55.7	56.9	34.81	-6,759.7	-839.9	1,007.1	891.5	115.58	8.713	
16,815.0	9,789.5	15,746.4	8,967.3	55.8	57.0	34.81	-6,774.7	-840.1	1,007.1	891.3	115.80	8.697	
16,900.0	9,789.5	15,831.4	8,967.3	56.4	57.6	34.81	-6,859.7	-840.8	1,007.1	890.0	117.04	8.604	
16,910.0	9,789.5	15,841.4	8,967.3	56.5	57.6	34.81	-6,869.7	-840.8	1,007.1	889.9	117.19	8.593	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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
17,000.0	9,789.6	15,931.4	8,967.4	57.2	58.3	34.81	-6,959.7	-841.6	1,007.0	888.5	118.51	8.497	
17,005.0	9,789.6	15,936.4	8,967.4	57.2	58.3	34.81	-6,964.7	-841.6	1,007.0	888.5	118.59	8.492	
17,100.0	9,789.6	16,031.4	8,967.4	57.9	59.0	34.81	-7,059.7	-842.4	1,007.0	887.0	119.98	8.393	
17,195.0	9,789.7	16,126.4	8,967.5	58.6	59.6	34.81	-7,154.7	-843.2	1,007.0	885.6	121.38	8.296	
17,200.0	9,789.7	16,131.4	8,967.5	58.6	59.7	34.81	-7,159.7	-843.2	1,007.0	885.6	121.46	8.291	
17,290.0	9,789.7	16,221.4	8,967.6	59.3	60.3	34.81	-7,249.7	-844.0	1,007.0	884.2	122.78	8.202	
17,300.0	9,789.7	16,231.4	8,967.6	59.4	60.4	34.81	-7,259.7	-844.1	1,007.0	884.1	122.93	8.192	
17,385.0	9,789.8	16,316.4	8,967.6	60.0	61.0	34.81	-7,344.7	-844.8	1,007.0	882.8	124.19	8.109	
17,400.0	9,789.8	16,331.4	8,967.7	60.1	61.1	34.81	-7,359.7	-844.9	1,007.0	882.6	124.41	8.094	
17,480.0	9,789.8	16,411.4	8,967.7	60.7	61.7	34.81	-7,439.7	-845.6	1,007.0	881.4	125.59	8.018	
17,500.0	9,789.9	16,431.4	8,967.7	60.9	61.8	34.81	-7,459.7	-845.7	1,007.0	881.1	125.89	7.999	
17,575.0	9,789.9	16,506.4	8,967.8	61.4	62.3	34.82	-7,534.7	-846.3	1,007.0	880.0	127.00	7.929	
17,600.0	9,789.9	16,531.4	8,967.8	61.6	62.5	34.82	-7,559.7	-846.5	1,007.0	879.6	127.37	7.906	
17,670.0	9,789.9	16,601.4	8,967.8	62.1	63.0	34.82	-7,629.7	-847.1	1,007.0	878.6	128.40	7.842	
17,700.0	9,790.0	16,631.4	8,967.9	62.4	63.2	34.82	-7,659.7	-847.4	1,007.0	878.1	128.85	7.815	
17,765.0	9,790.0	16,696.4	8,967.9	62.8	63.7	34.82	-7,724.7	-847.9	1,006.9	877.1	129.81	7.757	
17,800.0	9,790.0	16,731.4	8,967.9	63.1	63.9	34.82	-7,759.7	-848.2	1,006.9	876.6	130.33	7.726	
17,860.0	9,790.0	16,791.4	8,968.0	63.5	64.4	34.82	-7,819.7	-848.7	1,006.9	875.7	131.22	7.674	
17,900.0	9,790.1	16,831.4	8,968.0	63.8	64.6	34.82	-7,859.7	-849.0	1,006.9	875.1	131.82	7.639	
17,955.0	9,790.1	16,886.4	8,968.0	64.3	65.0	34.82	-7,914.7	-849.5	1,006.9	874.3	132.63	7.592	
18,000.0	9,790.1	16,931.4	8,968.1	64.6	65.4	34.82	-7,959.7	-849.9	1,006.9	873.6	133.30	7.554	
18,050.0	9,790.1	16,981.4	8,968.1	65.0	65.7	34.82	-8,009.7	-850.3	1,006.9	872.9	134.05	7.512	
18,100.0	9,790.2	17,031.4	8,968.1	65.3	66.1	34.82	-8,059.7	-850.7	1,006.9	872.1	134.79	7.470	
18,145.0	9,790.2	17,076.4	8,968.1	65.7	66.4	34.82	-8,104.7	-851.1	1,006.9	871.4	135.46	7.433	
18,200.0	9,790.2	17,131.4	8,968.2	66.1	66.8	34.82	-8,159.7	-851.5	1,006.9	870.6	136.28	7.388	
18,240.0	9,790.2	17,171.4	8,968.2	66.4	67.1	34.82	-8,199.7	-851.8	1,006.9	870.0	136.88	7.356	
18,300.0	9,790.3	17,231.4	8,968.3	66.8	67.5	34.82	-8,259.7	-852.3	1,006.9	869.1	137.77	7.308	
18,335.0	9,790.3	17,266.4	8,968.3	67.1	67.8	34.82	-8,294.7	-852.6	1,006.9	868.6	138.30	7.281	
18,400.0	9,790.3	17,331.4	8,968.3	67.6	68.2	34.82	-8,359.7	-853.2	1,006.9	867.6	139.27	7.230	
18,430.0	9,790.3	17,361.4	8,968.3	67.8	68.4	34.82	-8,389.7	-853.4	1,006.9	867.2	139.71	7.207	
18,500.0	9,790.4	17,431.4	8,968.4	68.3	68.9	34.82	-8,459.7	-854.0	1,006.9	866.1	140.76	7.153	
18,525.0	9,790.4	17,456.4	8,968.4	68.5	69.1	34.82	-8,484.7	-854.2	1,006.9	865.7	141.13	7.134	
18,600.0	9,790.4	17,531.4	8,968.5	69.1	69.7	34.82	-8,559.7	-854.8	1,006.8	864.6	142.26	7.078	
18,620.0	9,790.4	17,551.4	8,968.5	69.2	69.8	34.82	-8,579.6	-855.0	1,006.8	864.3	142.55	7.063	
18,700.0	9,790.5	17,631.4	8,968.5	69.8	70.4	34.82	-8,659.6	-855.6	1,006.8	863.1	143.75	7.004	
18,715.0	9,790.5	17,646.4	8,968.5	69.9	70.5	34.82	-8,674.6	-855.8	1,006.8	862.9	143.98	6.993	
18,800.0	9,790.5	17,731.4	8,968.6	70.6	71.1	34.82	-8,759.6	-856.5	1,006.8	861.6	145.25	6.932	
18,810.0	9,790.5	17,741.4	8,968.6	70.6	71.2	34.82	-8,769.6	-856.5	1,006.8	861.4	145.40	6.925	
18,900.0	9,790.6	17,831.4	8,968.7	71.3	71.8	34.82	-8,859.6	-857.3	1,006.8	860.1	146.75	6.861	
18,905.0	9,790.6	17,836.4	8,968.7	71.3	71.9	34.82	-8,864.6	-857.3	1,006.8	860.0	146.82	6.857	
19,000.0	9,790.6	17,931.4	8,968.7	72.0	72.6	34.82	-8,959.6	-858.1	1,006.8	858.5	148.25	6.791	
19,095.0	9,790.7	18,026.4	8,968.8	72.8	73.2	34.82	-9,054.6	-858.9	1,006.8	857.1	149.68	6.726	
19,100.0	9,790.7	18,031.4	8,968.8	72.8	73.3	34.82	-9,059.6	-858.9	1,006.8	857.0	149.75	6.723	
19,190.0	9,790.7	18,121.4	8,968.8	73.5	73.9	34.82	-9,149.6	-859.7	1,006.8	855.7	151.10	6.663	
19,200.0	9,790.7	18,131.4	8,968.9	73.5	74.0	34.82	-9,159.6	-859.8	1,006.8	855.5	151.25	6.656	
19,285.0	9,790.8	18,216.4	8,968.9	74.2	74.6	34.82	-9,244.6	-860.5	1,006.8	854.2	152.53	6.600	
19,300.0	9,790.8	18,231.4	8,968.9	74.3	74.7	34.82	-9,259.6	-860.6	1,006.8	854.0	152.76	6.591	
19,380.0	9,790.8	18,311.4	8,969.0	74.9	75.3	34.82	-9,339.6	-861.3	1,006.7	852.8	153.96	6.539	
19,400.0	9,790.8	18,331.4	8,969.0	75.0	75.5	34.82	-9,359.6	-861.4	1,006.7	852.5	154.26	6.526	
19,475.0	9,790.9	18,406.4	8,969.0	75.6	76.0	34.82	-9,434.6	-862.0	1,006.7	851.3	155.39	6.479	
19,500.0	9,790.9	18,431.4	8,969.1	75.8	76.2	34.82	-9,459.6	-862.3	1,006.7	851.0	155.77	6.463	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
19,570.0	9,790.9	18,501.4	8,969.1	76.3	76.7	34.82	34.82	-9,529.6	-862.8	1,006.7	849.9	156.82	6.420
19,600.0	9,791.0	18,531.4	8,969.1	76.5	76.9	34.82	34.82	-9,559.6	-863.1	1,006.7	849.4	157.27	6.401
19,665.0	9,791.0	18,596.4	8,969.2	77.0	77.4	34.82	34.82	-9,624.6	-863.6	1,006.7	848.5	158.25	6.361
19,700.0	9,791.0	18,631.4	8,969.2	77.3	77.6	34.82	34.82	-9,659.6	-863.9	1,006.7	847.9	158.78	6.340
19,760.0	9,791.0	18,691.4	8,969.2	77.7	78.1	34.82	34.82	-9,719.6	-864.4	1,006.7	847.0	159.68	6.304
19,800.0	9,791.1	18,731.4	8,969.3	78.0	78.4	34.82	34.82	-9,759.6	-864.7	1,006.7	846.4	160.29	6.281
19,855.0	9,791.1	18,786.4	8,969.3	78.5	78.8	34.83	34.83	-9,814.6	-865.2	1,006.7	845.6	161.12	6.248
19,900.0	9,791.1	18,831.4	8,969.3	78.8	79.1	34.83	34.83	-9,859.6	-865.6	1,006.7	844.9	161.80	6.222
19,950.0	9,791.1	18,881.4	8,969.4	79.2	79.5	34.83	34.83	-9,909.6	-866.0	1,006.7	844.1	162.55	6.193
20,000.0	9,791.2	18,931.4	8,969.4	79.5	79.8	34.83	34.83	-9,959.6	-866.4	1,006.7	843.4	163.31	6.164
20,045.0	9,791.2	18,976.4	8,969.4	79.9	80.2	34.83	34.83	-10,004.6	-866.8	1,006.7	842.7	163.99	6.139
20,100.0	9,791.2	19,031.4	8,969.5	80.3	80.6	34.83	34.83	-10,059.6	-867.2	1,006.7	841.8	164.82	6.108
20,140.0	9,791.2	19,071.4	8,969.5	80.6	80.9	34.83	34.83	-10,099.6	-867.5	1,006.7	841.2	165.42	6.085
20,200.0	9,791.3	19,131.4	8,969.5	81.0	81.3	34.83	34.83	-10,159.6	-868.0	1,006.6	840.3	166.33	6.052
20,235.0	9,791.3	19,166.4	8,969.5	81.3	81.6	34.83	34.83	-10,194.6	-868.3	1,006.6	839.8	166.86	6.033
20,300.0	9,791.3	19,231.4	8,969.6	81.8	82.0	34.83	34.83	-10,259.6	-868.9	1,006.6	838.8	167.84	5.998
20,330.0	9,791.3	19,261.4	8,969.6	82.0	82.3	34.83	34.83	-10,289.6	-869.1	1,006.6	838.3	168.30	5.981
20,400.0	9,791.4	19,331.4	8,969.7	82.6	82.8	34.83	34.83	-10,359.6	-869.7	1,006.6	837.3	169.36	5.944
20,425.0	9,791.4	19,356.4	8,969.7	82.7	83.0	34.83	34.83	-10,384.6	-869.9	1,006.6	836.9	169.73	5.931
20,500.0	9,791.4	19,431.4	8,969.7	83.3	83.5	34.83	34.83	-10,459.6	-870.5	1,006.6	835.7	170.87	5.891
20,520.0	9,791.4	19,451.4	8,969.7	83.5	83.7	34.83	34.83	-10,479.6	-870.7	1,006.6	835.4	171.17	5.881
20,600.0	9,791.5	19,531.4	8,969.8	84.1	84.2	34.83	34.83	-10,559.6	-871.3	1,006.6	834.2	172.38	5.839
20,615.0	9,791.5	19,546.4	8,969.8	84.2	84.4	34.83	34.83	-10,574.6	-871.5	1,006.6	834.0	172.61	5.832
20,700.0	9,791.5	19,631.4	8,969.9	84.8	85.0	34.83	34.83	-10,659.6	-872.2	1,006.6	832.7	173.90	5.788
20,710.0	9,791.5	19,641.4	8,969.9	84.9	85.1	34.83	34.83	-10,669.6	-872.3	1,006.6	832.5	174.05	5.783
20,800.0	9,791.6	19,731.4	8,969.9	85.6	85.7	34.83	34.83	-10,759.6	-873.0	1,006.6	831.2	175.42	5.738
20,805.0	9,791.6	19,736.4	8,969.9	85.6	85.7	34.83	34.83	-10,764.6	-873.0	1,006.6	831.1	175.49	5.736
20,900.0	9,791.6	19,831.4	8,970.0	86.3	86.4	34.83	34.83	-10,859.6	-873.8	1,006.6	829.6	176.93	5.689
20,995.0	9,791.7	19,926.4	8,970.1	87.0	87.1	34.83	34.83	-10,954.6	-874.6	1,006.5	828.2	178.37	5.643
21,000.0	9,791.7	19,931.4	8,970.1	87.1	87.2	34.83	34.83	-10,959.6	-874.7	1,006.5	828.1	178.45	5.641
21,090.0	9,791.7	20,021.4	8,970.1	87.7	87.9	34.83	34.83	-11,049.6	-875.4	1,006.5	826.7	179.82	5.598
21,100.0	9,791.7	20,031.4	8,970.1	87.8	87.9	34.83	34.83	-11,059.6	-875.5	1,006.5	826.6	179.97	5.593
21,185.0	9,791.8	20,116.4	8,970.2	88.5	88.6	34.83	34.83	-11,144.6	-876.2	1,006.5	825.3	181.26	5.553
21,200.0	9,791.8	20,131.4	8,970.2	88.6	88.7	34.83	34.83	-11,159.6	-876.3	1,006.5	825.0	181.49	5.546
21,280.0	9,791.8	20,211.4	8,970.2	89.2	89.3	34.83	34.83	-11,239.6	-877.0	1,006.5	823.8	182.70	5.509
21,300.0	9,791.8	20,231.4	8,970.3	89.3	89.4	34.83	34.83	-11,259.6	-877.1	1,006.5	823.5	183.00	5.500
21,375.0	9,791.9	20,306.4	8,970.3	89.9	90.0	34.83	34.83	-11,334.6	-877.8	1,006.5	822.4	184.14	5.466
21,400.0	9,791.9	20,331.4	8,970.3	90.1	90.1	34.83	34.83	-11,359.6	-878.0	1,006.5	822.0	184.52	5.455
21,470.0	9,791.9	20,401.4	8,970.4	90.6	90.7	34.83	34.83	-11,429.6	-878.5	1,006.5	820.9	185.59	5.423
21,500.0	9,791.9	20,431.4	8,970.4	90.8	90.9	34.83	34.83	-11,459.6	-878.8	1,006.5	820.4	186.05	5.410
21,565.0	9,792.0	20,496.4	8,970.4	91.3	91.4	34.83	34.83	-11,524.5	-879.3	1,006.5	819.4	187.03	5.381
21,600.0	9,792.0	20,531.4	8,970.5	91.6	91.6	34.83	34.83	-11,559.5	-879.6	1,006.5	818.9	187.57	5.366
21,660.0	9,792.0	20,591.4	8,970.5	92.0	92.1	34.83	34.83	-11,619.5	-880.1	1,006.5	818.0	188.48	5.340
21,700.0	9,792.1	20,631.4	8,970.5	92.3	92.4	34.83	34.83	-11,659.5	-880.4	1,006.5	817.4	189.09	5.323
21,755.0	9,792.1	20,686.4	8,970.6	92.8	92.8	34.83	34.83	-11,714.5	-880.9	1,006.5	816.5	189.92	5.299
21,800.0	9,792.1	20,731.4	8,970.6	93.1	93.1	34.83	34.83	-11,759.5	-881.3	1,006.5	815.8	190.61	5.280
21,850.0	9,792.1	20,781.4	8,970.6	93.5	93.5	34.83	34.83	-11,809.5	-881.7	1,006.4	815.1	191.37	5.259
21,900.0	9,792.2	20,831.4	8,970.7	93.9	93.8	34.83	34.83	-11,859.5	-882.1	1,006.4	814.3	192.13	5.238
21,945.0	9,792.2	20,876.4	8,970.7	94.2	94.2	34.83	34.83	-11,904.5	-882.5	1,006.4	813.6	192.82	5.220
22,000.0	9,792.2	20,931.4	8,970.7	94.6	94.6	34.83	34.83	-11,959.5	-882.9	1,006.4	812.8	193.66	5.197
22,040.0	9,792.2	20,971.4	8,970.8	94.9	94.9	34.83	34.83	-11,999.5	-883.3	1,006.4	812.2	194.26	5.181

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside	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)		
22,100.0	9,792.3	21,031.4	8,970.8	95.4	95.3	34.83	-12,059.5	-883.8	1,006.4	811.2	195.18	5.156	
22,135.0	9,792.3	21,066.4	8,970.8	95.6	95.6	34.83	-12,094.5	-884.0	1,006.4	810.7	195.71	5.142	
22,200.0	9,792.3	21,131.4	8,970.9	96.1	96.1	34.84	-12,159.5	-884.6	1,006.4	809.7	196.70	5.116	
22,230.0	9,792.3	21,161.4	8,970.9	96.3	96.3	34.84	-12,189.5	-884.8	1,006.4	809.2	197.16	5.104	
22,300.0	9,792.4	21,231.4	8,970.9	96.9	96.8	34.84	-12,259.5	-885.4	1,006.4	808.2	198.23	5.077	
22,325.0	9,792.4	21,256.4	8,970.9	97.1	97.0	34.84	-12,284.5	-885.6	1,006.4	807.8	198.61	5.067	
22,400.0	9,792.4	21,331.4	8,971.0	97.6	97.6	34.84	-12,359.5	-886.2	1,006.4	806.6	199.75	5.038	
22,420.0	9,792.4	21,351.4	8,971.0	97.8	97.7	34.84	-12,379.5	-886.4	1,006.4	806.3	200.06	5.030	
22,500.0	9,792.5	21,431.4	8,971.1	98.4	98.3	34.84	-12,459.5	-887.1	1,006.4	805.1	201.28	5.000	
22,515.0	9,792.5	21,446.4	8,971.1	98.5	98.4	34.84	-12,474.5	-887.2	1,006.4	804.9	201.51	4.994	
22,600.0	9,792.5	21,531.4	8,971.1	99.1	99.0	34.84	-12,559.5	-887.9	1,006.4	803.5	202.80	4.962	
22,610.0	9,792.5	21,541.4	8,971.1	99.2	99.1	34.84	-12,569.5	-888.0	1,006.3	803.4	202.96	4.958	
22,700.0	9,792.6	21,631.4	8,971.2	99.9	99.8	34.84	-12,659.5	-888.7	1,006.3	802.0	204.33	4.925	
22,705.0	9,792.6	21,636.4	8,971.2	99.9	99.8	34.84	-12,664.5	-888.8	1,006.3	801.9	204.41	4.923	
22,800.0	9,792.6	21,731.4	8,971.3	100.7	100.5	34.84	-12,759.5	-889.5	1,006.3	800.5	205.86	4.888	
22,895.0	9,792.7	21,826.4	8,971.3	101.4	101.2	34.84	-12,854.5	-890.3	1,006.3	799.0	207.31	4.854	
22,900.0	9,792.7	21,831.4	8,971.3	101.4	101.3	34.84	-12,859.5	-890.4	1,006.3	798.9	207.38	4.852	
22,990.0	9,792.7	21,921.4	8,971.4	102.1	101.9	34.84	-12,949.5	-891.1	1,006.3	797.5	208.76	4.820	
23,000.0	9,792.7	21,931.4	8,971.4	102.2	102.0	34.84	-12,959.5	-891.2	1,006.3	797.4	208.91	4.817	
23,085.0	9,792.8	22,016.4	8,971.5	102.8	102.6	34.84	-13,044.5	-891.9	1,006.3	796.1	210.21	4.787	
23,100.0	9,792.8	22,031.4	8,971.5	102.9	102.8	34.84	-13,059.5	-892.0	1,006.3	795.8	210.44	4.782	
23,180.0	9,792.8	22,111.4	8,971.5	103.5	103.4	34.84	-13,139.5	-892.7	1,006.3	794.6	211.66	4.754	
23,200.0	9,792.8	22,131.4	8,971.5	103.7	103.5	34.84	-13,159.5	-892.8	1,006.3	794.3	211.97	4.747	
23,275.0	9,792.9	22,206.4	8,971.6	104.2	104.1	34.84	-13,234.5	-893.5	1,006.3	793.2	213.11	4.722	
23,300.0	9,792.9	22,231.4	8,971.6	104.4	104.2	34.84	-13,259.5	-893.7	1,006.3	792.8	213.50	4.713	
23,370.0	9,792.9	22,301.4	8,971.6	105.0	104.8	34.84	-13,329.5	-894.3	1,006.3	791.7	214.57	4.690	
23,400.0	9,792.9	22,331.4	8,971.7	105.2	105.0	34.84	-13,359.5	-894.5	1,006.3	791.2	215.03	4.680	
23,465.0	9,793.0	22,396.4	8,971.7	105.7	105.5	34.84	-13,424.5	-895.0	1,006.2	790.2	216.02	4.658	
23,500.0	9,793.0	22,431.4	8,971.7	105.9	105.7	34.84	-13,459.5	-895.3	1,006.2	789.7	216.56	4.647	
23,560.0	9,793.0	22,491.4	8,971.8	106.4	106.2	34.84	-13,519.5	-895.8	1,006.2	788.8	217.47	4.627	
23,600.0	9,793.0	22,531.4	8,971.8	106.7	106.5	34.84	-13,559.5	-896.2	1,006.2	788.1	218.08	4.614	
23,655.0	9,793.1	22,586.4	8,971.8	107.1	106.9	34.84	-13,614.5	-896.6	1,006.2	787.3	218.93	4.596	
23,700.0	9,793.1	22,631.4	8,971.9	107.5	107.2	34.84	-13,659.5	-897.0	1,006.2	786.6	219.62	4.582	
23,750.0	9,793.1	22,681.4	8,971.9	107.8	107.6	34.84	-13,709.5	-897.4	1,006.2	785.8	220.38	4.566	
23,800.0	9,793.2	22,731.4	8,971.9	108.2	108.0	34.84	-13,759.5	-897.8	1,006.2	785.1	221.15	4.550	
23,845.0	9,793.2	22,776.4	8,972.0	108.6	108.3	34.84	-13,804.5	-898.2	1,006.2	784.4	221.83	4.536	
23,900.0	9,793.2	22,831.4	8,972.0	109.0	108.7	34.84	-13,859.5	-898.6	1,006.2	783.5	222.68	4.519	
23,940.0	9,793.2	22,871.4	8,972.0	109.3	109.0	34.84	-13,899.5	-899.0	1,006.2	782.9	223.29	4.506	
24,000.0	9,793.3	22,931.4	8,972.1	109.7	109.5	34.84	-13,959.5	-899.5	1,006.2	782.0	224.21	4.488	
24,035.0	9,793.3	22,966.4	8,972.1	110.0	109.7	34.84	-13,994.5	-899.8	1,006.2	781.4	224.74	4.477	
24,100.0	9,793.3	23,031.4	8,972.1	110.5	110.2	34.84	-14,059.5	-900.3	1,006.2	780.4	225.74	4.457	
24,130.0	9,793.3	23,061.4	8,972.2	110.7	110.4	34.84	-14,089.5	-900.5	1,006.2	780.0	226.20	4.448	
24,200.0	9,793.4	23,131.4	8,972.2	111.2	111.0	34.84	-14,159.5	-901.1	1,006.2	778.9	227.27	4.427	
24,225.0	9,793.4	23,156.4	8,972.2	111.4	111.2	34.84	-14,184.5	-901.3	1,006.1	778.5	227.65	4.420	
24,300.0	9,793.4	23,231.4	8,972.3	112.0	111.7	34.84	-14,259.5	-901.9	1,006.1	777.3	228.80	4.397	
24,320.0	9,793.4	23,251.4	8,972.3	112.2	111.9	34.84	-14,279.5	-902.1	1,006.1	777.0	229.11	4.392	
24,400.0	9,793.5	23,331.4	8,972.3	112.8	112.5	34.84	-14,359.5	-902.8	1,006.1	775.8	230.34	4.368	
24,415.0	9,793.5	23,346.4	8,972.3	112.9	112.6	34.84	-14,374.4	-902.9	1,006.1	775.6	230.57	4.364	
24,500.0	9,793.5	23,431.4	8,972.4	113.5	113.2	34.85	-14,459.4	-903.6	1,006.1	774.2	231.87	4.339	
24,510.0	9,793.5	23,441.4	8,972.4	113.6	113.3	34.85	-14,469.4	-903.7	1,006.1	774.1	232.02	4.336	
24,600.0	9,793.6	23,531.4	8,972.5	114.3	114.0	34.85	-14,559.4	-904.4	1,006.1	772.7	233.40	4.311	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance				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
24,605.0	9,793.6	23,536.4	8,972.5	114.3	114.0	34.85	-14,564.4	-904.5	1,006.1	772.6	233.48	4.309	
24,700.0	9,793.6	23,631.4	8,972.5	115.0	114.7	34.85	-14,659.4	-905.3	1,006.1	771.2	234.93	4.282	
24,795.0	9,793.7	23,726.4	8,972.6	115.8	115.4	34.85	-14,754.4	-906.0	1,006.1	769.7	236.39	4.256	
24,800.0	9,793.7	23,731.4	8,972.6	115.8	115.5	34.85	-14,759.4	-906.1	1,006.1	769.6	236.47	4.255	
24,890.0	9,793.7	23,821.4	8,972.7	116.5	116.1	34.85	-14,849.4	-906.8	1,006.1	768.2	237.85	4.230	
24,900.0	9,793.7	23,831.4	8,972.7	116.6	116.2	34.85	-14,859.4	-906.9	1,006.1	768.1	238.00	4.227	
24,985.0	9,793.8	23,916.4	8,972.7	117.2	116.8	34.85	-14,944.4	-907.6	1,006.1	766.8	239.31	4.204	
25,000.0	9,793.8	23,931.4	8,972.7	117.3	117.0	34.85	-14,959.4	-907.7	1,006.1	766.5	239.54	4.200	
25,080.0	9,793.8	24,011.4	8,972.8	117.9	117.6	34.85	-15,039.4	-908.4	1,006.0	765.3	240.76	4.179	
25,100.0	9,793.8	24,031.4	8,972.8	118.1	117.7	34.85	-15,059.4	-908.6	1,006.0	765.0	241.07	4.173	
25,175.0	9,793.9	24,106.4	8,972.9	118.6	118.3	34.85	-15,134.4	-909.2	1,006.0	763.8	242.22	4.153	
25,200.0	9,793.9	24,131.4	8,972.9	118.8	118.5	34.85	-15,159.4	-909.4	1,006.0	763.4	242.60	4.147	
25,270.0	9,793.9	24,201.4	8,972.9	119.4	119.0	34.85	-15,229.4	-910.0	1,006.0	762.3	243.68	4.128	
25,278.2	9,793.9	24,209.6	8,972.9	119.4	119.0	34.85	-15,237.6	-910.0	1,006.0	762.2	243.80	4.126	
25,300.0	9,793.9	24,231.4	8,972.9	119.6	119.2	34.85	-15,259.4	-910.2	1,006.0	761.9	244.14	4.121	
25,365.0	9,794.0	24,296.4	8,973.0	120.1	119.7	34.85	-15,324.4	-910.8	1,006.0	760.9	245.14	4.104	
25,391.7	9,794.0	24,323.2	8,973.0	120.3	119.9	34.85	-15,351.2	-911.0	1,006.0	760.5	245.55	4.097	
25,408.3	9,794.0	24,323.6	8,973.0	120.4	119.9	34.85	-15,351.6	-911.0	1,006.1	760.4	245.72	4.095 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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	4.5	4.5	3.0	3.0	-169.61	-150.5	-27.6	153.0					
95.0	95.0	99.5	99.5	3.0	3.0	-169.61	-150.5	-27.6	153.0	147.0	6.04	25.340		
100.0	100.0	104.5	104.5	3.0	3.0	-169.61	-150.5	-27.6	153.0	147.0	6.04	25.314		
190.0	190.0	194.5	194.5	3.1	3.1	-169.61	-150.5	-27.6	153.0	146.7	6.27	24.419		
200.0	200.0	204.5	204.5	3.1	3.2	-169.61	-150.5	-27.6	153.0	146.7	6.30	24.295		
285.0	285.0	289.5	289.5	3.3	3.3	-169.61	-150.5	-27.6	153.0	146.5	6.51	23.514		
300.0	300.0	304.5	304.5	3.3	3.3	-169.61	-150.5	-27.6	153.0	146.5	6.55	23.368		
380.0	380.0	384.5	384.5	3.4	3.4	-169.61	-150.5	-27.6	153.0	146.3	6.74	22.690		
400.0	400.0	404.5	404.5	3.4	3.4	-169.61	-150.5	-27.6	153.0	146.2	6.80	22.517		
475.0	475.0	479.5	479.5	3.5	3.5	-169.61	-150.5	-27.6	153.0	146.0	6.98	21.929		
500.0	500.0	504.5	504.5	3.5	3.5	-169.61	-150.5	-27.6	153.0	146.0	7.04	21.731		
570.0	570.0	574.5	574.5	3.6	3.6	-169.61	-150.5	-27.6	153.0	145.8	7.21	21.221		
600.0	600.0	604.5	604.5	3.6	3.6	-169.61	-150.5	-27.6	153.0	145.7	7.29	21.003		
665.0	665.0	669.5	669.5	3.7	3.7	-169.61	-150.5	-27.6	153.0	145.6	7.44	20.562		
700.0	700.0	704.5	704.5	3.8	3.8	-169.61	-150.5	-27.6	153.0	145.5	7.53	20.326		
760.0	760.0	764.5	764.5	3.8	3.8	-169.61	-150.5	-27.6	153.0	145.3	7.67	19.946		
800.0	800.0	804.5	804.5	3.9	3.9	-169.61	-150.5	-27.6	153.0	145.2	7.77	19.695		
855.0	855.0	859.5	859.5	4.0	4.0	-169.61	-150.5	-27.6	153.0	145.1	7.90	19.369		
900.0	900.0	904.5	904.5	4.0	4.0	-169.61	-150.5	-27.6	153.0	145.0	8.01	19.105		
950.0	950.0	954.5	954.5	4.1	4.1	-169.61	-150.5	-27.6	153.0	144.9	8.13	18.826		
1,000.0	1,000.0	1,004.5	1,004.5	4.1	4.1	-169.61	-150.5	-27.6	153.0	144.8	8.25	18.552		
1,045.0	1,045.0	1,049.5	1,049.5	4.2	4.2	-169.61	-150.5	-27.6	153.0	144.7	8.35	18.316		
1,100.0	1,100.0	1,104.5	1,104.5	4.2	4.3	-169.61	-150.5	-27.6	153.0	144.5	8.49	18.032		
1,140.0	1,140.0	1,144.5	1,144.5	4.3	4.3	-169.61	-150.5	-27.6	153.0	144.4	8.58	17.834		
1,200.0	1,200.0	1,204.5	1,204.5	4.4	4.4	-169.61	-150.5	-27.6	153.0	144.3	8.72	17.542		
1,235.0	1,235.0	1,239.5	1,239.5	4.4	4.4	-169.61	-150.5	-27.6	153.0	144.2	8.80	17.379		
1,300.0	1,300.0	1,304.5	1,304.5	4.5	4.5	-169.61	-150.5	-27.6	153.0	144.1	8.96	17.080		
1,330.0	1,330.0	1,334.5	1,334.5	4.5	4.5	-169.61	-150.5	-27.6	153.0	144.0	9.03	16.947		
1,400.0	1,400.0	1,404.5	1,404.5	4.6	4.6	-169.61	-150.5	-27.6	153.0	143.8	9.19	16.643		
1,425.0	1,425.0	1,429.5	1,429.5	4.6	4.6	-169.61	-150.5	-27.6	153.0	143.8	9.25	16.538		
1,500.0	1,500.0	1,504.5	1,504.5	4.7	4.7	-169.61	-150.5	-27.6	153.0	143.6	9.43	16.230		
1,500.3	1,500.3	1,504.9	1,504.9	4.7	4.7	-145.15	-150.5	-27.6	153.0	143.6	9.43	16.228 CC		
1,520.0	1,520.0	1,524.6	1,524.6	4.8	4.7	-145.13	-150.5	-27.7	153.1	143.6	9.48	16.140 ES		
1,600.0	1,600.0	1,604.8	1,604.8	4.9	4.8	-144.80	-150.0	-29.5	154.3	144.6	9.69	15.924		
1,615.0	1,615.0	1,619.8	1,619.8	4.9	4.9	-144.69	-149.9	-30.0	154.8	145.0	9.75	15.876		
1,700.0	1,699.8	1,704.9	1,704.8	5.2	5.0	-143.89	-148.8	-34.7	158.3	148.3	10.06	15.732		
1,710.0	1,709.8	1,714.9	1,714.7	5.2	5.0	-143.77	-148.6	-35.4	158.9	148.8	10.10	15.729 SF		
1,800.0	1,799.5	1,804.8	1,804.2	5.4	5.3	-142.51	-146.7	-43.3	165.1	154.7	10.44	15.819		
1,805.0	1,804.4	1,809.8	1,809.2	5.5	5.3	-142.43	-146.5	-43.9	165.5	155.1	10.46	15.829		
1,900.0	1,898.7	1,904.2	1,902.9	5.7	5.6	-140.77	-143.7	-55.3	174.7	163.9	10.81	16.158		
1,995.0	1,992.5	1,998.2	1,995.7	6.0	5.9	-138.90	-140.2	-69.6	186.4	175.3	11.17	16.696		
2,000.0	1,997.5	2,003.1	2,000.5	6.1	5.9	-138.80	-140.0	-70.4	187.1	176.0	11.19	16.730		
2,050.0	2,046.6	2,052.2	2,048.8	6.2	6.1	-137.77	-137.9	-79.1	194.5	183.1	11.32	17.176		
2,090.0	2,085.9	2,091.5	2,087.3	6.2	6.2	-136.97	-136.0	-86.7	200.7	189.2	11.43	17.557		
2,100.0	2,095.7	2,101.3	2,096.9	6.3	6.2	-136.76	-135.6	-88.7	202.2	190.8	11.46	17.653		
2,185.0	2,179.1	2,184.3	2,177.8	6.5	6.5	-134.69	-131.2	-106.6	215.8	204.0	11.75	18.367		
2,200.0	2,193.9	2,198.9	2,192.0	6.5	6.6	-134.29	-130.4	-110.0	218.2	206.4	11.80	18.496		
2,280.0	2,272.4	2,277.4	2,268.1	6.8	6.8	-132.21	-125.8	-128.4	231.5	219.4	12.08	19.160		
2,300.0	2,292.0	2,297.0	2,287.2	6.8	6.9	-131.73	-124.7	-133.1	234.8	222.7	12.15	19.324		
2,375.0	2,365.7	2,370.6	2,358.6	7.1	7.1	-130.03	-120.5	-150.3	247.5	235.1	12.43	19.916		
2,400.0	2,390.2	2,395.1	2,382.3	7.2	7.2	-129.51	-119.1	-156.1	251.8	239.3	12.52	20.110		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,470.0	2,458.9	2,463.8	2,449.0	7.4	7.5	-128.12	-115.1	-172.3	263.9	251.1	12.79	20.632		
2,500.0	2,488.4	2,493.2	2,477.5	7.5	7.6	-127.57	-113.4	-179.2	269.1	256.2	12.91	20.851		
2,565.0	2,552.2	2,557.0	2,539.4	7.7	7.8	-126.44	-109.8	-194.2	280.6	267.4	13.17	21.306		
2,600.0	2,586.5	2,591.3	2,572.7	7.9	7.9	-125.86	-107.8	-202.2	286.7	273.4	13.31	21.545		
2,660.0	2,645.4	2,650.2	2,629.8	8.1	8.1	-124.94	-104.4	-216.1	297.4	283.8	13.56	21.938		
2,700.0	2,684.7	2,689.4	2,667.9	8.2	8.3	-124.35	-102.2	-225.3	304.6	290.8	13.72	22.194		
2,755.0	2,738.7	2,743.3	2,720.3	8.4	8.5	-123.60	-99.1	-238.0	314.4	300.5	13.96	22.530		
2,800.0	2,782.8	2,787.5	2,763.1	8.6	8.7	-123.01	-96.5	-248.3	322.5	308.4	14.15	22.798		
2,850.0	2,831.9	2,836.5	2,810.7	8.8	8.9	-122.40	-93.7	-259.9	331.6	317.2	14.37	23.083		
2,900.0	2,881.0	2,885.6	2,858.3	9.0	9.0	-121.81	-90.9	-271.4	340.7	326.1	14.58	23.360		
2,945.0	2,925.2	2,929.7	2,901.1	9.1	9.2	-121.31	-88.4	-281.8	348.9	334.1	14.78	23.599		
3,000.0	2,979.2	2,983.7	2,953.5	9.4	9.4	-120.73	-85.3	-294.4	359.0	343.9	15.03	23.882		
3,040.0	3,018.4	3,022.9	2,991.5	9.5	9.6	-120.33	-83.0	-303.7	366.3	351.1	15.21	24.080		
3,100.0	3,077.3	3,081.8	3,048.7	9.7	9.8	-119.76	-79.6	-317.5	377.4	361.9	15.49	24.367		
3,135.0	3,111.7	3,116.1	3,082.0	9.9	10.0	-119.44	-77.6	-325.6	383.8	368.2	15.65	24.528		
3,200.0	3,175.5	3,179.9	3,143.8	10.1	10.3	-118.88	-74.0	-340.6	395.8	379.9	15.95	24.818		
3,230.0	3,205.0	3,209.3	3,172.4	10.3	10.4	-118.63	-72.3	-347.5	401.4	385.3	16.09	24.946		
3,300.0	3,273.7	3,278.0	3,239.0	10.6	10.7	-118.07	-68.3	-363.6	414.4	398.0	16.42	25.236		
3,325.0	3,298.2	3,302.5	3,262.8	10.7	10.8	-117.88	-66.9	-369.4	419.1	402.5	16.54	25.336		
3,400.0	3,371.8	3,376.1	3,334.2	11.0	11.1	-117.34	-62.7	-386.7	433.1	416.2	16.90	25.625		
3,420.0	3,391.5	3,395.7	3,353.3	11.0	11.2	-117.20	-61.6	-391.3	436.8	419.8	17.00	25.699		
3,500.0	3,470.0	3,474.2	3,429.4	11.4	11.5	-116.66	-57.1	-409.7	451.8	434.4	17.38	25.987		
3,515.0	3,484.7	3,488.9	3,443.7	11.4	11.6	-116.56	-56.2	-413.2	454.6	437.1	17.46	26.039		
3,600.0	3,568.2	3,572.3	3,524.6	11.8	12.0	-116.04	-51.4	-432.8	470.5	452.7	17.87	26.324		
3,610.0	3,578.0	3,582.1	3,534.1	11.8	12.0	-115.98	-50.9	-435.1	472.4	454.5	17.92	26.356		
3,700.0	3,666.3	3,670.4	3,619.8	12.2	12.4	-115.46	-45.8	-455.8	489.3	471.0	18.37	26.638		
3,705.0	3,671.2	3,675.3	3,624.5	12.2	12.4	-115.44	-45.5	-457.0	490.3	471.9	18.39	26.653		
3,800.0	3,764.5	3,768.5	3,715.0	12.6	12.8	-114.93	-40.2	-478.9	508.2	489.3	18.87	26.931		
3,895.0	3,857.7	3,861.7	3,805.4	13.1	13.2	-114.46	-34.8	-500.8	526.1	506.8	19.35	27.192		
3,900.0	3,862.6	3,866.6	3,810.1	13.1	13.3	-114.44	-34.5	-501.9	527.1	507.7	19.37	27.205		
3,990.0	3,951.0	3,954.9	3,895.8	13.5	13.7	-114.02	-29.4	-522.7	544.1	524.3	19.83	27.437		
4,000.0	3,960.8	3,964.7	3,905.3	13.5	13.7	-113.98	-28.9	-525.0	546.0	526.1	19.88	27.462		
4,085.0	4,044.2	4,048.1	3,986.2	13.9	14.1	-113.61	-24.1	-544.6	562.1	541.8	20.32	27.670		
4,097.4	4,056.4	4,060.3	3,998.0	13.9	14.1	-113.56	-23.4	-547.5	564.5	544.1	20.38	27.700		
4,100.0	4,059.0	4,062.8	4,000.5	13.9	14.2	-113.56	-23.2	-548.1	565.0	544.6	20.39	27.708		
4,180.0	4,137.7	4,141.3	4,076.7	14.3	14.5	-113.40	-18.7	-566.5	579.7	558.9	20.80	27.868		
4,200.0	4,157.5	4,161.0	4,095.8	14.4	14.6	-113.33	-17.6	-571.1	583.3	562.3	20.90	27.901		
4,275.0	4,231.7	4,234.6	4,167.2	14.7	14.9	-112.96	-13.4	-588.4	596.1	574.8	21.28	28.013		
4,300.0	4,256.5	4,259.1	4,191.0	14.8	15.1	-112.81	-12.0	-594.2	600.3	578.9	21.41	28.042		
4,370.0	4,326.1	4,327.8	4,257.6	15.1	15.4	-112.28	-8.0	-610.3	611.5	589.7	21.75	28.118		
4,400.0	4,356.0	4,357.2	4,286.1	15.3	15.5	-112.01	-6.3	-617.2	616.1	594.2	21.89	28.141		
4,465.0	4,420.8	4,420.8	4,347.9	15.5	15.8	-111.35	-2.7	-632.2	625.9	603.6	22.20	28.188		
4,500.0	4,455.7	4,455.0	4,381.1	15.6	16.0	-110.96	-0.7	-640.2	630.9	608.6	22.37	28.204		
4,560.0	4,515.7	4,513.5	4,437.9	15.8	16.2	-110.21	2.7	-654.0	639.4	616.8	22.65	28.232		
4,600.0	4,555.6	4,552.5	4,475.6	16.0	16.4	-109.67	4.9	-663.1	644.9	622.1	22.84	28.241		
4,647.4	4,603.0	4,598.5	4,520.3	16.0	16.6	-133.44	7.5	-673.9	651.3	628.3	23.03	28.285		
4,655.0	4,610.6	4,605.9	4,527.5	16.0	16.7	-133.31	8.0	-675.7	652.4	629.3	23.06	28.292		
4,700.0	4,655.6	4,649.6	4,569.8	16.1	16.9	-132.53	10.5	-686.0	658.5	635.2	23.24	28.335		
4,750.0	4,705.6	4,698.1	4,616.9	16.1	17.1	-131.68	13.3	-697.4	665.4	641.9	23.47	28.355		
4,800.0	4,755.6	4,746.6	4,664.0	16.1	17.3	-130.85	16.1	-708.8	672.5	648.8	23.70	28.373		
4,845.0	4,800.6	4,790.2	4,706.4	16.1	17.5	-130.12	18.6	-719.0	679.0	655.1	23.92	28.386		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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						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		
4,900.0	4,855.6	4,843.6	4,758.1	16.2	17.8	-129.24	21.6	-731.6	687.1	662.9	24.19	28.401		
4,940.0	4,895.6	4,882.4	4,795.8	16.2	18.0	-128.61	23.9	-740.7	693.0	668.7	24.39	28.410		
5,000.0	4,955.6	4,940.6	4,852.3	16.2	18.2	-127.69	27.2	-754.4	702.2	677.5	24.71	28.421		
5,035.0	4,990.6	4,974.6	4,885.2	16.2	18.4	-127.16	29.2	-762.3	707.6	682.7	24.89	28.427		
5,100.0	5,055.6	5,037.7	4,946.4	16.3	18.7	-126.20	32.8	-777.2	717.8	692.5	25.24	28.437		
5,130.0	5,085.6	5,066.8	4,974.7	16.3	18.8	-125.77	34.5	-784.0	722.6	697.1	25.41	28.440		
5,200.0	5,155.6	5,134.7	5,040.6	16.3	19.2	-124.78	38.4	-800.0	733.8	708.1	25.80	28.448		
5,225.0	5,180.6	5,159.0	5,064.1	16.4	19.3	-124.44	39.8	-805.7	737.9	712.0	25.94	28.451		
5,300.0	5,255.6	5,231.7	5,134.7	16.4	19.6	-123.42	43.9	-822.8	750.4	724.0	26.37	28.458		
5,320.0	5,275.6	5,251.1	5,153.5	16.4	19.7	-123.16	45.0	-827.3	753.7	727.2	26.48	28.460		
5,400.0	5,355.6	5,328.8	5,228.9	16.5	20.1	-122.12	49.5	-845.6	767.3	740.3	26.95	28.467		
5,415.0	5,370.6	5,343.3	5,243.0	16.5	20.1	-121.92	50.3	-849.0	769.8	742.8	27.04	28.468		
5,500.0	5,455.6	5,425.8	5,323.0	16.5	20.5	-120.87	55.1	-868.4	784.6	757.0	27.55	28.476		
5,510.0	5,465.6	5,435.5	5,332.4	16.5	20.6	-120.74	55.6	-870.7	786.3	758.7	27.61	28.477		
5,600.0	5,555.6	5,522.8	5,417.2	16.6	21.0	-119.67	60.7	-891.2	802.2	774.1	28.16	28.487		
5,605.0	5,560.6	5,527.7	5,421.9	16.6	21.0	-119.61	60.9	-892.3	803.1	774.9	28.19	28.487		
5,700.0	5,655.6	5,619.8	5,511.3	16.6	21.5	-118.52	66.2	-914.0	820.2	791.4	28.78	28.500		
5,795.0	5,750.6	5,712.0	5,600.7	16.7	21.9	-117.48	71.5	-935.7	837.6	808.2	29.37	28.514		
5,800.0	5,755.6	5,716.9	5,605.4	16.7	21.9	-117.43	71.8	-936.8	838.5	809.1	29.41	28.515		
5,890.0	5,845.6	5,804.2	5,690.2	16.7	22.3	-116.48	76.8	-957.3	855.2	825.3	29.97	28.532		
5,900.0	5,855.6	5,813.9	5,699.6	16.8	22.4	-116.37	77.4	-959.6	857.1	827.1	30.04	28.534		
5,985.0	5,940.6	5,896.4	5,779.6	16.8	22.8	-115.51	82.1	-979.0	873.1	842.5	30.58	28.552		
6,000.0	5,955.6	5,910.9	5,793.7	16.8	22.9	-115.37	83.0	-982.4	876.0	845.3	30.68	28.556		
6,080.0	6,035.6	5,988.6	5,869.1	16.9	23.2	-114.59	87.4	-1,000.6	891.2	860.1	31.19	28.576		
6,100.0	6,055.6	6,008.0	5,887.9	16.9	23.3	-114.40	88.5	-1,005.2	895.1	863.8	31.32	28.581		
6,175.0	6,130.6	6,080.7	5,958.5	16.9	23.7	-113.70	92.7	-1,022.3	909.6	877.8	31.80	28.603		
6,200.0	6,155.6	6,105.0	5,982.0	16.9	23.8	-113.47	94.1	-1,028.0	914.5	882.5	31.96	28.610		
6,270.0	6,225.6	6,172.9	6,047.9	17.0	24.1	-112.85	98.0	-1,044.0	928.1	895.7	32.42	28.633		
6,300.0	6,255.6	6,202.0	6,076.2	17.0	24.2	-112.59	99.7	-1,050.8	934.0	901.4	32.61	28.643		
6,365.0	6,320.6	6,265.1	6,137.4	17.0	24.5	-112.03	103.3	-1,065.6	946.9	913.9	33.03	28.666		
6,400.0	6,355.6	6,299.1	6,170.3	17.0	24.7	-111.73	105.3	-1,073.6	953.8	920.6	33.26	28.679		
6,460.0	6,415.6	6,357.3	6,226.8	17.1	25.0	-111.24	108.6	-1,087.3	965.8	932.2	33.65	28.703		
6,500.0	6,455.6	6,396.1	6,264.5	17.1	25.2	-110.92	110.8	-1,096.4	973.8	939.9	33.91	28.719		
6,555.0	6,510.6	6,449.4	6,316.3	17.1	25.4	-110.48	113.9	-1,109.0	984.9	950.6	34.27	28.742		
6,600.0	6,555.6	6,493.1	6,358.6	17.2	25.6	-110.13	116.4	-1,119.2	994.0	959.5	34.56	28.762		
6,650.0	6,605.6	6,541.6	6,405.7	17.2	25.9	-109.75	119.2	-1,130.6	1,004.2	969.3	34.89	28.784		
6,700.0	6,655.6	6,590.1	6,452.8	17.2	26.1	-109.37	122.0	-1,142.0	1,014.4	979.2	35.21	28.808		
6,745.0	6,700.6	6,633.8	6,495.1	17.3	26.3	-109.04	124.5	-1,152.3	1,023.6	988.1	35.51	28.829		
6,800.0	6,755.6	6,687.2	6,546.9	17.3	26.6	-108.65	127.6	-1,164.8	1,034.9	999.0	35.86	28.857		
6,840.0	6,795.6	6,726.0	6,584.6	17.3	26.8	-108.37	129.8	-1,173.9	1,043.2	1,007.0	36.12	28.879		
6,900.0	6,855.6	6,789.5	6,646.2	17.4	27.1	-107.92	133.4	-1,188.8	1,055.6	1,019.0	36.53	28.896		
6,935.0	6,890.6	6,839.5	6,694.9	17.4	27.3	-107.59	136.1	-1,199.9	1,062.4	1,025.6	36.82	28.851		
7,000.0	6,955.6	6,933.2	6,786.6	17.4	27.8	-107.05	140.7	-1,218.4	1,073.8	1,036.4	37.35	28.752		
7,030.0	6,985.6	6,976.9	6,829.6	17.4	28.0	-106.84	142.5	-1,226.0	1,078.4	1,040.9	37.57	28.704		
7,100.0	7,055.6	7,079.7	6,931.2	17.5	28.4	-106.41	146.3	-1,241.4	1,087.8	1,049.8	38.05	28.589		
7,125.0	7,080.6	7,116.7	6,967.8	17.5	28.6	-106.28	147.5	-1,246.1	1,090.6	1,052.4	38.21	28.547		
7,200.0	7,155.6	7,228.3	7,078.8	17.5	29.1	-105.97	150.2	-1,257.5	1,097.4	1,058.8	38.61	28.421		
7,220.0	7,175.6	7,258.2	7,108.6	17.6	29.2	-105.91	150.8	-1,259.8	1,098.8	1,060.1	38.71	28.388		
7,300.0	7,255.6	7,378.2	7,228.5	17.6	29.6	-105.74	152.3	-1,266.1	1,102.6	1,063.6	39.01	28.263		
7,315.0	7,270.6	7,400.7	7,251.0	17.6	29.7	-105.73	152.5	-1,266.7	1,103.0	1,063.9	39.06	28.239		
7,400.0	7,355.6	7,509.9	7,360.1	17.7	29.8	-105.71	152.7	-1,267.6	1,103.5	1,064.4	39.12	28.209		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
7,410.0	7,365.6	7,519.9	7,370.1	17.7	29.8	-105.71	152.7	-1,267.6	1,103.5	1,064.4	39.13	28.201		
7,500.0	7,455.6	7,609.9	7,460.1	17.7	29.8	-105.71	152.7	-1,267.6	1,103.5	1,064.3	39.24	28.124		
7,505.0	7,460.6	7,614.9	7,465.1	17.7	29.8	-105.71	152.7	-1,267.6	1,103.5	1,064.3	39.24	28.119		
7,600.0	7,555.6	7,709.9	7,560.1	17.8	29.9	-105.71	152.7	-1,267.6	1,103.5	1,064.1	39.36	28.038		
7,695.0	7,650.6	7,804.9	7,655.1	17.8	29.9	-105.71	152.7	-1,267.6	1,103.5	1,064.0	39.47	27.958		
7,700.0	7,655.6	7,809.9	7,660.1	17.8	29.9	-105.71	152.7	-1,267.6	1,103.5	1,064.0	39.48	27.953		
7,790.0	7,745.6	7,899.9	7,750.1	17.9	29.9	-105.71	152.7	-1,267.6	1,103.5	1,063.9	39.58	27.877		
7,800.0	7,755.6	7,909.9	7,760.1	17.9	29.9	-105.71	152.7	-1,267.6	1,103.5	1,063.9	39.60	27.869		
7,885.0	7,840.6	7,994.9	7,845.1	18.0	29.9	-105.71	152.7	-1,267.6	1,103.5	1,063.8	39.70	27.798		
7,900.0	7,855.6	8,009.9	7,860.1	18.0	29.9	-105.71	152.7	-1,267.6	1,103.5	1,063.8	39.72	27.785		
7,980.0	7,935.6	8,089.9	7,940.1	18.0	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.7	39.81	27.718		
8,000.0	7,955.6	8,109.9	7,960.1	18.0	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.7	39.84	27.701		
8,075.0	8,030.6	8,184.9	8,035.1	18.1	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.6	39.93	27.639		
8,100.0	8,055.6	8,209.9	8,060.1	18.1	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.5	39.96	27.618		
8,170.0	8,125.6	8,279.9	8,130.1	18.1	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.5	40.04	27.560		
8,200.0	8,155.6	8,309.9	8,160.1	18.2	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.4	40.08	27.535		
8,265.0	8,220.6	8,374.9	8,225.1	18.2	30.0	-105.71	152.7	-1,267.6	1,103.5	1,063.3	40.15	27.482		
8,300.0	8,255.6	8,409.9	8,260.1	18.2	30.1	-105.71	152.7	-1,267.6	1,103.5	1,063.3	40.20	27.453		
8,360.0	8,315.6	8,469.9	8,320.1	18.3	30.1	-105.71	152.7	-1,267.6	1,103.5	1,063.2	40.27	27.404		
8,400.0	8,355.6	8,509.9	8,360.1	18.3	30.1	-105.71	152.7	-1,267.6	1,103.5	1,063.2	40.31	27.373		
8,404.3	8,359.9	8,514.1	8,364.4	18.3	30.1	-105.71	152.7	-1,267.6	1,103.5	1,063.2	40.32	27.370		
8,455.0	8,410.6	8,550.0	8,400.3	18.3	30.1	-105.72	152.3	-1,267.6	1,103.7	1,063.3	40.44	27.294		
8,500.0	8,455.6	8,581.8	8,432.0	18.4	30.1	-105.82	150.3	-1,267.6	1,104.5	1,064.0	40.53	27.253		
8,550.0	8,505.6	8,613.8	8,463.8	18.4	30.1	-106.01	146.5	-1,267.7	1,106.2	1,065.6	40.62	27.230		
8,600.0	8,555.6	8,650.0	8,499.4	18.4	30.1	-106.33	140.1	-1,267.7	1,108.7	1,068.1	40.67	27.259		
8,645.0	8,600.6	8,673.2	8,522.0	18.4	30.1	-106.59	134.8	-1,267.7	1,111.7	1,071.0	40.76	27.275		
8,700.0	8,655.6	8,700.0	8,547.8	18.5	30.1	-106.95	127.6	-1,267.8	1,116.4	1,075.6	40.85	27.327		
8,740.0	8,695.6	8,729.6	8,575.8	18.5	30.1	-107.41	118.2	-1,267.9	1,120.5	1,079.7	40.84	27.435		
8,800.0	8,755.6	8,763.3	8,607.1	18.5	30.1	-108.02	105.8	-1,268.0	1,127.9	1,087.0	40.87	27.595		
8,835.0	8,790.6	8,782.2	8,624.4	18.6	30.1	-108.39	98.0	-1,268.1	1,132.9	1,092.0	40.89	27.709		
8,900.0	8,855.6	8,815.8	8,654.3	18.6	30.1	-109.13	82.8	-1,268.2	1,143.7	1,102.8	40.90	27.961		
8,930.0	8,885.6	8,830.7	8,667.3	18.6	30.1	-109.48	75.5	-1,268.2	1,149.3	1,108.4	40.91	28.095		
9,000.0	8,955.6	8,863.6	8,695.3	18.7	30.1	-110.30	58.2	-1,268.4	1,164.0	1,123.1	40.91	28.454		
9,025.0	8,980.6	8,874.8	8,704.6	18.7	30.1	-110.59	51.9	-1,268.4	1,169.8	1,128.9	40.91	28.597		
9,100.0	9,055.6	8,900.0	8,725.0	18.7	30.2	-111.28	37.2	-1,268.6	1,189.3	1,148.3	40.95	29.043		
9,120.0	9,075.6	8,914.7	8,736.6	18.8	30.2	-111.70	28.2	-1,268.6	1,194.9	1,154.0	40.90	29.215		
9,200.0	9,155.6	8,950.0	8,763.6	18.8	30.2	-112.75	5.4	-1,268.8	1,219.5	1,178.7	40.86	29.849		
9,215.0	9,170.6	8,950.0	8,763.6	18.8	30.2	-112.75	5.4	-1,268.8	1,224.5	1,183.6	40.89	29.946		
9,257.4	9,213.0	8,965.5	8,774.9	18.8	30.2	-113.23	-5.1	-1,268.9	1,239.2	1,198.3	40.87	30.319		
9,300.0	9,255.6	8,980.2	8,785.5	18.9	30.2	64.39	-15.4	-1,269.0	1,254.2	1,213.4	40.83	30.720		
9,310.0	9,265.6	8,983.7	8,787.9	18.9	30.2	63.96	-17.9	-1,269.0	1,257.7	1,216.9	40.83	30.806		
9,350.0	9,305.2	9,000.0	8,799.2	18.9	30.2	62.22	-29.7	-1,269.1	1,271.4	1,230.6	40.82	31.145		
9,400.0	9,354.2	9,015.8	8,809.8	19.0	30.2	60.31	-41.3	-1,269.2	1,287.8	1,247.0	40.87	31.507		
9,405.0	9,359.0	9,017.6	8,811.0	19.0	30.2	60.13	-42.7	-1,269.2	1,289.4	1,248.6	40.88	31.542		
9,450.0	9,402.0	9,034.1	8,821.7	19.1	30.2	58.51	-55.2	-1,269.3	1,303.4	1,262.5	40.94	31.837		
9,500.0	9,448.5	9,050.0	8,831.7	19.1	30.2	56.92	-67.7	-1,269.4	1,317.9	1,276.9	41.05	32.107		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.6	0.6	3.0	3.0	88.85	0.6	30.0	30.0				
95.0	95.0	95.6	95.6	3.0	3.0	88.85	0.6	30.0	30.0	24.0	6.04	4.971	
100.0	100.0	100.6	100.6	3.0	3.0	88.85	0.6	30.0	30.0	24.0	6.04	4.967	
190.0	190.0	190.6	190.6	3.1	3.1	88.85	0.6	30.0	30.0	23.8	6.25	4.799	
200.0	200.0	200.6	200.6	3.1	3.1	88.85	0.6	30.0	30.0	23.7	6.29	4.773	
285.0	285.0	285.6	285.6	3.3	3.3	88.85	0.6	30.0	30.0	23.5	6.48	4.628	
300.0	300.0	300.6	300.6	3.3	3.3	88.85	0.6	30.0	30.0	23.5	6.52	4.600	
380.0	380.0	380.6	380.6	3.4	3.4	88.85	0.6	30.0	30.0	23.3	6.70	4.477	
400.0	400.0	400.6	400.6	3.4	3.4	88.85	0.6	30.0	30.0	23.3	6.75	4.445	
475.0	475.0	475.6	475.6	3.5	3.5	88.85	0.6	30.0	30.0	23.1	6.91	4.340	
500.0	500.0	500.6	500.6	3.5	3.5	88.85	0.6	30.0	30.0	23.0	6.97	4.304	
570.0	570.0	570.6	570.6	3.6	3.6	88.85	0.6	30.0	30.0	22.9	7.12	4.215	
600.0	600.0	600.6	600.6	3.6	3.6	88.85	0.6	30.0	30.0	22.8	7.19	4.176	
665.0	665.0	665.6	665.6	3.7	3.7	88.85	0.6	30.0	30.0	22.7	7.32	4.100	
700.0	700.0	700.6	700.6	3.8	3.8	88.85	0.6	30.0	30.0	22.6	7.39	4.059	
760.0	760.0	760.6	760.6	3.8	3.8	88.85	0.6	30.0	30.0	22.5	7.51	3.994	
800.0	800.0	800.6	800.6	3.9	3.9	88.85	0.6	30.0	30.0	22.4	7.59	3.951	
855.0	855.0	855.6	855.6	4.0	4.0	88.85	0.6	30.0	30.0	22.3	7.70	3.896	
900.0	900.0	900.6	900.6	4.0	4.0	88.85	0.6	30.0	30.0	22.2	7.79	3.851	
950.0	950.0	950.6	950.6	4.1	4.1	88.85	0.6	30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	1,000.6	1,000.6	4.1	4.1	88.85	0.6	30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,045.6	1,045.6	4.2	4.2	88.85	0.6	30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,100.6	1,100.6	4.2	4.2	88.85	0.6	30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,140.6	1,140.6	4.3	4.3	88.85	0.6	30.0	30.0	21.8	8.24	3.640	
1,200.0	1,200.0	1,200.6	1,200.6	4.4	4.4	88.85	0.6	30.0	30.0	21.7	8.35	3.592	
1,235.0	1,235.0	1,235.6	1,235.6	4.4	4.4	88.85	0.6	30.0	30.0	21.6	8.42	3.566	
1,300.0	1,300.0	1,300.6	1,300.6	4.5	4.5	88.85	0.6	30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,330.6	1,330.6	4.5	4.5	88.85	0.6	30.0	30.0	21.4	8.58	3.495	
1,400.0	1,400.0	1,400.6	1,400.6	4.6	4.6	88.85	0.6	30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,425.6	1,425.6	4.6	4.6	88.85	0.6	30.0	30.0	21.3	8.75	3.429	
1,437.3	1,437.3	1,437.9	1,437.9	4.6	4.6	88.85	0.6	30.0	30.0	21.2	8.77	3.421 CC	
1,500.0	1,500.0	1,500.6	1,500.6	4.7	4.7	88.85	0.6	30.0	30.0	21.1	8.88	3.379 ES	
1,520.0	1,520.0	1,520.4	1,520.4	4.8	4.7	113.34	0.6	30.1	30.1	21.2	8.93	3.370 SF	
1,600.0	1,600.0	1,600.0	1,600.0	4.9	4.9	114.20	1.7	31.4	32.1	23.0	9.13	3.514	
1,615.0	1,615.0	1,614.6	1,614.6	4.9	4.9	114.47	2.0	31.8	32.7	23.6	9.19	3.564	
1,700.0	1,699.8	1,698.6	1,698.4	5.2	5.1	116.32	4.9	35.3	38.3	28.8	9.53	4.018	
1,710.0	1,709.8	1,708.5	1,708.3	5.2	5.1	116.55	5.4	35.9	39.2	29.6	9.57	4.090	
1,800.0	1,799.5	1,796.9	1,796.4	5.4	5.4	118.61	10.3	41.9	48.7	38.8	9.94	4.899	
1,805.0	1,804.4	1,801.8	1,801.3	5.5	5.4	118.72	10.6	42.3	49.3	39.4	9.96	4.953	
1,900.0	1,898.7	1,894.5	1,893.3	5.7	5.6	120.51	17.7	51.0	63.3	53.0	10.36	6.111	
1,995.0	1,992.5	1,986.2	1,983.9	6.0	5.9	121.82	26.6	61.9	81.0	70.3	10.77	7.525	
2,000.0	1,997.5	1,991.0	1,988.6	6.1	5.9	121.88	27.1	62.5	82.1	71.3	10.79	7.606	
2,050.0	2,046.6	2,038.8	2,035.6	6.2	6.1	122.40	32.5	69.1	92.9	82.0	10.96	8.481	
2,090.0	2,085.9	2,076.9	2,073.0	6.2	6.2	122.77	37.2	74.9	102.3	91.2	11.10	9.215	
2,100.0	2,095.7	2,086.4	2,082.3	6.3	6.3	122.82	38.4	76.3	104.6	93.5	11.13	9.400	
2,185.0	2,179.1	2,166.6	2,160.6	6.5	6.5	122.71	49.4	89.8	125.7	114.2	11.49	10.940	
2,200.0	2,193.9	2,180.7	2,174.3	6.5	6.6	122.62	51.5	92.4	129.6	118.0	11.55	11.216	
2,280.0	2,272.4	2,257.2	2,248.6	6.8	6.8	122.00	63.1	106.7	150.7	138.8	11.90	12.663	
2,300.0	2,292.0	2,276.5	2,267.3	6.8	6.9	121.87	66.1	110.3	156.0	144.0	11.99	13.012	
2,375.0	2,365.7	2,348.8	2,337.4	7.1	7.1	121.44	77.1	123.8	175.8	163.5	12.33	14.265	
2,400.0	2,390.2	2,372.9	2,360.8	7.2	7.2	121.31	80.8	128.4	182.4	170.0	12.44	14.666	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,470.0	2,458.9	2,440.4	2,426.3	7.4	7.4	121.01	91.2	141.0	201.0	188.2	12.77	15.740	
2,500.0	2,488.4	2,469.3	2,454.4	7.5	7.5	120.90	95.6	146.4	208.9	196.0	12.91	16.181	
2,565.0	2,552.2	2,532.0	2,515.2	7.7	7.8	120.68	105.2	158.2	226.1	212.9	13.23	17.098	
2,600.0	2,586.5	2,565.8	2,548.0	7.9	7.9	120.58	110.3	164.5	235.4	222.0	13.40	17.570	
2,660.0	2,645.4	2,623.6	2,604.1	8.1	8.1	120.42	119.2	175.4	251.3	237.6	13.70	18.348	
2,700.0	2,684.7	2,662.2	2,641.5	8.2	8.2	120.32	125.1	182.6	261.9	248.0	13.90	18.844	
2,755.0	2,738.7	2,715.2	2,693.0	8.4	8.4	120.20	133.2	192.5	276.5	262.3	14.18	19.499	
2,800.0	2,782.8	2,758.6	2,735.1	8.6	8.6	120.11	139.8	200.7	288.4	274.0	14.41	20.012	
2,850.0	2,831.9	2,806.8	2,781.8	8.8	8.8	120.02	147.2	209.7	301.6	287.0	14.67	20.560	
2,900.0	2,881.0	2,855.0	2,828.6	9.0	9.0	119.94	154.6	218.7	314.9	299.9	14.93	21.085	
2,945.0	2,925.2	2,898.4	2,870.7	9.1	9.2	119.87	161.2	226.9	326.8	311.6	15.17	21.539	
3,000.0	2,979.2	2,951.5	2,922.2	9.4	9.4	119.79	169.3	236.8	341.4	325.9	15.47	22.071	
3,040.0	3,018.4	2,990.0	2,959.6	9.5	9.5	119.74	175.2	244.0	352.0	336.3	15.68	22.443	
3,100.0	3,077.3	3,047.9	3,015.7	9.7	9.8	119.67	184.1	254.9	367.9	351.9	16.01	22.979	
3,135.0	3,111.7	3,081.6	3,048.5	9.9	9.9	119.63	189.2	261.2	377.1	360.9	16.20	23.280	
3,200.0	3,175.5	3,144.3	3,109.3	10.1	10.2	119.56	198.8	273.0	394.4	377.8	16.56	23.816	
3,230.0	3,205.0	3,173.2	3,137.4	10.3	10.3	119.53	203.2	278.4	402.3	385.6	16.73	24.054	
3,300.0	3,273.7	3,240.7	3,202.9	10.6	10.6	119.46	213.5	291.0	420.9	403.8	17.12	24.589	
3,325.0	3,298.2	3,264.8	3,226.2	10.7	10.7	119.44	217.2	295.6	427.5	410.2	17.26	24.773	
3,400.0	3,371.8	3,337.1	3,296.4	11.0	11.0	119.38	228.3	309.1	447.4	429.7	17.68	25.304	
3,420.0	3,391.5	3,356.4	3,315.1	11.0	11.1	119.36	231.2	312.7	452.7	434.9	17.79	25.441	
3,500.0	3,470.0	3,433.6	3,390.0	11.4	11.4	119.31	243.0	327.2	473.9	455.6	18.25	25.967	
3,515.0	3,484.7	3,448.0	3,404.0	11.4	11.5	119.30	245.3	329.9	477.9	459.5	18.34	26.062	
3,600.0	3,568.2	3,530.0	3,483.5	11.8	11.8	119.24	257.8	345.3	500.4	481.6	18.82	26.582	
3,610.0	3,578.0	3,539.6	3,492.9	11.8	11.9	119.23	259.3	347.1	503.0	484.2	18.88	26.641	
3,700.0	3,666.3	3,626.4	3,577.1	12.2	12.2	119.18	272.5	363.3	526.9	507.5	19.40	27.154	
3,705.0	3,671.2	3,631.2	3,581.8	12.2	12.3	119.18	273.3	364.2	528.2	508.8	19.43	27.182	
3,800.0	3,764.5	3,722.8	3,670.6	12.6	12.7	119.13	287.3	381.4	553.4	533.4	19.99	27.687	
3,895.0	3,857.7	3,814.4	3,759.5	13.1	13.1	119.08	301.3	398.6	578.6	558.0	20.55	28.160	
3,900.0	3,862.6	3,819.3	3,764.2	13.1	13.1	119.08	302.0	399.5	579.9	559.3	20.58	28.184	
3,990.0	3,951.0	3,906.0	3,848.4	13.5	13.5	119.04	315.3	415.8	603.8	582.7	21.11	28.603	
4,000.0	3,960.8	3,915.7	3,857.8	13.5	13.5	119.03	316.8	417.6	606.4	585.2	21.17	28.648	
4,085.0	4,044.2	3,997.6	3,937.3	13.9	13.9	119.00	329.3	432.9	628.9	607.3	21.67	29.023	
4,097.4	4,056.4	4,009.6	3,948.9	13.9	14.0	118.99	331.1	435.2	632.2	610.5	21.74	29.076	
4,100.0	4,059.0	4,012.1	3,951.3	13.9	14.0	119.00	331.5	435.6	632.9	611.2	21.76	29.089	
4,180.0	4,137.7	4,089.4	4,026.3	14.3	14.3	119.25	343.3	450.1	653.6	631.3	22.24	29.387	
4,200.0	4,157.5	4,108.7	4,045.1	14.4	14.4	119.28	346.3	453.8	658.6	636.2	22.36	29.452	
4,275.0	4,231.7	4,181.4	4,115.6	14.7	14.7	119.31	357.4	467.4	676.7	653.9	22.80	29.677	
4,300.0	4,256.5	4,205.7	4,139.1	14.8	14.8	119.28	361.1	471.9	682.6	659.6	22.95	29.740	
4,370.0	4,326.1	4,273.7	4,205.1	15.1	15.2	119.13	371.5	484.7	698.4	675.1	23.36	29.905	
4,400.0	4,356.0	4,302.8	4,233.4	15.3	15.3	119.03	376.0	490.1	705.0	681.5	23.53	29.963	
4,465.0	4,420.8	4,366.0	4,294.7	15.5	15.6	118.74	385.6	502.0	718.7	694.8	23.89	30.082	
4,500.0	4,455.7	4,400.0	4,327.7	15.6	15.7	118.54	390.8	508.4	725.9	701.8	24.09	30.133	
4,560.0	4,515.7	4,458.3	4,384.3	15.8	16.0	118.15	399.8	519.3	737.7	713.3	24.41	30.219	
4,600.0	4,555.6	4,497.2	4,422.0	16.0	16.2	117.85	405.7	526.6	745.3	720.7	24.63	30.264	
4,647.4	4,603.0	4,544.6	4,468.0	16.0	16.4	92.97	412.9	535.5	754.1	729.2	24.83	30.367	
4,655.0	4,610.6	4,553.9	4,477.0	16.0	16.4	92.86	414.3	537.2	755.4	730.6	24.87	30.371	
4,700.0	4,655.6	4,608.7	4,530.4	16.1	16.7	92.22	422.2	546.8	763.1	738.0	25.12	30.378	
4,750.0	4,705.6	4,670.1	4,590.5	16.1	17.0	91.59	430.2	556.7	771.0	745.6	25.43	30.319	
4,800.0	4,755.6	4,732.1	4,651.3	16.1	17.3	91.03	437.5	565.6	778.1	752.4	25.73	30.241	
4,845.0	4,800.6	4,788.2	4,706.7	16.1	17.5	90.59	443.4	572.8	783.9	757.9	26.00	30.153	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
4,900.0	4,855.6	4,857.4	4,775.1	16.2	17.8	90.12	449.7	580.6	790.0	763.7	26.30	30.034	
4,940.0	4,895.6	4,907.9	4,825.3	16.2	18.1	89.84	453.7	585.4	793.9	767.3	26.52	29.930	
5,000.0	4,955.6	4,984.1	4,901.1	16.2	18.4	89.49	458.6	591.4	798.6	771.8	26.83	29.771	
5,035.0	4,990.6	5,028.8	4,945.6	16.2	18.6	89.32	460.8	594.2	800.8	773.8	26.99	29.671	
5,100.0	5,055.6	5,111.9	5,028.6	16.3	18.9	89.11	463.9	597.9	803.8	776.5	27.28	29.468	
5,130.0	5,085.6	5,150.4	5,067.1	16.3	19.0	89.05	464.8	599.0	804.7	777.3	27.38	29.388	
5,200.0	5,155.6	5,240.2	5,156.9	16.3	19.2	88.99	465.6	600.1	805.5	777.9	27.56	29.223	
5,201.1	5,156.8	5,241.7	5,158.4	16.3	19.2	88.99	465.6	600.1	805.5	777.9	27.57	29.221	
5,225.0	5,180.6	5,264.6	5,181.2	16.4	19.2	88.99	465.6	600.1	805.5	777.9	27.59	29.194	
5,300.0	5,255.6	5,339.6	5,256.2	16.4	19.2	88.99	465.6	600.1	805.5	777.8	27.68	29.096	
5,320.0	5,275.6	5,359.6	5,276.2	16.4	19.2	88.99	465.6	600.1	805.5	777.8	27.71	29.068	
5,400.0	5,355.6	5,439.6	5,356.2	16.5	19.3	88.99	465.6	600.1	805.5	777.7	27.82	28.956	
5,415.0	5,370.6	5,454.6	5,371.2	16.5	19.3	88.99	465.6	600.1	805.5	777.6	27.84	28.935	
5,500.0	5,455.6	5,539.6	5,456.2	16.5	19.3	88.99	465.6	600.1	805.5	777.5	27.95	28.818	
5,510.0	5,465.6	5,549.6	5,466.2	16.5	19.3	88.99	465.6	600.1	805.5	777.5	27.96	28.804	
5,600.0	5,555.6	5,639.6	5,556.2	16.6	19.4	88.99	465.6	600.1	805.5	777.4	28.08	28.680	
5,605.0	5,560.6	5,644.6	5,561.2	16.6	19.4	88.99	465.6	600.1	805.5	777.4	28.09	28.673	
5,700.0	5,655.6	5,739.6	5,656.2	16.6	19.4	88.99	465.6	600.1	805.5	777.3	28.22	28.544	
5,795.0	5,750.6	5,834.6	5,751.2	16.7	19.5	88.99	465.6	600.1	805.5	777.1	28.35	28.415	
5,800.0	5,755.6	5,839.6	5,756.2	16.7	19.5	88.99	465.6	600.1	805.5	777.1	28.35	28.408	
5,890.0	5,845.6	5,929.6	5,846.2	16.7	19.5	88.99	465.6	600.1	805.5	777.0	28.47	28.288	
5,900.0	5,855.6	5,939.6	5,856.2	16.8	19.5	88.99	465.6	600.1	805.5	777.0	28.49	28.274	
5,985.0	5,940.6	6,024.6	5,941.2	16.8	19.5	88.99	465.6	600.1	805.5	776.9	28.60	28.161	
6,000.0	5,955.6	6,039.6	5,956.2	16.8	19.6	88.99	465.6	600.1	805.5	776.9	28.62	28.141	
6,080.0	6,035.6	6,119.6	6,036.2	16.9	19.6	88.99	465.6	600.1	805.5	776.7	28.73	28.035	
6,100.0	6,055.6	6,139.6	6,056.2	16.9	19.6	88.99	465.6	600.1	805.5	776.7	28.76	28.009	
6,175.0	6,130.6	6,214.6	6,131.2	16.9	19.6	88.99	465.6	600.1	805.5	776.6	28.86	27.910	
6,200.0	6,155.6	6,239.6	6,156.2	16.9	19.7	88.99	465.6	600.1	805.5	776.6	28.89	27.877	
6,270.0	6,225.6	6,309.6	6,226.2	17.0	19.7	88.99	465.6	600.1	805.5	776.5	28.99	27.786	
6,300.0	6,255.6	6,339.6	6,256.2	17.0	19.7	88.99	465.6	600.1	805.5	776.4	29.03	27.747	
6,365.0	6,320.6	6,404.6	6,321.2	17.0	19.7	88.99	465.6	600.1	805.5	776.4	29.12	27.663	
6,400.0	6,355.6	6,439.6	6,356.2	17.0	19.7	88.99	465.6	600.1	805.5	776.3	29.16	27.618	
6,460.0	6,415.6	6,499.6	6,416.2	17.1	19.8	88.99	465.6	600.1	805.5	776.2	29.25	27.541	
6,500.0	6,455.6	6,539.6	6,456.2	17.1	19.8	88.99	465.6	600.1	805.5	776.2	29.30	27.490	
6,555.0	6,510.6	6,594.6	6,511.2	17.1	19.8	88.99	465.6	600.1	805.5	776.1	29.38	27.420	
6,600.0	6,555.6	6,639.6	6,556.2	17.2	19.8	88.99	465.6	600.1	805.5	776.0	29.44	27.363	
6,650.0	6,605.6	6,689.6	6,606.2	17.2	19.9	88.99	465.6	600.1	805.5	776.0	29.51	27.300	
6,700.0	6,655.6	6,739.6	6,656.2	17.2	19.9	88.99	465.6	600.1	805.5	775.9	29.57	27.237	
6,745.0	6,700.6	6,784.6	6,701.2	17.3	19.9	88.99	465.6	600.1	805.5	775.8	29.63	27.180	
6,800.0	6,755.6	6,839.6	6,756.2	17.3	19.9	88.99	465.6	600.1	805.5	775.8	29.71	27.111	
6,840.0	6,795.6	6,879.6	6,796.2	17.3	20.0	88.99	465.6	600.1	805.5	775.7	29.76	27.062	
6,900.0	6,855.6	6,939.6	6,856.2	17.4	20.0	88.99	465.6	600.1	805.5	775.6	29.85	26.987	
6,935.0	6,890.6	6,974.6	6,891.2	17.4	20.0	88.99	465.6	600.1	805.5	775.6	29.89	26.944	
7,000.0	6,955.6	7,039.6	6,956.2	17.4	20.0	88.99	465.6	600.1	805.5	775.5	29.98	26.864	
7,030.0	6,985.6	7,069.6	6,986.2	17.4	20.1	88.99	465.6	600.1	805.5	775.5	30.02	26.827	
7,100.0	7,055.6	7,139.6	7,056.2	17.5	20.1	88.99	465.6	600.1	805.5	775.4	30.12	26.741	
7,125.0	7,080.6	7,164.6	7,081.2	17.5	20.1	88.99	465.6	600.1	805.5	775.3	30.16	26.711	
7,200.0	7,155.6	7,239.6	7,156.2	17.5	20.1	88.99	465.6	600.1	805.5	775.2	30.26	26.620	
7,220.0	7,175.6	7,259.6	7,176.2	17.6	20.2	88.99	465.6	600.1	805.5	775.2	30.29	26.596	
7,300.0	7,255.6	7,339.6	7,256.2	17.6	20.2	88.99	465.6	600.1	805.5	775.1	30.40	26.499	
7,315.0	7,270.6	7,354.6	7,271.2	17.6	20.2	88.99	465.6	600.1	805.5	775.1	30.42	26.481	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-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		
7,400.0	7,355.6	7,439.6	7,356.2	17.7	20.2	88.99	465.6	600.1	805.5	774.9	30.53	26.380		
7,410.0	7,365.6	7,449.6	7,366.2	17.7	20.2	88.99	465.6	600.1	805.5	774.9	30.55	26.368		
7,500.0	7,455.6	7,539.6	7,456.2	17.7	20.3	88.99	465.6	600.1	805.5	774.8	30.67	26.261		
7,505.0	7,460.6	7,544.6	7,461.2	17.7	20.3	88.99	465.6	600.1	805.5	774.8	30.68	26.255		
7,600.0	7,555.6	7,639.6	7,556.2	17.8	20.3	88.99	465.6	600.1	805.5	774.7	30.81	26.143		
7,695.0	7,650.6	7,734.6	7,651.2	17.8	20.4	88.99	465.6	600.1	805.5	774.5	30.94	26.032		
7,700.0	7,655.6	7,739.6	7,656.2	17.8	20.4	88.99	465.6	600.1	805.5	774.5	30.95	26.026		
7,790.0	7,745.6	7,829.6	7,746.2	17.9	20.4	88.99	465.6	600.1	805.5	774.4	31.07	25.922		
7,800.0	7,755.6	7,839.6	7,756.2	17.9	20.4	88.99	465.6	600.1	805.5	774.4	31.09	25.910		
7,885.0	7,840.6	7,924.6	7,841.2	18.0	20.5	88.99	465.6	600.1	805.5	774.3	31.20	25.812		
7,900.0	7,855.6	7,939.6	7,856.2	18.0	20.5	88.99	465.6	600.1	805.5	774.3	31.23	25.795		
7,980.0	7,935.6	8,019.6	7,936.2	18.0	20.5	88.99	465.6	600.1	805.5	774.1	31.34	25.704		
8,000.0	7,955.6	8,039.6	7,956.2	18.0	20.6	88.99	465.6	600.1	805.5	774.1	31.36	25.681		
8,075.0	8,030.6	8,114.6	8,031.2	18.1	20.6	88.99	465.6	600.1	805.5	774.0	31.47	25.596		
8,100.0	8,055.6	8,139.6	8,056.2	18.1	20.6	88.99	465.6	600.1	805.5	774.0	31.50	25.568		
8,170.0	8,125.6	8,209.6	8,126.2	18.1	20.6	88.99	465.6	600.1	805.5	773.9	31.60	25.489		
8,200.0	8,155.6	8,239.6	8,156.2	18.2	20.7	88.99	465.6	600.1	805.5	773.8	31.64	25.455		
8,265.0	8,220.6	8,304.6	8,221.2	18.2	20.7	88.99	465.6	600.1	805.5	773.7	31.73	25.382		
8,300.0	8,255.6	8,339.6	8,256.2	18.2	20.7	88.99	465.6	600.1	805.5	773.7	31.78	25.343		
8,360.0	8,315.6	8,399.6	8,316.2	18.3	20.7	88.99	465.6	600.1	805.5	773.6	31.87	25.277		
8,400.0	8,355.6	8,439.6	8,356.2	18.3	20.8	88.99	465.6	600.1	805.5	773.6	31.92	25.232		
8,455.0	8,410.6	8,494.6	8,411.2	18.3	20.8	88.99	465.6	600.1	805.5	773.5	32.00	25.172		
8,500.0	8,455.6	8,539.6	8,456.2	18.4	20.8	88.99	465.6	600.1	805.5	773.4	32.06	25.122		
8,550.0	8,505.6	8,589.6	8,506.2	18.4	20.8	88.99	465.6	600.1	805.5	773.3	32.13	25.068		
8,600.0	8,555.6	8,639.6	8,556.2	18.4	20.9	88.99	465.6	600.1	805.5	773.3	32.20	25.013		
8,645.0	8,600.6	8,684.6	8,601.2	18.4	20.9	88.99	465.6	600.1	805.5	773.2	32.27	24.964		
8,700.0	8,655.6	8,739.6	8,656.2	18.5	20.9	88.99	465.6	600.1	805.5	773.1	32.34	24.905		
8,740.0	8,695.6	8,779.6	8,696.2	18.5	20.9	88.99	465.6	600.1	805.5	773.1	32.40	24.861		
8,800.0	8,755.6	8,839.6	8,756.2	18.5	21.0	88.99	465.6	600.1	805.5	773.0	32.48	24.797		
8,835.0	8,790.6	8,874.6	8,791.2	18.6	21.0	88.99	465.6	600.1	805.5	772.9	32.53	24.760		
8,900.0	8,855.6	8,939.6	8,856.2	18.6	21.0	88.99	465.6	600.1	805.5	772.9	32.62	24.690		
8,930.0	8,885.6	8,969.6	8,886.2	18.6	21.0	88.99	465.6	600.1	805.5	772.8	32.67	24.658		
9,000.0	8,955.6	9,039.6	8,956.2	18.7	21.1	88.99	465.6	600.1	805.5	772.7	32.76	24.584		
9,025.0	8,980.6	9,064.6	8,981.2	18.7	21.1	88.99	465.6	600.1	805.5	772.7	32.80	24.558		
9,100.0	9,055.6	9,139.6	9,056.2	18.7	21.1	88.99	465.6	600.1	805.5	772.6	32.91	24.479		
9,120.0	9,075.6	9,159.6	9,076.2	18.8	21.1	88.99	465.6	600.1	805.5	772.5	32.93	24.458		
9,200.0	9,155.6	9,239.6	9,156.2	18.8	21.2	88.99	465.6	600.1	805.5	772.4	33.05	24.374		
9,215.0	9,170.6	9,254.6	9,171.2	18.8	21.2	88.99	465.6	600.1	805.5	772.4	33.06	24.362		
9,257.4	9,213.0	9,297.0	9,213.6	18.8	21.2	88.99	465.6	600.1	805.5	772.4	33.11	24.326		
9,300.0	9,255.6	9,337.3	9,254.0	18.9	21.2	-91.56	465.2	600.1	805.6	772.4	33.14	24.307		
9,310.0	9,265.6	9,346.3	9,263.0	18.9	21.2	-91.57	464.8	600.1	805.6	772.5	33.15	24.304		
9,350.0	9,305.2	9,382.5	9,299.0	18.9	21.3	-91.65	461.8	600.4	806.0	772.8	33.17	24.301		
9,400.0	9,354.2	9,427.9	9,343.8	19.0	21.3	-91.72	454.9	601.1	806.9	773.7	33.19	24.312		
9,405.0	9,359.0	9,432.4	9,348.3	19.0	21.3	-91.73	454.0	601.2	807.0	773.8	33.19	24.314		
9,450.0	9,402.0	9,473.4	9,388.1	19.1	21.3	-91.78	444.3	602.1	808.2	775.0	33.20	24.339		
9,500.0	9,448.5	9,519.1	9,431.5	19.1	21.3	-91.83	430.3	603.4	809.9	776.7	33.22	24.382		
9,550.0	9,493.1	9,565.0	9,473.9	19.2	21.4	-91.86	412.8	605.1	812.0	778.7	33.22	24.439		
9,595.0	9,531.4	9,606.5	9,510.9	19.2	21.4	-91.87	394.1	606.9	814.2	781.0	33.23	24.501		
9,600.0	9,535.6	9,611.1	9,514.9	19.3	21.4	-91.87	391.8	607.1	814.5	781.2	33.23	24.509		
9,650.0	9,575.6	9,657.5	9,554.4	19.3	21.4	-91.87	367.5	609.4	817.3	784.1	33.24	24.591		
9,690.0	9,605.7	9,694.8	9,584.6	19.4	21.4	-91.85	345.7	611.5	819.9	786.7	33.24	24.664		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
9,700.0	9,612.9	9,704.2	9,591.9	19.4	21.4	-91.85	339.9	612.0	820.6	787.3	33.24	24.683	
9,750.0	9,647.2	9,750.0	9,626.4	19.4	21.5	-91.80	309.9	614.9	824.1	790.9	33.26	24.780	
9,785.0	9,669.2	9,784.3	9,650.6	19.5	21.5	-91.78	285.8	617.2	826.8	793.6	33.26	24.856	
9,800.0	9,678.1	9,798.5	9,660.3	19.5	21.5	-91.76	275.3	618.2	828.0	794.8	33.27	24.889	
9,850.0	9,705.5	9,846.2	9,690.5	19.6	21.6	-91.70	238.6	621.7	832.2	798.9	33.29	24.998	
9,880.0	9,720.2	9,875.0	9,707.3	19.6	21.6	-91.65	215.3	623.9	834.8	801.5	33.31	25.064	
9,900.0	9,729.1	9,894.3	9,717.8	19.6	21.6	-91.62	199.3	625.5	836.6	803.3	33.32	25.109	
9,950.0	9,748.9	9,942.8	9,741.9	19.6	21.6	-91.53	157.4	629.5	841.3	807.9	33.36	25.219	
9,975.0	9,757.2	9,967.2	9,752.7	19.7	21.7	-91.48	135.5	631.5	843.7	810.3	33.39	25.271	
10,000.0	9,764.5	9,991.7	9,762.5	19.7	21.7	-91.42	113.2	633.7	846.2	812.8	33.41	25.325	
10,050.0	9,776.0	10,041.2	9,779.4	19.7	21.7	-91.31	67.0	638.1	851.2	817.7	33.48	25.425	
10,070.0	9,779.3	10,061.1	9,785.1	19.7	21.8	-91.26	48.0	639.9	853.2	819.7	33.51	25.463	
10,100.0	9,783.1	10,091.1	9,792.4	19.7	21.8	-91.18	19.0	642.7	856.3	822.8	33.56	25.519	
10,150.0	9,786.0	10,141.5	9,801.1	19.8	21.8	-91.05	-30.4	647.4	861.6	827.9	33.65	25.602	
10,157.1	9,786.0	10,148.7	9,802.0	19.8	21.8	-91.03	-37.5	648.1	862.3	828.6	33.67	25.614	
10,165.0	9,786.0	10,156.7	9,802.9	19.8	21.9	-91.09	-45.5	648.8	863.1	829.5	33.68	25.626	
10,200.0	9,786.0	10,192.6	9,805.5	19.8	21.9	-91.26	-81.1	652.2	866.8	833.0	33.76	25.673	
10,260.0	9,786.1	10,269.2	9,806.0	19.8	22.0	-91.28	-157.4	659.0	872.7	838.7	33.93	25.721	
10,300.0	9,786.1	10,326.6	9,806.0	19.8	22.1	-91.27	-214.6	662.8	875.7	841.6	34.05	25.717	
10,355.0	9,786.1	10,405.7	9,806.1	19.9	22.2	-91.27	-293.7	666.2	878.5	844.2	34.26	25.644	
10,400.0	9,786.1	10,470.6	9,806.1	19.9	22.3	-91.26	-358.6	667.3	879.6	845.2	34.44	25.538	
10,450.0	9,786.2	10,533.4	9,806.1	19.9	22.4	-91.26	-421.4	667.1	879.8	845.2	34.67	25.377	
10,500.0	9,786.2	10,583.4	9,806.1	19.9	22.5	-91.26	-471.4	666.7	879.8	844.9	34.91	25.205	
10,545.0	9,786.2	10,628.4	9,806.2	20.0	22.5	-91.26	-516.4	666.3	879.8	844.7	35.14	25.035	
10,600.0	9,786.2	10,683.4	9,806.2	20.0	22.6	-91.26	-571.4	665.9	879.8	844.4	35.44	24.826	
10,640.0	9,786.3	10,723.4	9,806.2	20.0	22.7	-91.26	-611.4	665.6	879.8	844.2	35.67	24.664	
10,700.0	9,786.3	10,783.4	9,806.2	20.1	22.8	-91.26	-671.4	665.1	879.8	843.8	36.03	24.420	
10,735.0	9,786.3	10,818.4	9,806.2	20.1	22.9	-91.26	-706.4	664.8	879.8	843.6	36.25	24.270	
10,800.0	9,786.3	10,883.4	9,806.3	20.2	23.0	-91.26	-771.4	664.2	879.8	843.2	36.67	23.991	
10,830.0	9,786.4	10,913.4	9,806.3	20.2	23.1	-91.26	-801.4	664.0	879.8	843.0	36.88	23.857	
10,900.0	9,786.4	10,983.4	9,806.3	20.3	23.2	-91.26	-871.4	663.4	879.8	842.5	37.37	23.544	
10,925.0	9,786.4	11,008.4	9,806.3	20.3	23.3	-91.26	-896.4	663.2	879.8	842.3	37.55	23.429	
11,000.0	9,786.4	11,083.4	9,806.3	20.4	23.5	-91.26	-971.4	662.6	879.8	841.7	38.11	23.084	
11,020.0	9,786.5	11,103.4	9,806.3	20.4	23.5	-91.26	-991.4	662.4	879.8	841.6	38.27	22.991	
11,100.0	9,786.5	11,183.4	9,806.4	20.5	23.7	-91.26	-1,071.4	661.8	879.8	840.9	38.90	22.615	
11,115.0	9,786.5	11,198.4	9,806.4	20.6	23.8	-91.26	-1,086.4	661.6	879.8	840.8	39.03	22.544	
11,200.0	9,786.5	11,283.4	9,806.4	20.7	24.0	-91.26	-1,171.4	660.9	879.8	840.1	39.74	22.141	
11,210.0	9,786.6	11,293.4	9,806.4	20.7	24.0	-91.25	-1,181.4	660.8	879.8	840.0	39.82	22.093	
11,300.0	9,786.6	11,383.4	9,806.5	20.9	24.3	-91.25	-1,271.4	660.1	879.8	839.2	40.61	21.665	
11,305.0	9,786.6	11,388.4	9,806.5	20.9	24.3	-91.25	-1,276.4	660.1	879.8	839.2	40.66	21.641	
11,400.0	9,786.7	11,483.4	9,806.5	21.1	24.6	-91.25	-1,371.4	659.3	879.8	838.3	41.52	21.189	
11,495.0	9,786.7	11,578.4	9,806.5	21.4	24.9	-91.25	-1,466.4	658.5	879.8	837.4	42.42	20.740	
11,500.0	9,786.7	11,583.4	9,806.5	21.4	24.9	-91.25	-1,471.4	658.5	879.8	837.4	42.47	20.717	
11,590.0	9,786.8	11,673.4	9,806.6	21.6	25.3	-91.25	-1,561.4	657.7	879.8	836.5	43.35	20.295	
11,600.0	9,786.8	11,683.4	9,806.6	21.7	25.3	-91.25	-1,571.4	657.6	879.8	836.4	43.45	20.249	
11,685.0	9,786.8	11,768.4	9,806.6	21.9	25.6	-91.25	-1,656.3	656.9	879.8	835.5	44.31	19.857	
11,700.0	9,786.8	11,783.4	9,806.6	22.0	25.7	-91.25	-1,671.3	656.8	879.8	835.4	44.46	19.789	
11,780.0	9,786.9	11,863.4	9,806.6	22.3	26.0	-91.25	-1,751.3	656.1	879.8	834.6	45.29	19.426	
11,800.0	9,786.9	11,883.4	9,806.7	22.4	26.1	-91.25	-1,771.3	656.0	879.9	834.3	45.50	19.337	
11,875.0	9,786.9	11,958.4	9,806.7	22.7	26.4	-91.25	-1,846.3	655.4	879.9	833.6	46.30	19.003	
11,900.0	9,786.9	11,983.4	9,806.7	22.8	26.5	-91.25	-1,871.3	655.1	879.9	833.3	46.57	18.894	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-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)		
11,970.0	9,787.0	12,053.4	9,806.7	23.1	26.8	-91.25	-1,941.3	654.6	879.9	832.5	47.33	18.590
12,000.0	9,787.0	12,083.4	9,806.7	23.2	26.9	-91.25	-1,971.3	654.3	879.9	832.2	47.66	18.462
12,065.0	9,787.0	12,148.4	9,806.8	23.5	27.2	-91.25	-2,036.3	653.8	879.9	831.5	48.38	18.186
12,100.0	9,787.0	12,183.4	9,806.8	23.7	27.3	-91.25	-2,071.3	653.5	879.9	831.1	48.77	18.040
12,160.0	9,787.0	12,243.4	9,806.8	24.0	27.6	-91.25	-2,131.3	653.0	879.9	830.4	49.45	17.792
12,200.0	9,787.1	12,283.4	9,806.8	24.2	27.8	-91.25	-2,171.3	652.7	879.9	829.9	49.91	17.629
12,255.0	9,787.1	12,338.4	9,806.8	24.5	28.1	-91.25	-2,226.3	652.2	879.9	829.3	50.54	17.408
12,300.0	9,787.1	12,383.4	9,806.8	24.7	28.3	-91.25	-2,271.3	651.8	879.9	828.8	51.06	17.230
12,350.0	9,787.1	12,433.4	9,806.9	25.0	28.5	-91.25	-2,321.3	651.4	879.9	828.2	51.65	17.034
12,400.0	9,787.2	12,483.4	9,806.9	25.3	28.8	-91.24	-2,371.3	651.0	879.9	827.6	52.24	16.843
12,445.0	9,787.2	12,528.4	9,806.9	25.6	29.0	-91.24	-2,416.3	650.6	879.9	827.1	52.78	16.672
12,500.0	9,787.2	12,583.4	9,806.9	25.9	29.3	-91.24	-2,471.3	650.2	879.9	826.4	53.43	16.467
12,540.0	9,787.2	12,623.4	9,806.9	26.1	29.5	-91.24	-2,511.3	649.9	879.9	825.9	53.92	16.319
12,600.0	9,787.3	12,683.4	9,807.0	26.5	29.8	-91.24	-2,571.3	649.4	879.9	825.2	54.64	16.102
12,635.0	9,787.3	12,718.4	9,807.0	26.7	30.0	-91.24	-2,606.3	649.1	879.9	824.8	55.07	15.977
12,700.0	9,787.3	12,783.4	9,807.0	27.0	30.3	-91.24	-2,671.3	648.5	879.9	824.0	55.87	15.749
12,730.0	9,787.3	12,813.4	9,807.0	27.2	30.5	-91.24	-2,701.3	648.3	879.9	823.6	56.24	15.645
12,800.0	9,787.4	12,883.4	9,807.0	27.7	30.8	-91.24	-2,771.3	647.7	879.9	822.8	57.11	15.407
12,825.0	9,787.4	12,908.4	9,807.1	27.8	31.0	-91.24	-2,796.3	647.5	879.9	822.4	57.42	15.323
12,900.0	9,787.4	12,983.4	9,807.1	28.3	31.4	-91.24	-2,871.3	646.9	879.9	821.5	58.36	15.076
12,920.0	9,787.4	13,003.4	9,807.1	28.4	31.5	-91.24	-2,891.3	646.7	879.9	821.2	58.61	15.011
13,000.0	9,787.5	13,083.4	9,807.1	28.9	32.0	-91.24	-2,971.3	646.1	879.9	820.2	59.63	14.756
13,015.0	9,787.5	13,098.4	9,807.1	29.0	32.0	-91.24	-2,986.3	645.9	879.9	820.0	59.82	14.709
13,100.0	9,787.5	13,183.4	9,807.2	29.5	32.5	-91.24	-3,071.3	645.2	879.9	819.0	60.90	14.447
13,110.0	9,787.5	13,193.4	9,807.2	29.6	32.6	-91.24	-3,081.3	645.1	879.9	818.8	61.03	14.416
13,200.0	9,787.6	13,283.4	9,807.2	30.2	33.1	-91.24	-3,171.3	644.4	879.9	817.7	62.19	14.147
13,205.0	9,787.6	13,288.4	9,807.2	30.2	33.1	-91.24	-3,176.3	644.4	879.9	817.6	62.26	14.133
13,300.0	9,787.6	13,383.4	9,807.2	30.8	33.7	-91.24	-3,271.3	643.6	879.9	816.4	63.49	13.858
13,395.0	9,787.7	13,478.4	9,807.3	31.5	34.3	-91.24	-3,366.3	642.8	879.9	815.1	64.74	13.591
13,400.0	9,787.7	13,483.4	9,807.3	31.5	34.3	-91.24	-3,371.3	642.8	879.9	815.1	64.80	13.578
13,490.0	9,787.7	13,573.4	9,807.3	32.1	34.8	-91.24	-3,461.3	642.0	879.9	813.9	65.99	13.333
13,500.0	9,787.8	13,583.4	9,807.3	32.2	34.9	-91.24	-3,471.3	641.9	879.9	813.7	66.12	13.307
13,585.0	9,787.8	13,668.4	9,807.4	32.7	35.4	-91.23	-3,556.3	641.2	879.9	812.6	67.25	13.084
13,600.0	9,787.8	13,683.4	9,807.4	32.8	35.5	-91.23	-3,571.3	641.1	879.9	812.4	67.45	13.045
13,680.0	9,787.8	13,763.4	9,807.4	33.4	36.0	-91.23	-3,651.3	640.4	879.9	811.4	68.52	12.842
13,700.0	9,787.9	13,783.4	9,807.4	33.5	36.1	-91.23	-3,671.3	640.3	879.9	811.1	68.78	12.792
13,775.0	9,787.9	13,858.4	9,807.4	34.0	36.6	-91.23	-3,746.3	639.7	879.9	810.1	69.79	12.607
13,800.0	9,787.9	13,883.4	9,807.4	34.2	36.7	-91.23	-3,771.3	639.4	879.9	809.7	70.13	12.547
13,870.0	9,787.9	13,953.4	9,807.5	34.7	37.2	-91.23	-3,841.3	638.9	879.9	808.8	71.07	12.380
13,900.0	9,788.0	13,983.4	9,807.5	34.9	37.4	-91.23	-3,871.3	638.6	879.9	808.4	71.48	12.309
13,965.0	9,788.0	14,048.4	9,807.5	35.3	37.8	-91.23	-3,936.3	638.1	879.9	807.5	72.36	12.159
14,000.0	9,788.0	14,083.4	9,807.5	35.6	38.0	-91.23	-3,971.3	637.8	879.9	807.0	72.84	12.080
14,060.0	9,788.0	14,143.4	9,807.5	36.0	38.4	-91.23	-4,031.3	637.3	879.9	806.2	73.66	11.946
14,100.0	9,788.1	14,183.4	9,807.6	36.3	38.7	-91.23	-4,071.3	637.0	879.9	805.7	74.20	11.858
14,155.0	9,788.1	14,238.4	9,807.6	36.6	39.0	-91.23	-4,126.3	636.5	879.9	804.9	74.96	11.739
14,200.0	9,788.1	14,283.4	9,807.6	37.0	39.3	-91.23	-4,171.3	636.1	879.9	804.3	75.57	11.643
14,250.0	9,788.1	14,333.4	9,807.6	37.3	39.6	-91.23	-4,221.3	635.7	879.9	803.6	76.26	11.538
14,300.0	9,788.2	14,383.4	9,807.6	37.7	40.0	-91.23	-4,271.3	635.3	879.9	802.9	76.95	11.434
14,345.0	9,788.2	14,428.4	9,807.7	38.0	40.2	-91.23	-4,316.3	634.9	879.9	802.3	77.57	11.343
14,400.0	9,788.2	14,483.4	9,807.7	38.4	40.6	-91.23	-4,371.3	634.5	879.9	801.5	78.33	11.233
14,440.0	9,788.2	14,523.4	9,807.7	38.6	40.9	-91.23	-4,411.3	634.2	879.9	801.0	78.89	11.154

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
									(usft)	(usft)			
14,500.0	9,788.3	14,583.4	9,807.7	39.1	41.3	-91.23	-4,471.3	633.7	879.9	800.2	79.72	11.037	
14,535.0	9,788.3	14,618.4	9,807.7	39.3	41.5	-91.23	-4,506.3	633.4	879.9	799.7	80.21	10.970	
14,600.0	9,788.3	14,683.4	9,807.8	39.8	41.9	-91.23	-4,571.3	632.8	879.9	798.8	81.11	10.848	
14,630.0	9,788.3	14,713.4	9,807.8	40.0	42.1	-91.23	-4,601.2	632.6	879.9	798.4	81.53	10.792	
14,700.0	9,788.4	14,783.4	9,807.8	40.5	42.6	-91.22	-4,671.2	632.0	879.9	797.4	82.51	10.664	
14,725.0	9,788.4	14,808.4	9,807.8	40.6	42.8	-91.22	-4,696.2	631.8	879.9	797.0	82.86	10.619	
14,800.0	9,788.4	14,883.4	9,807.8	41.2	43.3	-91.22	-4,771.2	631.2	879.9	796.0	83.91	10.486	
14,820.0	9,788.4	14,903.4	9,807.8	41.3	43.4	-91.22	-4,791.2	631.0	879.9	795.7	84.19	10.451	
14,900.0	9,788.5	14,983.4	9,807.9	41.9	43.9	-91.22	-4,871.2	630.4	879.9	794.6	85.32	10.313	
14,915.0	9,788.5	14,998.4	9,807.9	42.0	44.1	-91.22	-4,886.2	630.2	879.9	794.4	85.53	10.288	
15,000.0	9,788.5	15,083.4	9,807.9	42.6	44.6	-91.22	-4,971.2	629.5	879.9	793.2	86.73	10.145	
15,010.0	9,788.5	15,093.4	9,807.9	42.7	44.7	-91.22	-4,981.2	629.4	879.9	793.0	86.87	10.129	
15,100.0	9,788.6	15,183.4	9,807.9	43.3	45.3	-91.22	-5,071.2	628.7	879.9	791.7	88.14	9.983	
15,105.0	9,788.6	15,188.4	9,807.9	43.4	45.3	-91.22	-5,076.2	628.7	879.9	791.7	88.21	9.975	
15,200.0	9,788.6	15,283.4	9,808.0	44.0	46.0	-91.22	-5,171.2	627.9	879.9	790.3	89.56	9.825	
15,295.0	9,788.7	15,378.4	9,808.0	44.7	46.6	-91.22	-5,266.2	627.1	879.9	789.0	90.91	9.679	
15,300.0	9,788.7	15,383.4	9,808.0	44.8	46.7	-91.22	-5,271.2	627.1	879.9	788.9	90.98	9.671	
15,390.0	9,788.7	15,473.4	9,808.1	45.4	47.3	-91.22	-5,361.2	626.3	879.9	787.6	92.26	9.537	
15,400.0	9,788.7	15,483.4	9,808.1	45.5	47.4	-91.22	-5,371.2	626.2	879.9	787.5	92.41	9.522	
15,485.0	9,788.8	15,568.4	9,808.1	46.1	48.0	-91.22	-5,456.2	625.5	879.9	786.3	93.62	9.399	
15,500.0	9,788.8	15,583.4	9,808.1	46.2	48.1	-91.22	-5,471.2	625.4	879.9	786.1	93.83	9.377	
15,580.0	9,788.8	15,663.4	9,808.1	46.8	48.6	-91.22	-5,551.2	624.7	879.9	784.9	94.98	9.264	
15,600.0	9,788.9	15,683.4	9,808.1	46.9	48.8	-91.22	-5,571.2	624.6	879.9	784.6	95.27	9.236	
15,675.0	9,788.9	15,758.4	9,808.2	47.5	49.3	-91.22	-5,646.2	624.0	879.9	783.6	96.34	9.133	
15,700.0	9,788.9	15,783.4	9,808.2	47.6	49.5	-91.22	-5,671.2	623.7	879.9	783.2	96.70	9.099	
15,770.0	9,788.9	15,853.4	9,808.2	48.2	49.9	-91.22	-5,741.2	623.2	879.9	782.2	97.70	9.006	
15,800.0	9,789.0	15,883.4	9,808.2	48.4	50.2	-91.22	-5,771.2	622.9	879.9	781.8	98.14	8.966	
15,865.0	9,789.0	15,948.4	9,808.2	48.8	50.6	-91.21	-5,836.2	622.4	879.9	780.8	99.07	8.881	
15,900.0	9,789.0	15,983.4	9,808.3	49.1	50.9	-91.21	-5,871.2	622.1	879.9	780.3	99.58	8.836	
15,960.0	9,789.0	16,043.4	9,808.3	49.5	51.3	-91.21	-5,931.2	621.6	879.9	779.5	100.44	8.760	
16,000.0	9,789.1	16,083.4	9,808.3	49.8	51.6	-91.21	-5,971.2	621.3	879.9	778.9	101.02	8.710	
16,055.0	9,789.1	16,138.4	9,808.3	50.2	51.9	-91.21	-6,026.2	620.8	879.9	778.1	101.81	8.642	
16,100.0	9,789.1	16,183.4	9,808.3	50.6	52.3	-91.21	-6,071.2	620.4	879.9	777.4	102.46	8.587	
16,150.0	9,789.1	16,233.4	9,808.4	50.9	52.6	-91.21	-6,121.2	620.0	879.9	776.7	103.19	8.527	
16,200.0	9,789.2	16,283.4	9,808.4	51.3	53.0	-91.21	-6,171.2	619.6	879.9	776.0	103.91	8.468	
16,245.0	9,789.2	16,328.4	9,808.4	51.6	53.3	-91.21	-6,216.2	619.2	879.9	775.3	104.56	8.415	
16,300.0	9,789.2	16,383.4	9,808.4	52.0	53.7	-91.21	-6,271.2	618.8	879.9	774.5	105.36	8.351	
16,340.0	9,789.2	16,423.4	9,808.4	52.3	54.0	-91.21	-6,311.2	618.5	879.9	774.0	105.94	8.306	
16,400.0	9,789.3	16,483.4	9,808.5	52.8	54.4	-91.21	-6,371.2	618.0	879.9	773.1	106.81	8.238	
16,435.0	9,789.3	16,518.4	9,808.5	53.0	54.6	-91.21	-6,406.2	617.7	879.9	772.6	107.32	8.199	
16,500.0	9,789.3	16,583.4	9,808.5	53.5	55.1	-91.21	-6,471.2	617.1	879.9	771.6	108.26	8.127	
16,530.0	9,789.3	16,613.4	9,808.5	53.7	55.3	-91.21	-6,501.2	616.9	879.9	771.2	108.70	8.095	
16,600.0	9,789.4	16,683.4	9,808.5	54.2	55.8	-91.21	-6,571.2	616.3	879.9	770.2	109.72	8.020	
16,625.0	9,789.4	16,708.4	9,808.5	54.4	56.0	-91.21	-6,596.2	616.1	879.9	769.8	110.08	7.993	
16,700.0	9,789.4	16,783.4	9,808.6	55.0	56.5	-91.21	-6,671.2	615.5	879.9	768.7	111.18	7.914	
16,720.0	9,789.4	16,803.4	9,808.6	55.1	56.7	-91.21	-6,691.2	615.3	879.9	768.4	111.47	7.894	
16,800.0	9,789.5	16,883.4	9,808.6	55.7	57.2	-91.21	-6,771.2	614.7	879.9	767.3	112.64	7.812	
16,815.0	9,789.5	16,898.4	9,808.6	55.8	57.3	-91.21	-6,786.2	614.5	879.9	767.0	112.86	7.797	
16,900.0	9,789.5	16,983.4	9,808.7	56.4	58.0	-91.21	-6,871.2	613.8	879.9	765.8	114.10	7.712	
16,910.0	9,789.5	16,993.4	9,808.7	56.5	58.0	-91.21	-6,881.2	613.7	879.9	765.7	114.24	7.702	
17,000.0	9,789.6	17,083.4	9,808.7	57.2	58.7	-91.20	-6,971.2	613.0	879.9	764.3	115.56	7.614	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	
17,005.0	9,789.6	17,088.4	9,808.7	57.2	58.7	-91.20	-6,976.2	613.0	879.9	764.3	115.63	7.609
17,100.0	9,789.6	17,183.4	9,808.7	57.9	59.4	-91.20	-7,071.2	612.2	879.9	762.9	117.03	7.519
17,195.0	9,789.7	17,278.4	9,808.8	58.6	60.1	-91.20	-7,166.2	611.4	879.9	761.5	118.42	7.430
17,200.0	9,789.7	17,283.4	9,808.8	58.6	60.1	-91.20	-7,171.2	611.3	879.9	761.4	118.49	7.426
17,290.0	9,789.7	17,373.4	9,808.8	59.3	60.8	-91.20	-7,261.2	610.6	879.9	760.1	119.81	7.344
17,300.0	9,789.7	17,383.4	9,808.8	59.4	60.8	-91.20	-7,271.2	610.5	879.9	759.9	119.96	7.335
17,385.0	9,789.8	17,468.4	9,808.8	60.0	61.5	-91.20	-7,356.2	609.8	879.9	758.7	121.21	7.259
17,400.0	9,789.8	17,483.4	9,808.8	60.1	61.6	-91.20	-7,371.2	609.7	879.9	758.5	121.43	7.246
17,480.0	9,789.8	17,563.4	9,808.9	60.7	62.1	-91.20	-7,451.2	609.0	879.9	757.3	122.61	7.177
17,500.0	9,789.9	17,583.4	9,808.9	60.9	62.3	-91.20	-7,471.2	608.9	879.9	757.0	122.90	7.160
17,575.0	9,789.9	17,658.4	9,808.9	61.4	62.8	-91.20	-7,546.1	608.3	879.9	755.9	124.00	7.096
17,600.0	9,789.9	17,683.4	9,808.9	61.6	63.0	-91.20	-7,571.1	608.0	879.9	755.5	124.37	7.075
17,670.0	9,789.9	17,753.4	9,809.0	62.1	63.5	-91.20	-7,641.1	607.5	879.9	754.5	125.40	7.017
17,700.0	9,790.0	17,783.4	9,809.0	62.4	63.7	-91.20	-7,671.1	607.2	879.9	754.1	125.85	6.992
17,765.0	9,790.0	17,848.4	9,809.0	62.8	64.2	-91.20	-7,736.1	606.7	879.9	753.1	126.80	6.939
17,800.0	9,790.0	17,883.4	9,809.0	63.1	64.5	-91.20	-7,771.1	606.4	879.9	752.6	127.32	6.911
17,860.0	9,790.0	17,943.4	9,809.0	63.5	64.9	-91.20	-7,831.1	605.9	879.9	751.7	128.21	6.863
17,900.0	9,790.1	17,983.4	9,809.0	63.8	65.2	-91.20	-7,871.1	605.6	879.9	751.1	128.80	6.832
17,955.0	9,790.1	18,038.4	9,809.1	64.3	65.6	-91.20	-7,926.1	605.1	879.9	750.3	129.61	6.789
18,000.0	9,790.1	18,083.4	9,809.1	64.6	65.9	-91.20	-7,971.1	604.7	879.9	749.6	130.27	6.754
18,050.0	9,790.1	18,133.4	9,809.1	65.0	66.3	-91.20	-8,021.1	604.3	879.9	748.9	131.01	6.716
18,100.0	9,790.2	18,183.4	9,809.1	65.3	66.6	-91.20	-8,071.1	603.9	879.9	748.2	131.75	6.679
18,145.0	9,790.2	18,228.4	9,809.1	65.7	67.0	-91.20	-8,116.1	603.5	879.9	747.5	132.42	6.645
18,200.0	9,790.2	18,283.4	9,809.2	66.1	67.4	-91.19	-8,171.1	603.1	879.9	746.7	133.23	6.604
18,240.0	9,790.2	18,323.4	9,809.2	66.4	67.7	-91.19	-8,211.1	602.8	879.9	746.1	133.82	6.575
18,300.0	9,790.3	18,383.4	9,809.2	66.8	68.1	-91.19	-8,271.1	602.3	879.9	745.2	134.71	6.532
18,335.0	9,790.3	18,418.4	9,809.2	67.1	68.4	-91.19	-8,306.1	602.0	879.9	744.7	135.23	6.507
18,400.0	9,790.3	18,483.4	9,809.2	67.6	68.8	-91.19	-8,371.1	601.4	879.9	743.7	136.19	6.461
18,430.0	9,790.3	18,513.4	9,809.3	67.8	69.1	-91.19	-8,401.1	601.2	879.9	743.3	136.64	6.440
18,500.0	9,790.4	18,583.4	9,809.3	68.3	69.6	-91.19	-8,471.1	600.6	879.9	742.2	137.68	6.391
18,525.0	9,790.4	18,608.4	9,809.3	68.5	69.8	-91.19	-8,496.1	600.4	879.9	741.9	138.05	6.374
18,600.0	9,790.4	18,683.4	9,809.3	69.1	70.3	-91.19	-8,571.1	599.8	879.9	740.8	139.16	6.323
18,620.0	9,790.4	18,703.4	9,809.3	69.2	70.5	-91.19	-8,591.1	599.6	879.9	740.5	139.46	6.310
18,700.0	9,790.5	18,783.4	9,809.4	69.8	71.0	-91.19	-8,671.1	599.0	879.9	739.3	140.64	6.256
18,715.0	9,790.5	18,798.4	9,809.4	69.9	71.2	-91.19	-8,686.1	598.8	879.9	739.1	140.87	6.246
18,800.0	9,790.5	18,883.4	9,809.4	70.6	71.8	-91.19	-8,771.1	598.1	879.9	737.8	142.13	6.191
18,810.0	9,790.5	18,893.4	9,809.4	70.6	71.8	-91.19	-8,781.1	598.0	879.9	737.6	142.28	6.185
18,900.0	9,790.6	18,983.4	9,809.4	71.3	72.5	-91.19	-8,871.1	597.3	879.9	736.3	143.62	6.127
18,905.0	9,790.6	18,988.4	9,809.4	71.3	72.5	-91.19	-8,876.1	597.3	879.9	736.2	143.69	6.124
19,000.0	9,790.6	19,083.4	9,809.5	72.0	73.2	-91.19	-8,971.1	596.5	879.9	734.8	145.10	6.064
19,095.0	9,790.7	19,178.4	9,809.5	72.8	73.9	-91.19	-9,066.1	595.7	879.9	733.4	146.52	6.006
19,100.0	9,790.7	19,183.4	9,809.5	72.8	74.0	-91.19	-9,071.1	595.6	879.9	733.3	146.59	6.003
19,190.0	9,790.7	19,273.4	9,809.6	73.5	74.6	-91.19	-9,161.1	594.9	879.9	732.0	147.93	5.948
19,200.0	9,790.7	19,283.4	9,809.6	73.5	74.7	-91.19	-9,171.1	594.8	879.9	731.9	148.08	5.942
19,285.0	9,790.8	19,368.4	9,809.6	74.2	75.3	-91.19	-9,256.1	594.1	879.9	730.6	149.35	5.892
19,300.0	9,790.8	19,383.4	9,809.6	74.3	75.5	-91.19	-9,271.1	594.0	879.9	730.4	149.57	5.883
19,380.0	9,790.8	19,463.4	9,809.6	74.9	76.0	-91.18	-9,351.1	593.3	879.9	729.2	150.76	5.837
19,400.0	9,790.8	19,483.4	9,809.6	75.0	76.2	-91.18	-9,371.1	593.2	879.9	728.9	151.06	5.825
19,475.0	9,790.9	19,558.4	9,809.7	75.6	76.8	-91.18	-9,446.1	592.6	879.9	727.8	152.18	5.782
19,500.0	9,790.9	19,583.4	9,809.7	75.8	76.9	-91.18	-9,471.1	592.3	879.9	727.4	152.55	5.768
19,570.0	9,790.9	19,653.4	9,809.7	76.3	77.5	-91.18	-9,541.1	591.8	879.9	726.3	153.60	5.729

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,600.0	9,791.0	19,683.4	9,809.7	76.5	77.7	-91.18	-9,571.1	591.5	879.9	725.9	154.04	5.712		
19,665.0	9,791.0	19,748.4	9,809.7	77.0	78.2	-91.18	-9,636.1	591.0	879.9	724.9	155.01	5.676		
19,700.0	9,791.0	19,783.4	9,809.8	77.3	78.4	-91.18	-9,671.1	590.7	879.9	724.4	155.54	5.657		
19,760.0	9,791.0	19,843.4	9,809.8	77.7	78.9	-91.18	-9,731.1	590.2	879.9	723.5	156.43	5.625		
19,800.0	9,791.1	19,883.4	9,809.8	78.0	79.2	-91.18	-9,771.1	589.9	879.9	722.9	157.03	5.604		
19,855.0	9,791.1	19,938.4	9,809.8	78.5	79.6	-91.18	-9,826.1	589.4	879.9	722.1	157.85	5.574		
19,900.0	9,791.1	19,983.4	9,809.8	78.8	79.9	-91.18	-9,871.1	589.0	879.9	721.4	158.52	5.551		
19,950.0	9,791.1	20,033.4	9,809.8	79.2	80.3	-91.18	-9,921.1	588.6	879.9	720.7	159.27	5.525		
20,000.0	9,791.2	20,083.4	9,809.9	79.5	80.6	-91.18	-9,971.1	588.2	879.9	719.9	160.02	5.499		
20,045.0	9,791.2	20,128.4	9,809.9	79.9	81.0	-91.18	-10,016.1	587.8	879.9	719.2	160.69	5.476		
20,100.0	9,791.2	20,183.4	9,809.9	80.3	81.4	-91.18	-10,071.1	587.4	879.9	718.4	161.51	5.448		
20,140.0	9,791.2	20,223.4	9,809.9	80.6	81.7	-91.18	-10,111.1	587.1	879.9	717.8	162.11	5.428		
20,200.0	9,791.3	20,283.4	9,809.9	81.0	82.1	-91.18	-10,171.1	586.6	879.9	716.9	163.01	5.398		
20,235.0	9,791.3	20,318.4	9,810.0	81.3	82.4	-91.18	-10,206.1	586.3	879.9	716.4	163.53	5.381		
20,300.0	9,791.3	20,383.4	9,810.0	81.8	82.9	-91.18	-10,271.1	585.7	879.9	715.4	164.51	5.349		
20,330.0	9,791.3	20,413.4	9,810.0	82.0	83.1	-91.18	-10,301.1	585.5	879.9	715.0	164.96	5.334		
20,400.0	9,791.4	20,483.4	9,810.0	82.6	83.6	-91.18	-10,371.1	584.9	879.9	713.9	166.00	5.301		
20,425.0	9,791.4	20,508.4	9,810.0	82.7	83.8	-91.18	-10,396.1	584.7	879.9	713.6	166.38	5.289		
20,500.0	9,791.4	20,583.4	9,810.1	83.3	84.3	-91.17	-10,471.0	584.1	879.9	712.4	167.50	5.253		
20,520.0	9,791.4	20,603.4	9,810.1	83.5	84.5	-91.17	-10,491.0	583.9	879.9	712.1	167.80	5.244		
20,600.0	9,791.5	20,683.4	9,810.1	84.1	85.1	-91.17	-10,571.0	583.3	879.9	710.9	169.00	5.207		
20,615.0	9,791.5	20,698.4	9,810.1	84.2	85.2	-91.17	-10,586.0	583.1	879.9	710.7	169.22	5.200		
20,700.0	9,791.5	20,783.4	9,810.1	84.8	85.8	-91.17	-10,671.0	582.4	879.9	709.5	170.50	5.161		
20,710.0	9,791.5	20,793.4	9,810.1	84.9	85.9	-91.17	-10,681.0	582.3	879.9	709.3	170.65	5.157		
20,800.0	9,791.6	20,883.4	9,810.2	85.6	86.6	-91.17	-10,771.0	581.6	879.9	708.0	172.00	5.116		
20,805.0	9,791.6	20,888.4	9,810.2	85.6	86.6	-91.17	-10,776.0	581.6	879.9	707.9	172.07	5.114		
20,900.0	9,791.6	20,983.4	9,810.2	86.3	87.3	-91.17	-10,871.0	580.8	879.9	706.5	173.50	5.072		
20,995.0	9,791.7	21,078.4	9,810.3	87.0	88.0	-91.17	-10,966.0	580.0	880.0	705.0	174.92	5.031		
21,000.0	9,791.7	21,083.4	9,810.3	87.1	88.1	-91.17	-10,971.0	579.9	880.0	705.0	175.00	5.028		
21,090.0	9,791.7	21,173.4	9,810.3	87.7	88.7	-91.17	-11,061.0	579.2	880.0	703.6	176.35	4.990		
21,100.0	9,791.7	21,183.4	9,810.3	87.8	88.8	-91.17	-11,071.0	579.1	880.0	703.5	176.50	4.986		
21,185.0	9,791.8	21,268.4	9,810.3	88.5	89.5	-91.17	-11,156.0	578.4	880.0	702.2	177.77	4.950		
21,200.0	9,791.8	21,283.4	9,810.3	88.6	89.6	-91.17	-11,171.0	578.3	880.0	702.0	178.00	4.944		
21,280.0	9,791.8	21,363.4	9,810.4	89.2	90.2	-91.17	-11,251.0	577.6	880.0	700.8	179.20	4.910		
21,300.0	9,791.8	21,383.4	9,810.4	89.3	90.3	-91.17	-11,271.0	577.5	880.0	700.5	179.50	4.902		
21,375.0	9,791.9	21,458.4	9,810.4	89.9	90.9	-91.17	-11,346.0	576.8	880.0	699.3	180.63	4.872		
21,400.0	9,791.9	21,483.4	9,810.4	90.1	91.1	-91.17	-11,371.0	576.6	880.0	699.0	181.00	4.862		
21,470.0	9,791.9	21,553.4	9,810.4	90.6	91.6	-91.17	-11,441.0	576.1	880.0	697.9	182.05	4.834		
21,500.0	9,791.9	21,583.4	9,810.5	90.8	91.8	-91.17	-11,471.0	575.8	880.0	697.5	182.50	4.822		
21,565.0	9,792.0	21,648.4	9,810.5	91.3	92.3	-91.17	-11,536.0	575.3	880.0	696.5	183.48	4.796		
21,600.0	9,792.0	21,683.4	9,810.5	91.6	92.5	-91.17	-11,571.0	575.0	880.0	696.0	184.01	4.782		
21,660.0	9,792.0	21,743.4	9,810.5	92.0	93.0	-91.16	-11,631.0	574.5	880.0	695.0	184.91	4.759		
21,700.0	9,792.1	21,783.4	9,810.5	92.3	93.3	-91.16	-11,671.0	574.2	880.0	694.4	185.51	4.743		
21,755.0	9,792.1	21,838.4	9,810.6	92.8	93.7	-91.16	-11,726.0	573.7	880.0	693.6	186.34	4.722		
21,800.0	9,792.1	21,883.4	9,810.6	93.1	94.0	-91.16	-11,771.0	573.3	880.0	692.9	187.01	4.705		
21,850.0	9,792.1	21,933.4	9,810.6	93.5	94.4	-91.16	-11,821.0	572.9	880.0	692.2	187.77	4.686		
21,900.0	9,792.2	21,983.4	9,810.6	93.9	94.8	-91.16	-11,871.0	572.5	880.0	691.4	188.52	4.668		
21,945.0	9,792.2	22,028.4	9,810.6	94.2	95.1	-91.16	-11,916.0	572.1	880.0	690.8	189.20	4.651		
22,000.0	9,792.2	22,083.4	9,810.7	94.6	95.5	-91.16	-11,971.0	571.7	880.0	689.9	190.02	4.631		
22,040.0	9,792.2	22,123.4	9,810.7	94.9	95.8	-91.16	-12,011.0	571.4	880.0	689.3	190.62	4.616		
22,100.0	9,792.3	22,183.4	9,810.7	95.4	96.3	-91.16	-12,071.0	570.9	880.0	688.4	191.53	4.594		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
22,135.0	9,792.3	22,218.4	9,810.7	95.6	96.5	-91.16	-12,106.0	570.6	880.0	687.9	192.05	4.582	
22,200.0	9,792.3	22,283.4	9,810.7	96.1	97.0	-91.16	-12,171.0	570.0	880.0	686.9	193.03	4.559	
22,230.0	9,792.3	22,313.4	9,810.7	96.3	97.3	-91.16	-12,201.0	569.8	880.0	686.5	193.48	4.548	
22,300.0	9,792.4	22,383.4	9,810.8	96.9	97.8	-91.16	-12,271.0	569.2	880.0	685.4	194.54	4.523	
22,325.0	9,792.4	22,408.4	9,810.8	97.1	98.0	-91.16	-12,296.0	569.0	880.0	685.1	194.91	4.515	
22,400.0	9,792.4	22,483.4	9,810.8	97.6	98.5	-91.16	-12,371.0	568.4	880.0	683.9	196.04	4.489	
22,420.0	9,792.4	22,503.4	9,810.8	97.8	98.7	-91.16	-12,391.0	568.2	880.0	683.6	196.35	4.482	
22,500.0	9,792.5	22,583.4	9,810.8	98.4	99.3	-91.16	-12,471.0	567.6	880.0	682.4	197.55	4.454	
22,515.0	9,792.5	22,598.4	9,810.9	98.5	99.4	-91.16	-12,486.0	567.4	880.0	682.2	197.78	4.449	
22,600.0	9,792.5	22,683.4	9,810.9	99.1	100.0	-91.16	-12,571.0	566.7	880.0	680.9	199.06	4.421	
22,610.0	9,792.5	22,693.4	9,810.9	99.2	100.1	-91.16	-12,581.0	566.6	880.0	680.8	199.21	4.417	
22,700.0	9,792.6	22,783.4	9,810.9	99.9	100.8	-91.16	-12,671.0	565.9	880.0	679.4	200.56	4.387	
22,705.0	9,792.6	22,788.4	9,810.9	99.9	100.8	-91.16	-12,676.0	565.9	880.0	679.3	200.64	4.386	
22,800.0	9,792.6	22,883.4	9,811.0	100.7	101.5	-91.15	-12,771.0	565.1	880.0	677.9	202.07	4.355	
22,895.0	9,792.7	22,978.4	9,811.0	101.4	102.2	-91.15	-12,866.0	564.3	880.0	676.5	203.50	4.324	
22,900.0	9,792.7	22,983.4	9,811.0	101.4	102.3	-91.15	-12,871.0	564.2	880.0	676.4	203.58	4.323	
22,990.0	9,792.7	23,073.4	9,811.0	102.1	103.0	-91.15	-12,961.0	563.5	880.0	675.0	204.94	4.294	
23,000.0	9,792.7	23,083.4	9,811.0	102.2	103.0	-91.15	-12,971.0	563.4	880.0	674.9	205.09	4.291	
23,085.0	9,792.8	23,168.4	9,811.1	102.8	103.7	-91.15	-13,056.0	562.7	880.0	673.6	206.37	4.264	
23,100.0	9,792.8	23,183.4	9,811.1	102.9	103.8	-91.15	-13,071.0	562.6	880.0	673.4	206.59	4.259	
23,180.0	9,792.8	23,263.4	9,811.1	103.5	104.4	-91.15	-13,151.0	561.9	880.0	672.2	207.80	4.235	
23,200.0	9,792.8	23,283.4	9,811.1	103.7	104.5	-91.15	-13,171.0	561.8	880.0	671.9	208.10	4.229	
23,275.0	9,792.9	23,358.4	9,811.2	104.2	105.1	-91.15	-13,246.0	561.1	880.0	670.7	209.23	4.206	
23,300.0	9,792.9	23,383.4	9,811.2	104.4	105.3	-91.15	-13,271.0	560.9	880.0	670.4	209.61	4.198	
23,370.0	9,792.9	23,453.4	9,811.2	105.0	105.8	-91.15	-13,340.9	560.4	880.0	669.3	210.67	4.177	
23,400.0	9,792.9	23,483.4	9,811.2	105.2	106.0	-91.15	-13,370.9	560.1	880.0	668.9	211.12	4.168	
23,465.0	9,793.0	23,548.4	9,811.2	105.7	106.5	-91.15	-13,435.9	559.6	880.0	667.9	212.10	4.149	
23,500.0	9,793.0	23,583.4	9,811.2	105.9	106.8	-91.15	-13,470.9	559.3	880.0	667.3	212.63	4.139	
23,560.0	9,793.0	23,643.4	9,811.3	106.4	107.2	-91.15	-13,530.9	558.8	880.0	666.4	213.54	4.121	
23,600.0	9,793.0	23,683.4	9,811.3	106.7	107.5	-91.15	-13,570.9	558.5	880.0	665.8	214.14	4.109	
23,655.0	9,793.1	23,738.4	9,811.3	107.1	108.0	-91.15	-13,625.9	558.0	880.0	665.0	214.97	4.093	
23,700.0	9,793.1	23,783.4	9,811.3	107.5	108.3	-91.15	-13,670.9	557.6	880.0	664.3	215.65	4.081	
23,750.0	9,793.1	23,833.4	9,811.3	107.8	108.7	-91.15	-13,720.9	557.2	880.0	663.6	216.40	4.066	
23,800.0	9,793.2	23,883.4	9,811.4	108.2	109.0	-91.15	-13,770.9	556.8	880.0	662.8	217.16	4.052	
23,845.0	9,793.2	23,928.4	9,811.4	108.6	109.4	-91.15	-13,815.9	556.4	880.0	662.1	217.84	4.040	
23,900.0	9,793.2	23,983.4	9,811.4	109.0	109.8	-91.15	-13,870.9	556.0	880.0	661.3	218.67	4.024	
23,940.0	9,793.2	24,023.4	9,811.4	109.3	110.1	-91.15	-13,910.9	555.7	880.0	660.7	219.27	4.013	
24,000.0	9,793.3	24,083.4	9,811.4	109.7	110.5	-91.14	-13,970.9	555.2	880.0	659.8	220.18	3.997	
24,035.0	9,793.3	24,118.4	9,811.5	110.0	110.8	-91.14	-14,005.9	554.9	880.0	659.3	220.71	3.987	
24,100.0	9,793.3	24,183.4	9,811.5	110.5	111.3	-91.14	-14,070.9	554.3	880.0	658.3	221.69	3.969	
24,130.0	9,793.3	24,213.4	9,811.5	110.7	111.5	-91.14	-14,100.9	554.1	880.0	657.8	222.14	3.961	
24,200.0	9,793.4	24,283.4	9,811.5	111.2	112.1	-91.14	-14,170.9	553.5	880.0	656.8	223.20	3.943	
24,225.0	9,793.4	24,308.4	9,811.5	111.4	112.2	-91.14	-14,195.9	553.3	880.0	656.4	223.58	3.936	
24,300.0	9,793.4	24,383.4	9,811.6	112.0	112.8	-91.14	-14,270.9	552.7	880.0	655.3	224.71	3.916	
24,320.0	9,793.4	24,403.4	9,811.6	112.2	113.0	-91.14	-14,290.9	552.5	880.0	655.0	225.02	3.911	
24,400.0	9,793.5	24,483.4	9,811.6	112.8	113.6	-91.14	-14,370.9	551.9	880.0	653.8	226.23	3.890	
24,415.0	9,793.5	24,498.4	9,811.6	112.9	113.7	-91.14	-14,385.9	551.7	880.0	653.5	226.45	3.886	
24,500.0	9,793.5	24,583.4	9,811.6	113.5	114.3	-91.14	-14,470.9	551.0	880.0	652.3	227.74	3.864	
24,510.0	9,793.5	24,593.4	9,811.6	113.6	114.4	-91.14	-14,480.9	550.9	880.0	652.1	227.89	3.861	
24,600.0	9,793.6	24,683.4	9,811.7	114.3	115.1	-91.14	-14,570.9	550.2	880.0	650.7	229.25	3.839	
24,605.0	9,793.6	24,688.4	9,811.7	114.3	115.1	-91.14	-14,575.9	550.2	880.0	650.7	229.32	3.837	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
24,700.0	9,793.6	24,783.4	9,811.7	115.0	115.8	-91.14	-14,670.9	549.4	880.0	649.2	230.76	3.813	
24,795.0	9,793.7	24,878.4	9,811.8	115.8	116.5	-91.14	-14,765.9	548.6	880.0	647.8	232.20	3.790	
24,800.0	9,793.7	24,883.4	9,811.8	115.8	116.6	-91.14	-14,770.9	548.5	880.0	647.7	232.27	3.789	
24,890.0	9,793.7	24,973.4	9,811.8	116.5	117.3	-91.14	-14,860.9	547.8	880.0	646.4	233.63	3.767	
24,900.0	9,793.7	24,983.4	9,811.8	116.6	117.3	-91.14	-14,870.9	547.7	880.0	646.2	233.79	3.764	
24,985.0	9,793.8	25,068.4	9,811.8	117.2	118.0	-91.14	-14,955.9	547.0	880.0	644.9	235.07	3.744	
25,000.0	9,793.8	25,083.4	9,811.8	117.3	118.1	-91.14	-14,970.9	546.9	880.0	644.7	235.30	3.740	
25,080.0	9,793.8	25,163.4	9,811.9	117.9	118.7	-91.14	-15,050.9	546.2	880.0	643.5	236.51	3.721	
25,100.0	9,793.8	25,183.4	9,811.9	118.1	118.8	-91.14	-15,070.9	546.1	880.0	643.2	236.81	3.716	
25,175.0	9,793.9	25,258.4	9,811.9	118.6	119.4	-91.13	-15,145.9	545.4	880.0	642.1	237.95	3.698	
25,200.0	9,793.9	25,283.4	9,811.9	118.8	119.6	-91.13	-15,170.9	545.2	880.0	641.7	238.32	3.692	
25,270.0	9,793.9	25,353.4	9,811.9	119.4	120.1	-91.13	-15,240.9	544.7	880.0	640.6	239.38	3.676	
25,278.2	9,793.9	25,361.6	9,811.9	119.4	120.2	-91.13	-15,249.1	544.6	880.0	640.5	239.51	3.674	
25,300.0	9,793.9	25,383.4	9,811.9	119.6	120.3	-91.13	-15,270.9	544.4	880.0	640.2	239.84	3.669	
25,365.0	9,794.0	25,448.4	9,812.0	120.1	120.8	-91.13	-15,335.9	543.9	880.0	639.2	240.82	3.654	
25,408.3	9,794.0	25,491.7	9,812.0	120.4	121.2	-91.13	-15,379.2	543.5	880.0	638.5	241.48	3.644	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-91.15	-0.6	-29.9	29.9				
95.0	95.0	95.0	95.0	3.0	3.0	-91.15	-0.6	-29.9	29.9	23.9	6.04	4.955	
100.0	100.0	100.0	100.0	3.0	3.0	-91.15	-0.6	-29.9	29.9	23.9	6.04	4.951	
190.0	190.0	190.0	190.0	3.1	3.1	-91.15	-0.6	-29.9	29.9	23.7	6.25	4.783	
200.0	200.0	200.0	200.0	3.1	3.1	-91.15	-0.6	-29.9	29.9	23.6	6.29	4.757	
285.0	285.0	285.0	285.0	3.3	3.3	-91.15	-0.6	-29.9	29.9	23.4	6.48	4.613	
300.0	300.0	300.0	300.0	3.3	3.3	-91.15	-0.6	-29.9	29.9	23.4	6.52	4.585	
380.0	380.0	380.0	380.0	3.4	3.4	-91.15	-0.6	-29.9	29.9	23.2	6.70	4.462	
400.0	400.0	400.0	400.0	3.4	3.4	-91.15	-0.6	-29.9	29.9	23.2	6.75	4.430	
475.0	475.0	475.0	475.0	3.5	3.5	-91.15	-0.6	-29.9	29.9	23.0	6.91	4.326	
500.0	500.0	500.0	500.0	3.5	3.5	-91.15	-0.6	-29.9	29.9	22.9	6.97	4.290	
570.0	570.0	570.0	570.0	3.6	3.6	-91.15	-0.6	-29.9	29.9	22.8	7.12	4.201	
600.0	600.0	600.0	600.0	3.6	3.6	-91.15	-0.6	-29.9	29.9	22.7	7.18	4.163	
665.0	665.0	665.0	665.0	3.7	3.7	-91.15	-0.6	-29.9	29.9	22.6	7.32	4.087	
700.0	700.0	700.0	700.0	3.8	3.8	-91.15	-0.6	-29.9	29.9	22.5	7.39	4.046	
760.0	760.0	760.0	760.0	3.8	3.8	-91.15	-0.6	-29.9	29.9	22.4	7.51	3.981	
800.0	800.0	800.0	800.0	3.9	3.9	-91.15	-0.6	-29.9	29.9	22.3	7.59	3.938	
855.0	855.0	855.0	855.0	4.0	4.0	-91.15	-0.6	-29.9	29.9	22.2	7.70	3.883	
900.0	900.0	900.0	900.0	4.0	4.0	-91.15	-0.6	-29.9	29.9	22.1	7.79	3.839	
950.0	950.0	950.0	950.0	4.1	4.1	-91.15	-0.6	-29.9	29.9	22.0	7.89	3.792	
1,000.0	1,000.0	1,000.0	1,000.0	4.1	4.1	-91.15	-0.6	-29.9	29.9	21.9	7.98	3.747	
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	-91.15	-0.6	-29.9	29.9	21.8	8.07	3.708	
1,100.0	1,100.0	1,100.0	1,100.0	4.2	4.2	-91.15	-0.6	-29.9	29.9	21.7	8.17	3.661	
1,140.0	1,140.0	1,140.0	1,140.0	4.3	4.3	-91.15	-0.6	-29.9	29.9	21.7	8.24	3.628	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-91.15	-0.6	-29.9	29.9	21.6	8.35	3.580	
1,235.0	1,235.0	1,235.0	1,235.0	4.4	4.4	-91.15	-0.6	-29.9	29.9	21.5	8.42	3.554	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-91.15	-0.6	-29.9	29.9	21.4	8.53	3.505	
1,330.0	1,330.0	1,330.0	1,330.0	4.5	4.5	-91.15	-0.6	-29.9	29.9	21.3	8.58	3.484	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-91.15	-0.6	-29.9	29.9	21.2	8.71	3.435	
1,425.0	1,425.0	1,425.0	1,425.0	4.6	4.6	-91.15	-0.6	-29.9	29.9	21.2	8.75	3.418	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-91.15	-0.6	-29.9	29.9	21.0	8.88	3.368 CC	
1,520.0	1,520.0	1,519.8	1,519.8	4.8	4.7	-66.76	-0.6	-30.0	29.9	21.0	8.93	3.351 ES, SF	
1,600.0	1,600.0	1,599.0	1,599.0	4.9	4.8	-68.35	0.1	-31.5	30.8	21.7	9.15	3.369	
1,615.0	1,615.0	1,613.9	1,613.9	4.9	4.9	-68.87	0.3	-32.0	31.1	21.9	9.21	3.379	
1,700.0	1,699.8	1,698.0	1,697.8	5.2	5.0	-72.77	2.0	-36.2	33.7	24.1	9.55	3.525	
1,710.0	1,709.8	1,707.9	1,707.7	5.2	5.1	-73.32	2.3	-36.9	34.1	24.5	9.59	3.553	
1,800.0	1,799.5	1,796.7	1,796.2	5.4	5.3	-78.60	5.3	-44.1	38.8	28.9	9.94	3.905	
1,805.0	1,804.4	1,801.7	1,801.1	5.5	5.3	-78.90	5.5	-44.6	39.1	29.2	9.95	3.929	
1,900.0	1,898.7	1,895.2	1,893.9	5.7	5.6	-84.47	9.8	-55.0	46.5	36.2	10.30	4.509	
1,995.0	1,992.5	1,988.4	1,986.0	6.0	5.9	-89.35	15.3	-68.3	56.2	45.6	10.65	5.280	
2,000.0	1,997.5	1,993.3	1,990.9	6.1	5.9	-89.58	15.6	-69.1	56.8	46.1	10.66	5.325	
2,050.0	2,046.6	2,042.1	2,038.9	6.2	6.0	-91.75	18.9	-77.2	63.0	52.2	10.81	5.827	
2,090.0	2,085.9	2,081.2	2,077.2	6.2	6.2	-93.18	21.9	-84.2	68.4	57.4	10.92	6.261	
2,100.0	2,095.7	2,091.0	2,086.8	6.3	6.2	-93.45	22.6	-86.0	69.8	58.8	10.95	6.373	
2,185.0	2,179.1	2,173.6	2,167.4	6.5	6.5	-94.62	29.5	-102.7	82.6	71.4	11.27	7.332	
2,200.0	2,193.9	2,188.1	2,181.6	6.5	6.6	-94.66	30.8	-105.9	85.1	73.7	11.33	7.509	
2,280.0	2,272.4	2,266.8	2,257.9	6.8	6.8	-94.59	38.1	-123.5	98.3	86.7	11.64	8.446	
2,300.0	2,292.0	2,286.6	2,277.0	6.8	6.9	-94.57	39.9	-127.9	101.6	89.9	11.72	8.672	
2,375.0	2,365.7	2,360.5	2,348.8	7.1	7.1	-94.51	46.8	-144.4	114.0	102.0	12.02	9.488	
2,400.0	2,390.2	2,385.2	2,372.7	7.2	7.2	-94.50	49.0	-149.9	118.2	106.0	12.12	9.751	
2,470.0	2,458.9	2,454.2	2,439.7	7.4	7.4	-94.46	55.4	-165.4	129.8	117.4	12.41	10.457	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
									(usft)	(usft)			
2,500.0	2,488.4	2,483.8	2,468.4	7.5	7.5	-94.44	58.2	-172.0	134.7	122.2	12.53	10.749	
2,565.0	2,552.2	2,547.9	2,530.6	7.7	7.8	-94.41	64.1	-186.3	145.5	132.7	12.81	11.358	
2,600.0	2,586.5	2,582.4	2,564.1	7.9	7.9	-94.40	67.3	-194.0	151.3	138.3	12.96	11.674	
2,660.0	2,645.4	2,641.6	2,621.5	8.1	8.1	-94.38	72.7	-207.2	161.2	148.0	13.22	12.195	
2,700.0	2,684.7	2,681.0	2,659.8	8.2	8.3	-94.36	76.4	-216.1	167.9	154.5	13.40	12.530	
2,755.0	2,738.7	2,735.3	2,712.4	8.4	8.5	-94.35	81.4	-228.2	177.0	163.3	13.64	12.974	
2,800.0	2,782.8	2,779.7	2,755.5	8.6	8.6	-94.33	85.5	-238.1	184.4	170.6	13.84	13.324	
2,850.0	2,831.9	2,829.0	2,803.3	8.8	8.8	-94.32	90.1	-249.1	192.7	178.6	14.07	13.698	
2,900.0	2,881.0	2,878.3	2,851.2	9.0	9.0	-94.31	94.6	-260.2	201.0	186.7	14.29	14.060	
2,945.0	2,925.2	2,922.6	2,894.2	9.1	9.2	-94.30	98.7	-270.1	208.4	193.9	14.50	14.374	
3,000.0	2,979.2	2,976.9	2,946.9	9.4	9.4	-94.29	103.7	-282.2	217.5	202.8	14.75	14.744	
3,040.0	3,018.4	3,016.3	2,985.1	9.5	9.6	-94.28	107.4	-291.0	224.2	209.2	14.94	15.004	
3,100.0	3,077.3	3,075.5	3,042.6	9.7	9.8	-94.27	112.9	-304.2	234.1	218.9	15.22	15.380	
3,135.0	3,111.7	3,110.0	3,076.1	9.9	10.0	-94.27	116.0	-312.0	239.9	224.5	15.39	15.592	
3,200.0	3,175.5	3,174.1	3,138.3	10.1	10.2	-94.26	122.0	-326.3	250.7	235.0	15.69	15.972	
3,230.0	3,205.0	3,203.7	3,167.0	10.3	10.4	-94.25	124.7	-332.9	255.6	239.8	15.84	16.142	
3,300.0	3,273.7	3,272.7	3,233.9	10.6	10.7	-94.24	131.1	-348.3	267.2	251.1	16.17	16.524	
3,325.0	3,298.2	3,297.4	3,257.9	10.7	10.8	-94.24	133.4	-353.8	271.4	255.1	16.29	16.656	
3,400.0	3,371.8	3,371.4	3,329.6	11.0	11.1	-94.23	140.2	-370.4	283.8	267.1	16.65	17.040	
3,420.0	3,391.5	3,391.1	3,348.8	11.0	11.2	-94.23	142.0	-374.8	287.1	270.3	16.75	17.139	
3,500.0	3,470.0	3,470.0	3,425.3	11.4	11.5	-94.22	149.3	-392.4	300.3	283.2	17.14	17.522	
3,515.0	3,484.7	3,484.8	3,439.7	11.4	11.6	-94.22	150.7	-395.7	302.8	285.6	17.21	17.591	
3,600.0	3,568.2	3,568.6	3,521.0	11.8	12.0	-94.21	158.4	-414.5	316.9	299.3	17.63	17.973	
3,610.0	3,578.0	3,578.5	3,530.6	11.8	12.0	-94.21	159.4	-416.7	318.6	300.9	17.68	18.017	
3,700.0	3,666.3	3,667.2	3,616.7	12.2	12.4	-94.20	167.6	-436.5	333.5	315.3	18.13	18.396	
3,705.0	3,671.2	3,672.2	3,621.5	12.2	12.4	-94.20	168.0	-437.6	334.3	316.1	18.15	18.417	
3,800.0	3,764.5	3,765.8	3,712.4	12.6	12.8	-94.20	176.7	-458.6	350.0	331.4	18.63	18.794	
3,895.0	3,857.7	3,859.5	3,803.3	13.1	13.2	-94.19	185.3	-479.5	365.8	346.7	19.10	19.149	
3,900.0	3,862.6	3,864.5	3,808.1	13.1	13.3	-94.19	185.8	-480.6	366.6	347.5	19.13	19.168	
3,990.0	3,951.0	3,953.2	3,894.2	13.5	13.7	-94.18	194.0	-500.4	381.5	361.9	19.58	19.485	
4,000.0	3,960.8	3,963.1	3,903.8	13.5	13.7	-94.18	194.9	-502.7	383.2	363.5	19.63	19.520	
4,085.0	4,044.2	4,046.9	3,985.1	13.9	14.1	-94.18	202.7	-521.4	397.2	377.2	20.06	19.805	
4,097.4	4,056.4	4,059.1	3,997.0	13.9	14.2	-94.18	203.8	-524.1	399.3	379.2	20.12	19.846	
4,100.0	4,059.0	4,061.7	3,999.5	13.9	14.2	-94.19	204.0	-524.7	399.7	379.6	20.13	19.856	
4,180.0	4,137.7	4,140.6	4,076.0	14.3	14.5	-94.28	211.3	-542.3	412.9	392.3	20.54	20.099	
4,200.0	4,157.5	4,160.3	4,095.2	14.4	14.6	-94.26	213.1	-546.7	416.2	395.5	20.65	20.154	
4,275.0	4,231.7	4,234.2	4,166.9	14.7	15.0	-94.01	220.0	-563.3	428.3	407.3	21.05	20.348	
4,300.0	4,256.5	4,258.9	4,190.8	14.8	15.1	-93.88	222.2	-568.8	432.4	411.2	21.19	20.406	
4,370.0	4,326.1	4,327.7	4,257.6	15.1	15.4	-93.37	228.6	-584.2	443.6	422.1	21.58	20.558	
4,400.0	4,356.0	4,357.2	4,286.2	15.3	15.5	-93.10	231.3	-590.7	448.5	426.7	21.75	20.616	
4,465.0	4,420.8	4,420.9	4,348.0	15.5	15.8	-92.40	237.2	-605.0	458.9	436.8	22.14	20.733	
4,500.0	4,455.7	4,455.2	4,381.3	15.6	16.0	-91.97	240.4	-612.7	464.6	442.2	22.35	20.787	
4,560.0	4,515.7	4,513.8	4,438.1	15.8	16.2	-91.15	245.8	-625.8	474.4	451.6	22.73	20.874	
4,600.0	4,555.6	4,552.8	4,475.9	16.0	16.4	-90.54	249.4	-634.5	481.0	458.0	22.99	20.923	
4,647.4	4,603.0	4,598.8	4,520.6	16.0	16.6	-114.22	253.7	-644.8	488.9	465.6	23.28	20.997	
4,655.0	4,610.6	4,606.2	4,527.8	16.0	16.7	-114.07	254.4	-646.4	490.2	466.8	23.33	21.008	
4,700.0	4,655.6	4,649.9	4,570.2	16.1	16.9	-113.17	258.4	-656.2	497.8	474.2	23.62	21.073	
4,750.0	4,705.6	4,698.4	4,617.2	16.1	17.1	-112.21	262.9	-667.0	506.5	482.5	23.97	21.127	
4,800.0	4,755.6	4,746.9	4,664.3	16.1	17.3	-111.28	267.4	-677.9	515.3	491.0	24.33	21.181	
4,845.0	4,800.6	4,790.6	4,706.7	16.1	17.5	-110.47	271.4	-687.6	523.3	498.7	24.65	21.230	
4,900.0	4,855.6	4,843.9	4,758.5	16.2	17.8	-109.50	276.3	-699.6	533.3	508.2	25.05	21.292	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,940.0	4,895.6	4,882.7	4,796.1	16.2	18.0	-108.83	279.9	-708.2	540.6	515.3	25.33	21.338	
5,000.0	4,955.6	4,941.0	4,852.6	16.2	18.2	-107.84	285.3	-721.2	551.7	526.0	25.77	21.409	
5,035.0	4,990.6	4,974.9	4,885.6	16.2	18.4	-107.29	288.4	-728.8	558.3	532.3	26.03	21.451	
5,100.0	5,055.6	5,038.0	4,946.8	16.3	18.7	-106.29	294.3	-742.9	570.6	544.1	26.50	21.532	
5,130.0	5,085.6	5,067.1	4,975.0	16.3	18.8	-105.84	297.0	-749.4	576.4	549.6	26.72	21.571	
5,200.0	5,155.6	5,135.0	5,040.9	16.3	19.2	-104.84	303.2	-764.6	589.9	562.6	27.23	21.662	
5,225.0	5,180.6	5,159.3	5,064.4	16.4	19.3	-104.49	305.5	-770.0	594.8	567.3	27.41	21.696	
5,300.0	5,255.6	5,232.0	5,135.1	16.4	19.6	-103.47	312.2	-786.3	609.5	581.5	27.96	21.799	
5,320.0	5,275.6	5,251.4	5,153.9	16.4	19.7	-103.21	314.0	-790.7	613.5	585.4	28.11	21.827	
5,400.0	5,355.6	5,329.1	5,229.2	16.5	20.1	-102.19	321.2	-808.0	629.4	600.8	28.69	21.941	
5,415.0	5,370.6	5,343.6	5,243.3	16.5	20.2	-102.01	322.5	-811.3	632.5	603.7	28.80	21.963	
5,500.0	5,455.6	5,426.1	5,323.3	16.5	20.5	-100.99	330.2	-829.7	649.7	620.3	29.41	22.089	
5,510.0	5,465.6	5,435.8	5,332.8	16.5	20.6	-100.87	331.1	-831.9	651.7	622.2	29.48	22.104	
5,600.0	5,555.6	5,523.1	5,417.5	16.6	21.0	-99.86	339.1	-851.4	670.2	640.0	30.13	22.242	
5,605.0	5,560.6	5,528.0	5,422.2	16.6	21.0	-99.80	339.6	-852.5	671.2	641.0	30.17	22.250	
5,700.0	5,655.6	5,620.2	5,511.6	16.6	21.5	-98.79	348.1	-873.1	690.9	660.0	30.84	22.399	
5,795.0	5,750.6	5,712.3	5,601.1	16.7	21.9	-97.84	356.6	-893.7	710.8	679.3	31.52	22.552	
5,800.0	5,755.6	5,717.2	5,605.8	16.7	21.9	-97.79	357.1	-894.8	711.8	680.3	31.55	22.560	
5,890.0	5,845.6	5,804.5	5,690.5	16.7	22.3	-96.94	365.1	-914.3	730.9	698.7	32.19	22.708	
5,900.0	5,855.6	5,814.2	5,699.9	16.8	22.4	-96.85	366.0	-916.5	733.0	700.7	32.26	22.724	
5,985.0	5,940.6	5,896.7	5,780.0	16.8	22.8	-96.08	373.7	-934.9	751.1	718.3	32.85	22.866	
6,000.0	5,955.6	5,911.3	5,794.1	16.8	22.9	-95.95	375.0	-938.1	754.3	721.4	32.95	22.891	
6,080.0	6,035.6	5,988.9	5,869.4	16.9	23.2	-95.27	382.2	-955.5	771.5	738.0	33.51	23.025	
6,100.0	6,055.6	6,008.3	5,888.2	16.9	23.3	-95.11	384.0	-959.8	775.8	742.2	33.64	23.059	
6,175.0	6,130.6	6,081.1	5,958.9	16.9	23.7	-94.50	390.7	-976.1	792.0	757.9	34.16	23.186	
6,200.0	6,155.6	6,105.3	5,982.4	16.9	23.8	-94.31	392.9	-981.5	797.5	763.1	34.33	23.229	
6,270.0	6,225.6	6,173.2	6,048.3	17.0	24.1	-93.77	399.2	-996.7	812.7	777.9	34.81	23.348	
6,300.0	6,255.6	6,202.3	6,076.5	17.0	24.3	-93.55	401.9	-1,003.2	819.3	784.3	35.01	23.399	
6,365.0	6,320.6	6,282.3	6,154.3	17.0	24.6	-92.97	409.0	-1,020.4	833.0	797.5	35.53	23.447	
6,400.0	6,355.6	6,328.8	6,199.8	17.0	24.9	-92.68	412.8	-1,029.6	839.8	804.0	35.81	23.450	
6,460.0	6,415.6	6,409.3	6,278.8	17.1	25.2	-92.24	418.7	-1,043.7	850.2	813.9	36.27	23.439	
6,500.0	6,455.6	6,463.5	6,332.2	17.1	25.5	-91.98	422.1	-1,052.1	856.3	819.7	36.55	23.425	
6,555.0	6,510.6	6,538.4	6,406.3	17.1	25.8	-91.68	426.3	-1,062.2	863.6	826.7	36.91	23.396	
6,600.0	6,555.6	6,600.2	6,467.6	17.2	26.1	-91.47	429.2	-1,069.1	868.6	831.4	37.18	23.363	
6,650.0	6,605.6	6,669.1	6,536.2	17.2	26.4	-91.29	431.8	-1,075.4	873.1	835.7	37.43	23.325	
6,700.0	6,655.6	6,738.3	6,605.2	17.2	26.6	-91.16	433.7	-1,080.2	876.5	838.9	37.65	23.280	
6,745.0	6,700.6	6,800.8	6,667.6	17.3	26.9	-91.07	435.0	-1,083.2	878.7	840.8	37.82	23.233	
6,800.0	6,755.6	6,877.4	6,744.1	17.3	27.1	-91.02	435.8	-1,085.1	880.0	842.1	37.95	23.192	
6,840.0	6,795.6	6,928.9	6,795.6	17.3	27.2	-91.01	435.9	-1,085.4	880.2	842.3	37.98	23.174	
6,900.0	6,855.6	6,988.9	6,855.6	17.4	27.2	-91.01	435.9	-1,085.4	880.2	842.2	38.05	23.134	
6,935.0	6,890.6	7,023.9	6,890.6	17.4	27.2	-91.01	435.9	-1,085.4	880.2	842.1	38.09	23.110	
7,000.0	6,955.6	7,088.9	6,955.6	17.4	27.2	-91.01	435.9	-1,085.4	880.2	842.1	38.16	23.065	
7,030.0	6,985.6	7,118.9	6,985.6	17.4	27.2	-91.01	435.9	-1,085.4	880.2	842.0	38.20	23.044	
7,100.0	7,055.6	7,188.9	7,055.6	17.5	27.3	-91.01	435.9	-1,085.4	880.2	842.0	38.28	22.995	
7,125.0	7,080.6	7,213.9	7,080.6	17.5	27.3	-91.01	435.9	-1,085.4	880.2	841.9	38.31	22.978	
7,200.0	7,155.6	7,288.9	7,155.6	17.5	27.3	-91.01	435.9	-1,085.4	880.2	841.8	38.40	22.926	
7,220.0	7,175.6	7,308.9	7,175.6	17.6	27.3	-91.01	435.9	-1,085.4	880.2	841.8	38.42	22.912	
7,300.0	7,255.6	7,388.9	7,255.6	17.6	27.3	-91.01	435.9	-1,085.4	880.2	841.7	38.51	22.857	
7,315.0	7,270.6	7,403.9	7,270.6	17.6	27.3	-91.01	435.9	-1,085.4	880.2	841.7	38.53	22.846	
7,400.0	7,355.6	7,488.9	7,355.6	17.7	27.4	-91.01	435.9	-1,085.4	880.2	841.6	38.63	22.788	
7,410.0	7,365.6	7,498.9	7,365.6	17.7	27.4	-91.01	435.9	-1,085.4	880.2	841.6	38.64	22.781	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.0	7,455.6	7,588.9	7,455.6	17.7	27.4	-91.01	435.9	-1,085.4	880.2	841.5	38.74	22.719	
7,505.0	7,460.6	7,593.9	7,460.6	17.7	27.4	-91.01	435.9	-1,085.4	880.2	841.5	38.75	22.716	
7,600.0	7,555.6	7,688.9	7,555.6	17.8	27.4	-91.01	435.9	-1,085.4	880.2	841.4	38.86	22.651	
7,695.0	7,650.6	7,783.9	7,650.6	17.8	27.5	-91.01	435.9	-1,085.4	880.2	841.3	38.97	22.587	
7,700.0	7,655.6	7,788.9	7,655.6	17.8	27.5	-91.01	435.9	-1,085.4	880.2	841.3	38.98	22.583	
7,790.0	7,745.6	7,878.9	7,745.6	17.9	27.5	-91.01	435.9	-1,085.4	880.2	841.2	39.08	22.522	
7,800.0	7,755.6	7,888.9	7,755.6	17.9	27.5	-91.01	435.9	-1,085.4	880.2	841.1	39.09	22.516	
7,885.0	7,840.6	7,973.9	7,840.6	18.0	27.5	-91.01	435.9	-1,085.4	880.2	841.0	39.19	22.458	
7,900.0	7,855.6	7,988.9	7,855.6	18.0	27.5	-91.01	435.9	-1,085.4	880.2	841.0	39.21	22.448	
7,980.0	7,935.6	8,068.9	7,935.6	18.0	27.5	-91.01	435.9	-1,085.4	880.2	840.9	39.31	22.395	
8,000.0	7,955.6	8,088.9	7,955.6	18.0	27.6	-91.01	435.9	-1,085.4	880.2	840.9	39.33	22.381	
8,075.0	8,030.6	8,163.9	8,030.6	18.1	27.6	-91.01	435.9	-1,085.4	880.2	840.8	39.42	22.331	
8,100.0	8,055.6	8,188.9	8,055.6	18.1	27.6	-91.01	435.9	-1,085.4	880.2	840.8	39.45	22.315	
8,170.0	8,125.6	8,258.9	8,125.6	18.1	27.6	-91.01	435.9	-1,085.4	880.2	840.7	39.53	22.268	
8,200.0	8,155.6	8,288.9	8,155.6	18.2	27.6	-91.01	435.9	-1,085.4	880.2	840.7	39.56	22.248	
8,265.0	8,220.6	8,353.9	8,220.6	18.2	27.6	-91.01	435.9	-1,085.4	880.2	840.6	39.64	22.205	
8,300.0	8,255.6	8,388.9	8,255.6	18.2	27.7	-91.01	435.9	-1,085.4	880.2	840.6	39.68	22.182	
8,360.0	8,315.6	8,448.9	8,315.6	18.3	27.7	-91.01	435.9	-1,085.4	880.2	840.5	39.75	22.142	
8,400.0	8,355.6	8,488.9	8,355.6	18.3	27.7	-91.01	435.9	-1,085.4	880.2	840.4	39.80	22.116	
8,455.0	8,410.6	8,543.9	8,410.6	18.3	27.7	-91.01	435.9	-1,085.4	880.2	840.4	39.87	22.080	
8,500.0	8,455.6	8,588.9	8,455.6	18.4	27.7	-91.01	435.9	-1,085.4	880.2	840.3	39.92	22.050	
8,550.0	8,505.6	8,638.9	8,505.6	18.4	27.7	-91.01	435.9	-1,085.4	880.2	840.3	39.98	22.018	
8,600.0	8,555.6	8,688.9	8,555.6	18.4	27.8	-91.01	435.9	-1,085.4	880.2	840.2	40.04	21.985	
8,645.0	8,600.6	8,733.9	8,600.6	18.4	27.8	-91.01	435.9	-1,085.4	880.2	840.1	40.09	21.956	
8,700.0	8,655.6	8,788.9	8,655.6	18.5	27.8	-91.01	435.9	-1,085.4	880.2	840.1	40.16	21.920	
8,740.0	8,695.6	8,828.9	8,695.6	18.5	27.8	-91.01	435.9	-1,085.4	880.2	840.0	40.20	21.894	
8,800.0	8,755.6	8,888.9	8,755.6	18.5	27.8	-91.01	435.9	-1,085.4	880.2	840.0	40.28	21.855	
8,835.0	8,790.6	8,923.9	8,790.6	18.6	27.8	-91.01	435.9	-1,085.4	880.2	839.9	40.32	21.832	
8,900.0	8,855.6	8,988.9	8,855.6	18.6	27.9	-91.01	435.9	-1,085.4	880.2	839.8	40.40	21.790	
8,930.0	8,885.6	9,018.9	8,885.6	18.6	27.9	-91.01	435.9	-1,085.4	880.2	839.8	40.43	21.771	
9,000.0	8,955.6	9,088.9	8,955.6	18.7	27.9	-91.01	435.9	-1,085.4	880.2	839.7	40.51	21.726	
9,025.0	8,980.6	9,113.9	8,980.6	18.7	27.9	-91.01	435.9	-1,085.4	880.2	839.7	40.54	21.710	
9,100.0	9,055.6	9,188.9	9,055.6	18.7	27.9	-91.01	435.9	-1,085.4	880.2	839.6	40.63	21.662	
9,120.0	9,075.6	9,208.9	9,075.6	18.8	27.9	-91.01	435.9	-1,085.4	880.2	839.6	40.66	21.649	
9,200.0	9,155.6	9,288.9	9,155.6	18.8	28.0	-91.01	435.9	-1,085.4	880.2	839.5	40.75	21.599	
9,215.0	9,170.6	9,303.9	9,170.6	18.8	28.0	-91.01	435.9	-1,085.4	880.2	839.5	40.77	21.592	
9,218.1	9,173.7	9,307.0	9,173.7	18.8	28.0	-91.01	435.9	-1,085.4	880.2	839.5	40.77	21.590	
9,257.4	9,213.0	9,345.5	9,213.0	18.8	28.0	-91.03	435.6	-1,085.4	880.2	839.4	40.80	21.576	
9,300.0	9,255.6	9,386.4	9,253.0	18.9	28.0	88.41	432.7	-1,085.4	880.3	839.5	40.81	21.571	
9,310.0	9,265.6	9,396.0	9,262.6	18.9	28.0	88.39	431.7	-1,085.4	880.3	839.5	40.81	21.571	
9,350.0	9,305.2	9,434.2	9,300.4	18.9	28.0	88.31	425.8	-1,085.5	880.3	839.5	40.81	21.569	
9,400.0	9,354.2	9,482.0	9,346.9	19.0	28.0	88.23	414.9	-1,085.6	880.4	839.5	40.82	21.566	
9,405.0	9,359.0	9,486.8	9,351.5	19.0	28.0	88.22	413.6	-1,085.6	880.4	839.5	40.82	21.566	
9,450.0	9,402.0	9,529.7	9,392.2	19.1	28.0	88.16	400.2	-1,085.7	880.4	839.6	40.83	21.563	
9,500.0	9,448.5	9,577.3	9,436.1	19.1	28.0	88.11	381.8	-1,085.8	880.4	839.6	40.84	21.559	
9,550.0	9,493.1	9,624.9	9,478.3	19.2	28.1	88.07	359.8	-1,086.0	880.4	839.6	40.85	21.553	
9,595.0	9,531.4	9,667.6	9,514.6	19.2	28.1	88.04	337.2	-1,086.2	880.5	839.6	40.86	21.546	
9,600.0	9,535.6	9,672.4	9,518.5	19.3	28.1	88.04	334.5	-1,086.2	880.5	839.6	40.87	21.545	
9,650.0	9,575.6	9,719.9	9,556.4	19.3	28.1	88.03	305.9	-1,086.5	880.5	839.6	40.89	21.535	
9,690.0	9,605.7	9,757.9	9,585.0	19.4	28.1	88.03	280.9	-1,086.7	880.5	839.6	40.91	21.524	
9,700.0	9,612.9	9,767.4	9,591.8	19.4	28.1	88.03	274.3	-1,086.7	880.5	839.5	40.91	21.521	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		
9,750.0	9,647.2	9,814.9	9,624.5	19.4	28.1	88.04	239.9	-1,087.0	880.5	839.5	40.95	21.503		
9,785.0	9,669.2	9,848.1	9,645.7	19.5	28.2	88.06	214.2	-1,087.2	880.4	839.5	40.97	21.488		
9,800.0	9,678.1	9,862.4	9,654.3	19.5	28.2	88.07	202.8	-1,087.3	880.4	839.4	40.99	21.481		
9,850.0	9,705.5	9,910.0	9,680.9	19.6	28.2	88.12	163.4	-1,087.7	880.4	839.4	41.04	21.453		
9,880.0	9,720.2	9,938.5	9,695.3	19.6	28.2	88.15	138.7	-1,087.9	880.4	839.3	41.08	21.434		
9,900.0	9,729.1	9,957.6	9,704.1	19.6	28.2	88.18	121.9	-1,088.0	880.4	839.3	41.10	21.421		
9,950.0	9,748.9	10,005.3	9,723.9	19.6	28.3	88.25	78.5	-1,088.4	880.4	839.2	41.17	21.382		
9,975.0	9,757.2	10,029.2	9,732.4	19.7	28.3	88.29	56.2	-1,088.5	880.3	839.1	41.21	21.360		
10,000.0	9,764.5	10,053.1	9,740.0	19.7	28.3	88.33	33.5	-1,088.7	880.3	839.1	41.25	21.339		
10,050.0	9,776.0	10,100.0	9,752.1	19.7	28.3	88.42	-11.8	-1,089.1	880.3	838.9	41.36	21.283		
10,070.0	9,779.3	10,120.2	9,756.2	19.7	28.4	88.47	-31.5	-1,089.3	880.3	838.9	41.39	21.268		
10,072.1	9,779.7	10,122.2	9,756.6	19.7	28.4	88.47	-33.5	-1,089.3	880.3	838.9	41.39	21.265		
10,100.0	9,783.1	10,149.0	9,760.8	19.7	28.4	88.53	-60.0	-1,089.5	880.2	838.8	41.45	21.236		
10,150.0	9,786.0	10,197.1	9,765.3	19.8	28.4	88.65	-107.9	-1,089.9	880.2	838.6	41.56	21.177		
10,157.1	9,786.0	10,204.0	9,765.6	19.8	28.4	88.67	-114.8	-1,090.0	880.2	838.6	41.58	21.169		
10,165.0	9,786.0	10,211.6	9,765.8	19.8	28.4	88.69	-122.4	-1,090.0	880.2	838.6	41.60	21.159		
10,200.0	9,786.0	10,246.1	9,766.0	19.8	28.5	88.70	-156.9	-1,090.3	880.2	838.5	41.68	21.115		
10,200.2	9,786.0	10,246.3	9,766.0	19.8	28.5	88.70	-157.0	-1,090.3	880.2	838.5	41.68	21.115		
10,260.0	9,786.1	10,306.1	9,766.1	19.8	28.6	88.70	-216.9	-1,090.8	880.2	838.3	41.85	21.029		
10,300.0	9,786.1	10,346.1	9,766.1	19.8	28.6	88.70	-256.9	-1,091.1	880.2	838.2	41.98	20.968		
10,355.0	9,786.1	10,401.1	9,766.1	19.9	28.7	88.70	-311.9	-1,091.6	880.2	838.0	42.16	20.875		
10,400.0	9,786.1	10,446.1	9,766.2	19.9	28.7	88.70	-356.9	-1,092.0	880.2	837.8	42.33	20.795		
10,450.0	9,786.2	10,496.1	9,766.2	19.9	28.8	88.70	-406.9	-1,092.4	880.2	837.6	42.52	20.698		
10,500.0	9,786.2	10,546.1	9,766.2	19.9	28.9	88.70	-456.9	-1,092.8	880.2	837.4	42.73	20.598		
10,545.0	9,786.2	10,591.1	9,766.3	20.0	29.0	88.70	-501.9	-1,093.2	880.2	837.2	42.93	20.501		
10,600.0	9,786.2	10,646.1	9,766.3	20.0	29.1	88.70	-556.9	-1,093.6	880.2	837.0	43.19	20.379		
10,640.0	9,786.3	10,686.1	9,766.3	20.0	29.1	88.70	-596.9	-1,093.9	880.2	836.8	43.39	20.285		
10,700.0	9,786.3	10,746.1	9,766.4	20.1	29.3	88.70	-656.9	-1,094.4	880.2	836.5	43.70	20.141		
10,735.0	9,786.3	10,781.1	9,766.4	20.1	29.3	88.70	-691.9	-1,094.7	880.2	836.3	43.89	20.053		
10,800.0	9,786.3	10,846.1	9,766.4	20.2	29.5	88.71	-756.9	-1,095.3	880.2	835.9	44.26	19.887		
10,830.0	9,786.4	10,876.1	9,766.5	20.2	29.5	88.71	-786.9	-1,095.5	880.2	835.7	44.44	19.807		
10,900.0	9,786.4	10,946.1	9,766.5	20.3	29.7	88.71	-856.9	-1,096.1	880.2	835.3	44.86	19.619		
10,925.0	9,786.4	10,971.1	9,766.5	20.3	29.7	88.71	-881.9	-1,096.3	880.2	835.1	45.02	19.549		
11,000.0	9,786.4	11,046.1	9,766.6	20.4	29.9	88.71	-956.8	-1,096.9	880.2	834.6	45.51	19.339		
11,020.0	9,786.5	11,066.1	9,766.6	20.4	30.0	88.71	-976.8	-1,097.1	880.2	834.5	45.65	19.281		
11,100.0	9,786.5	11,146.1	9,766.7	20.5	30.2	88.71	-1,056.8	-1,097.7	880.2	833.9	46.20	19.049		
11,115.0	9,786.5	11,161.1	9,766.7	20.6	30.2	88.71	-1,071.8	-1,097.9	880.2	833.8	46.31	19.005		
11,200.0	9,786.5	11,246.1	9,766.7	20.7	30.4	88.71	-1,156.8	-1,098.6	880.2	833.2	46.94	18.752		
11,210.0	9,786.6	11,256.1	9,766.7	20.7	30.5	88.71	-1,166.8	-1,098.7	880.2	833.1	47.01	18.722		
11,300.0	9,786.6	11,346.1	9,766.8	20.9	30.7	88.71	-1,256.8	-1,099.4	880.2	832.4	47.71	18.450		
11,305.0	9,786.6	11,351.1	9,766.8	20.9	30.7	88.71	-1,261.8	-1,099.4	880.2	832.4	47.75	18.434		
11,400.0	9,786.7	11,446.1	9,766.9	21.1	31.0	88.71	-1,356.8	-1,100.2	880.2	831.6	48.51	18.144		
11,495.0	9,786.7	11,541.1	9,767.0	21.4	31.3	88.71	-1,451.8	-1,101.0	880.1	830.8	49.31	17.850		
11,500.0	9,786.7	11,546.1	9,767.0	21.4	31.3	88.71	-1,456.8	-1,101.1	880.1	830.8	49.35	17.835		
11,590.0	9,786.8	11,636.1	9,767.0	21.6	31.6	88.72	-1,546.8	-1,101.8	880.1	830.0	50.13	17.557		
11,600.0	9,786.8	11,646.1	9,767.0	21.7	31.6	88.72	-1,556.8	-1,101.9	880.1	829.9	50.22	17.526		
11,685.0	9,786.8	11,731.1	9,767.1	21.9	31.9	88.72	-1,641.8	-1,102.6	880.1	829.2	50.98	17.263		
11,700.0	9,786.8	11,746.1	9,767.1	22.0	32.0	88.72	-1,656.8	-1,102.7	880.1	829.0	51.12	17.217		
11,780.0	9,786.9	11,826.1	9,767.2	22.3	32.2	88.72	-1,736.8	-1,103.4	880.1	828.3	51.86	16.971		
11,800.0	9,786.9	11,846.1	9,767.2	22.4	32.3	88.72	-1,756.8	-1,103.5	880.1	828.1	52.05	16.909		
11,875.0	9,786.9	11,921.1	9,767.2	22.7	32.6	88.72	-1,831.8	-1,104.2	880.1	827.4	52.77	16.680		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
11,900.0	9,786.9	11,946.1	9,767.2	22.8	32.7	88.72	-1,856.8	-1,104.4	880.1	827.1	53.01	16.604	
11,970.0	9,787.0	12,016.1	9,767.3	23.1	32.9	88.72	-1,926.8	-1,104.9	880.1	826.5	53.69	16.392	
12,000.0	9,787.0	12,046.1	9,767.3	23.2	33.0	88.72	-1,956.8	-1,105.2	880.1	826.2	53.99	16.302	
12,065.0	9,787.0	12,111.1	9,767.4	23.5	33.3	88.72	-2,021.8	-1,105.7	880.1	825.5	54.64	16.108	
12,100.0	9,787.0	12,146.1	9,767.4	23.7	33.4	88.72	-2,056.8	-1,106.0	880.1	825.1	55.00	16.004	
12,160.0	9,787.0	12,206.1	9,767.4	24.0	33.7	88.72	-2,116.8	-1,106.5	880.1	824.5	55.61	15.827	
12,200.0	9,787.1	12,246.1	9,767.5	24.2	33.8	88.72	-2,156.8	-1,106.8	880.1	824.1	56.02	15.710	
12,255.0	9,787.1	12,301.1	9,767.5	24.5	34.0	88.72	-2,211.8	-1,107.3	880.1	823.5	56.60	15.551	
12,300.0	9,787.1	12,346.1	9,767.5	24.7	34.2	88.72	-2,256.8	-1,107.7	880.1	823.1	57.07	15.421	
12,350.0	9,787.1	12,396.1	9,767.6	25.0	34.4	88.73	-2,306.8	-1,108.1	880.1	822.5	57.61	15.279	
12,400.0	9,787.2	12,446.1	9,767.6	25.3	34.6	88.73	-2,356.8	-1,108.5	880.1	822.0	58.14	15.137	
12,445.0	9,787.2	12,491.1	9,767.6	25.6	34.8	88.73	-2,401.8	-1,108.9	880.1	821.5	58.63	15.011	
12,500.0	9,787.2	12,546.1	9,767.7	25.9	35.1	88.73	-2,456.8	-1,109.3	880.1	820.9	59.23	14.859	
12,540.0	9,787.2	12,586.1	9,767.7	26.1	35.3	88.73	-2,496.8	-1,109.7	880.1	820.5	59.67	14.749	
12,600.0	9,787.3	12,646.1	9,767.8	26.5	35.5	88.73	-2,556.8	-1,110.1	880.1	819.8	60.34	14.586	
12,635.0	9,787.3	12,681.1	9,767.8	26.7	35.7	88.73	-2,591.8	-1,110.4	880.1	819.4	60.73	14.492	
12,700.0	9,787.3	12,746.1	9,767.8	27.0	36.0	88.73	-2,656.8	-1,111.0	880.1	818.7	61.47	14.319	
12,730.0	9,787.3	12,776.1	9,767.8	27.2	36.1	88.73	-2,686.8	-1,111.2	880.1	818.3	61.81	14.240	
12,800.0	9,787.4	12,846.1	9,767.9	27.7	36.4	88.73	-2,756.8	-1,111.8	880.1	817.5	62.61	14.058	
12,825.0	9,787.4	12,871.1	9,767.9	27.8	36.6	88.73	-2,781.8	-1,112.0	880.1	817.2	62.90	13.994	
12,900.0	9,787.4	12,946.1	9,768.0	28.3	36.9	88.73	-2,856.8	-1,112.6	880.1	816.4	63.76	13.803	
12,920.0	9,787.4	12,966.1	9,768.0	28.4	37.0	88.73	-2,876.8	-1,112.8	880.1	816.1	64.00	13.753	
13,000.0	9,787.5	13,046.1	9,768.0	28.9	37.4	88.73	-2,956.8	-1,113.5	880.1	815.2	64.93	13.554	
13,015.0	9,787.5	13,061.1	9,768.1	29.0	37.5	88.73	-2,971.8	-1,113.6	880.1	815.0	65.11	13.517	
13,100.0	9,787.5	13,146.1	9,768.1	29.5	37.9	88.73	-3,056.8	-1,114.3	880.1	814.0	66.12	13.311	
13,110.0	9,787.5	13,156.1	9,768.1	29.6	37.9	88.74	-3,066.8	-1,114.4	880.1	813.9	66.24	13.287	
13,200.0	9,787.6	13,246.1	9,768.2	30.2	38.4	88.74	-3,156.8	-1,115.1	880.1	812.8	67.32	13.074	
13,205.0	9,787.6	13,251.1	9,768.2	30.2	38.4	88.74	-3,161.8	-1,115.2	880.1	812.8	67.38	13.062	
13,300.0	9,787.6	13,346.1	9,768.3	30.8	38.9	88.74	-3,256.8	-1,115.9	880.1	811.6	68.53	12.843	
13,395.0	9,787.7	13,441.1	9,768.3	31.5	39.4	88.74	-3,351.8	-1,116.7	880.1	810.4	69.69	12.629	
13,400.0	9,787.7	13,446.1	9,768.3	31.5	39.4	88.74	-3,356.8	-1,116.8	880.1	810.4	69.75	12.618	
13,490.0	9,787.7	13,536.1	9,768.4	32.1	39.9	88.74	-3,446.8	-1,117.5	880.1	809.3	70.86	12.420	
13,500.0	9,787.8	13,546.1	9,768.4	32.2	39.9	88.74	-3,456.8	-1,117.6	880.1	809.1	70.99	12.399	
13,585.0	9,787.8	13,631.1	9,768.5	32.7	40.4	88.74	-3,541.8	-1,118.3	880.1	808.1	72.04	12.217	
13,600.0	9,787.8	13,646.1	9,768.5	32.8	40.5	88.74	-3,556.8	-1,118.4	880.1	807.9	72.23	12.185	
13,680.0	9,787.8	13,726.1	9,768.5	33.4	40.9	88.74	-3,636.8	-1,119.1	880.1	806.9	73.23	12.018	
13,700.0	9,787.9	13,746.1	9,768.5	33.5	41.0	88.74	-3,656.8	-1,119.2	880.1	806.6	73.48	11.977	
13,775.0	9,787.9	13,821.1	9,768.6	34.0	41.4	88.74	-3,731.8	-1,119.9	880.1	805.7	74.43	11.824	
13,800.0	9,787.9	13,846.1	9,768.6	34.2	41.6	88.74	-3,756.8	-1,120.1	880.1	805.4	74.75	11.774	
13,870.0	9,787.9	13,916.1	9,768.7	34.7	42.0	88.74	-3,826.8	-1,120.7	880.1	804.5	75.64	11.636	
13,900.0	9,788.0	13,946.1	9,768.7	34.9	42.1	88.75	-3,856.7	-1,120.9	880.1	804.1	76.02	11.577	
13,965.0	9,788.0	14,011.1	9,768.7	35.3	42.5	88.75	-3,921.7	-1,121.4	880.1	803.3	76.86	11.452	
14,000.0	9,788.0	14,046.1	9,768.8	35.6	42.7	88.75	-3,956.7	-1,121.7	880.1	802.8	77.31	11.385	
14,060.0	9,788.0	14,106.1	9,768.8	36.0	43.0	88.75	-4,016.7	-1,122.2	880.1	802.0	78.08	11.272	
14,100.0	9,788.1	14,146.1	9,768.8	36.3	43.3	88.75	-4,056.7	-1,122.6	880.1	801.5	78.60	11.198	
14,155.0	9,788.1	14,201.1	9,768.9	36.6	43.6	88.75	-4,111.7	-1,123.0	880.1	800.8	79.31	11.097	
14,200.0	9,788.1	14,246.1	9,768.9	37.0	43.8	88.75	-4,156.7	-1,123.4	880.1	800.2	79.90	11.016	
14,250.0	9,788.1	14,296.1	9,768.9	37.3	44.1	88.75	-4,206.7	-1,123.8	880.1	799.6	80.55	10.927	
14,300.0	9,788.2	14,346.1	9,769.0	37.7	44.4	88.75	-4,256.7	-1,124.2	880.1	798.9	81.20	10.839	
14,345.0	9,788.2	14,391.1	9,769.0	38.0	44.7	88.75	-4,301.7	-1,124.6	880.1	798.3	81.79	10.760	
14,400.0	9,788.2	14,446.1	9,769.1	38.4	45.0	88.75	-4,356.7	-1,125.0	880.1	797.6	82.52	10.666	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
14,440.0	9,788.2	14,486.1	9,769.1	38.6	45.2	88.75	-4,396.7	-1,125.4	880.1	797.1	83.04	10.598
14,500.0	9,788.3	14,546.1	9,769.1	39.1	45.6	88.75	-4,456.7	-1,125.9	880.1	796.3	83.84	10.498
14,535.0	9,788.3	14,581.1	9,769.2	39.3	45.8	88.75	-4,491.7	-1,126.2	880.1	795.8	84.30	10.440
14,600.0	9,788.3	14,646.1	9,769.2	39.8	46.2	88.75	-4,556.7	-1,126.7	880.1	794.9	85.16	10.334
14,630.0	9,788.3	14,676.1	9,769.2	40.0	46.4	88.75	-4,586.7	-1,126.9	880.1	794.5	85.56	10.286
14,700.0	9,788.4	14,746.1	9,769.3	40.5	46.8	88.76	-4,656.7	-1,127.5	880.1	793.6	86.50	10.175
14,725.0	9,788.4	14,771.1	9,769.3	40.6	47.0	88.76	-4,681.7	-1,127.7	880.1	793.3	86.83	10.136
14,800.0	9,788.4	14,846.1	9,769.3	41.2	47.4	88.76	-4,756.7	-1,128.3	880.1	792.3	87.84	10.020
14,820.0	9,788.4	14,866.1	9,769.4	41.3	47.5	88.76	-4,776.7	-1,128.5	880.1	792.0	88.11	9.989
14,900.0	9,788.5	14,946.1	9,769.4	41.9	48.0	88.76	-4,856.7	-1,129.2	880.1	790.9	89.18	9.868
14,915.0	9,788.5	14,961.1	9,769.4	42.0	48.1	88.76	-4,871.7	-1,129.3	880.1	790.7	89.39	9.846
15,000.0	9,788.5	15,046.1	9,769.5	42.6	48.6	88.76	-4,956.7	-1,130.0	880.1	789.6	90.54	9.721
15,010.0	9,788.5	15,056.1	9,769.5	42.7	48.7	88.76	-4,966.7	-1,130.1	880.1	789.4	90.67	9.707
15,100.0	9,788.6	15,146.1	9,769.6	43.3	49.3	88.76	-5,056.7	-1,130.8	880.1	788.2	91.89	9.578
15,105.0	9,788.6	15,151.1	9,769.6	43.4	49.3	88.76	-5,061.7	-1,130.9	880.1	788.1	91.96	9.571
15,200.0	9,788.6	15,246.1	9,769.6	44.0	49.9	88.76	-5,156.7	-1,131.7	880.1	786.9	93.25	9.438
15,295.0	9,788.7	15,341.1	9,769.7	44.7	50.5	88.76	-5,251.7	-1,132.4	880.1	785.6	94.55	9.308
15,300.0	9,788.7	15,346.1	9,769.7	44.8	50.5	88.76	-5,256.7	-1,132.5	880.1	785.5	94.62	9.301
15,390.0	9,788.7	15,436.1	9,769.8	45.4	51.1	88.76	-5,346.7	-1,133.2	880.1	784.2	95.85	9.182
15,400.0	9,788.7	15,446.1	9,769.8	45.5	51.1	88.76	-5,356.7	-1,133.3	880.1	784.1	95.99	9.169
15,485.0	9,788.8	15,531.1	9,769.8	46.1	51.7	88.77	-5,441.7	-1,134.0	880.1	782.9	97.16	9.058
15,500.0	9,788.8	15,546.1	9,769.8	46.2	51.8	88.77	-5,456.7	-1,134.1	880.1	782.7	97.37	9.039
15,580.0	9,788.8	15,626.1	9,769.9	46.8	52.3	88.77	-5,536.7	-1,134.8	880.1	781.6	98.47	8.938
15,600.0	9,788.9	15,646.1	9,769.9	46.9	52.4	88.77	-5,556.7	-1,135.0	880.1	781.4	98.75	8.913
15,675.0	9,788.9	15,721.1	9,770.0	47.5	52.9	88.77	-5,631.7	-1,135.6	880.1	780.3	99.79	8.820
15,700.0	9,788.9	15,746.1	9,770.0	47.6	53.1	88.77	-5,656.7	-1,135.8	880.1	780.0	100.13	8.789
15,770.0	9,788.9	15,816.1	9,770.0	48.2	53.5	88.77	-5,726.7	-1,136.4	880.1	779.0	101.10	8.705
15,800.0	9,789.0	15,846.1	9,770.1	48.4	53.7	88.77	-5,756.7	-1,136.6	880.1	778.6	101.52	8.669
15,865.0	9,789.0	15,911.1	9,770.1	48.8	54.1	88.77	-5,821.7	-1,137.2	880.1	777.7	102.42	8.593
15,900.0	9,789.0	15,946.1	9,770.1	49.1	54.4	88.77	-5,856.7	-1,137.4	880.1	777.2	102.91	8.552
15,960.0	9,789.0	16,006.1	9,770.2	49.5	54.8	88.77	-5,916.7	-1,137.9	880.1	776.3	103.75	8.483
16,000.0	9,789.1	16,046.1	9,770.2	49.8	55.0	88.77	-5,956.7	-1,138.3	880.1	775.8	104.31	8.437
16,055.0	9,789.1	16,101.1	9,770.3	50.2	55.4	88.77	-6,011.7	-1,138.7	880.1	775.0	105.08	8.376
16,100.0	9,789.1	16,146.1	9,770.3	50.6	55.7	88.77	-6,056.7	-1,139.1	880.1	774.4	105.71	8.326
16,150.0	9,789.1	16,196.1	9,770.3	50.9	56.0	88.77	-6,106.7	-1,139.5	880.1	773.7	106.41	8.271
16,200.0	9,789.2	16,246.1	9,770.4	51.3	56.3	88.78	-6,156.7	-1,139.9	880.1	773.0	107.11	8.217
16,245.0	9,789.2	16,291.1	9,770.4	51.6	56.6	88.78	-6,201.7	-1,140.3	880.1	772.4	107.74	8.168
16,300.0	9,789.2	16,346.1	9,770.4	52.0	57.0	88.78	-6,256.7	-1,140.7	880.1	771.6	108.52	8.110
16,340.0	9,789.2	16,386.1	9,770.5	52.3	57.3	88.78	-6,296.7	-1,141.1	880.1	771.0	109.08	8.068
16,400.0	9,789.3	16,446.1	9,770.5	52.8	57.7	88.78	-6,356.7	-1,141.6	880.1	770.2	109.93	8.006
16,435.0	9,789.3	16,481.1	9,770.5	53.0	57.9	88.78	-6,391.7	-1,141.9	880.1	769.7	110.42	7.970
16,500.0	9,789.3	16,546.1	9,770.6	53.5	58.3	88.78	-6,456.7	-1,142.4	880.1	768.8	111.34	7.905
16,530.0	9,789.3	16,576.1	9,770.6	53.7	58.5	88.78	-6,486.7	-1,142.6	880.1	768.3	111.76	7.875
16,600.0	9,789.4	16,646.1	9,770.6	54.2	59.0	88.78	-6,556.7	-1,143.2	880.1	767.3	112.75	7.805
16,625.0	9,789.4	16,671.1	9,770.7	54.4	59.2	88.78	-6,581.7	-1,143.4	880.1	767.0	113.11	7.781
16,700.0	9,789.4	16,746.1	9,770.7	55.0	59.7	88.78	-6,656.7	-1,144.1	880.1	765.9	114.17	7.708
16,720.0	9,789.4	16,766.1	9,770.7	55.1	59.8	88.78	-6,676.7	-1,144.2	880.1	765.6	114.46	7.689
16,800.0	9,789.5	16,846.1	9,770.8	55.7	60.3	88.78	-6,756.7	-1,144.9	880.1	764.5	115.59	7.614
16,815.0	9,789.5	16,861.1	9,770.8	55.8	60.4	88.78	-6,771.6	-1,145.0	880.1	764.3	115.81	7.600
16,900.0	9,789.5	16,946.1	9,770.9	56.4	61.0	88.78	-6,856.6	-1,145.7	880.1	763.1	117.02	7.521
16,910.0	9,789.5	16,956.1	9,770.9	56.5	61.1	88.78	-6,866.6	-1,145.8	880.1	762.9	117.16	7.512

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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: 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		
17,000.0	9,789.6	17,046.1	9,770.9	57.2	61.7	88.79	-6,956.6	-1,146.5	880.1	761.6	118.44	7.430		
17,005.0	9,789.6	17,051.1	9,770.9	57.2	61.7	88.79	-6,961.6	-1,146.6	880.1	761.6	118.51	7.426		
17,100.0	9,789.6	17,146.1	9,771.0	57.9	62.4	88.79	-7,056.6	-1,147.4	880.1	760.2	119.87	7.342		
17,195.0	9,789.7	17,241.1	9,771.1	58.6	63.0	88.79	-7,151.6	-1,148.1	880.1	758.9	121.23	7.260		
17,200.0	9,789.7	17,246.1	9,771.1	58.6	63.1	88.79	-7,156.6	-1,148.2	880.1	758.8	121.30	7.255		
17,290.0	9,789.7	17,336.1	9,771.1	59.3	63.7	88.79	-7,246.6	-1,148.9	880.1	757.5	122.59	7.179		
17,300.0	9,789.7	17,346.1	9,771.2	59.4	63.7	88.79	-7,256.6	-1,149.0	880.1	757.3	122.74	7.171		
17,385.0	9,789.8	17,431.1	9,771.2	60.0	64.3	88.79	-7,341.6	-1,149.7	880.1	756.1	123.96	7.100		
17,400.0	9,789.8	17,446.1	9,771.2	60.1	64.4	88.79	-7,356.6	-1,149.8	880.1	755.9	124.17	7.088		
17,480.0	9,789.8	17,526.1	9,771.3	60.7	65.0	88.79	-7,436.6	-1,150.5	880.1	754.8	125.32	7.023		
17,500.0	9,789.9	17,546.1	9,771.3	60.9	65.1	88.79	-7,456.6	-1,150.7	880.1	754.5	125.61	7.007		
17,575.0	9,789.9	17,621.1	9,771.3	61.4	65.6	88.79	-7,531.6	-1,151.3	880.1	753.4	126.69	6.947		
17,600.0	9,789.9	17,646.1	9,771.4	61.6	65.8	88.79	-7,556.6	-1,151.5	880.1	753.0	127.05	6.927		
17,670.0	9,789.9	17,716.1	9,771.4	62.1	66.3	88.79	-7,626.6	-1,152.1	880.1	752.0	128.06	6.873		
17,700.0	9,790.0	17,746.1	9,771.4	62.4	66.5	88.79	-7,656.6	-1,152.3	880.1	751.6	128.49	6.849		
17,765.0	9,790.0	17,811.1	9,771.5	62.8	67.0	88.80	-7,721.6	-1,152.9	880.1	750.6	129.43	6.800		
17,800.0	9,790.0	17,846.1	9,771.5	63.1	67.2	88.80	-7,756.6	-1,153.2	880.1	750.1	129.93	6.773		
17,860.0	9,790.0	17,906.1	9,771.6	63.5	67.6	88.80	-7,816.6	-1,153.6	880.1	749.3	130.80	6.728		
17,900.0	9,790.1	17,946.1	9,771.6	63.8	67.9	88.80	-7,856.6	-1,154.0	880.1	748.7	131.38	6.699		
17,955.0	9,790.1	18,001.1	9,771.6	64.3	68.3	88.80	-7,911.6	-1,154.4	880.1	747.9	132.17	6.658		
18,000.0	9,790.1	18,046.1	9,771.7	64.6	68.6	88.80	-7,956.6	-1,154.8	880.1	747.2	132.83	6.626		
18,050.0	9,790.1	18,096.1	9,771.7	65.0	68.9	88.80	-8,006.6	-1,155.2	880.1	746.5	133.55	6.590		
18,100.0	9,790.2	18,146.1	9,771.7	65.3	69.3	88.80	-8,056.6	-1,155.6	880.1	745.8	134.27	6.554		
18,145.0	9,790.2	18,191.1	9,771.8	65.7	69.6	88.80	-8,101.6	-1,156.0	880.1	745.1	134.93	6.523		
18,200.0	9,790.2	18,246.1	9,771.8	66.1	70.0	88.80	-8,156.6	-1,156.5	880.1	744.3	135.73	6.484		
18,240.0	9,790.2	18,286.1	9,771.8	66.4	70.3	88.80	-8,196.6	-1,156.8	880.1	743.8	136.31	6.457		
18,300.0	9,790.3	18,346.1	9,771.9	66.8	70.7	88.80	-8,256.6	-1,157.3	880.1	742.9	137.18	6.416		
18,335.0	9,790.3	18,381.1	9,771.9	67.1	70.9	88.80	-8,291.6	-1,157.6	880.1	742.4	137.69	6.392		
18,400.0	9,790.3	18,446.1	9,771.9	67.6	71.4	88.80	-8,356.6	-1,158.1	880.1	741.4	138.63	6.348		
18,430.0	9,790.3	18,476.1	9,772.0	67.8	71.6	88.80	-8,386.6	-1,158.4	880.1	741.0	139.07	6.328		
18,500.0	9,790.4	18,546.1	9,772.0	68.3	72.1	88.80	-8,456.6	-1,158.9	880.1	740.0	140.09	6.282		
18,525.0	9,790.4	18,571.1	9,772.0	68.5	72.3	88.81	-8,481.6	-1,159.1	880.1	739.6	140.45	6.266		
18,600.0	9,790.4	18,646.1	9,772.1	69.1	72.8	88.81	-8,556.6	-1,159.8	880.1	738.5	141.54	6.218		
18,620.0	9,790.4	18,666.1	9,772.1	69.2	72.9	88.81	-8,576.6	-1,159.9	880.1	738.2	141.84	6.205		
18,700.0	9,790.5	18,746.1	9,772.2	69.8	73.5	88.81	-8,656.6	-1,160.6	880.1	737.1	143.00	6.154		
18,715.0	9,790.5	18,761.1	9,772.2	69.9	73.6	88.81	-8,671.6	-1,160.7	880.1	736.8	143.22	6.145		
18,800.0	9,790.5	18,846.1	9,772.2	70.6	74.2	88.81	-8,756.6	-1,161.4	880.1	735.6	144.46	6.092		
18,810.0	9,790.5	18,856.1	9,772.2	70.6	74.3	88.81	-8,766.6	-1,161.5	880.1	735.5	144.61	6.086		
18,900.0	9,790.6	18,946.1	9,772.3	71.3	74.9	88.81	-8,856.6	-1,162.2	880.1	734.1	145.92	6.031		
18,905.0	9,790.6	18,951.1	9,772.3	71.3	75.0	88.81	-8,861.6	-1,162.3	880.1	734.1	146.00	6.028		
19,000.0	9,790.6	19,046.1	9,772.4	72.0	75.6	88.81	-8,956.6	-1,163.1	880.1	732.7	147.39	5.971		
19,095.0	9,790.7	19,141.1	9,772.4	72.8	76.3	88.81	-9,051.6	-1,163.9	880.1	731.3	148.78	5.915		
19,100.0	9,790.7	19,146.1	9,772.5	72.8	76.3	88.81	-9,056.6	-1,163.9	880.1	731.2	148.85	5.912		
19,190.0	9,790.7	19,236.1	9,772.5	73.5	77.0	88.81	-9,146.6	-1,164.6	880.1	729.9	150.17	5.860		
19,200.0	9,790.7	19,246.1	9,772.5	73.5	77.1	88.81	-9,156.6	-1,164.7	880.1	729.7	150.32	5.855		
19,285.0	9,790.8	19,331.1	9,772.6	74.2	77.7	88.82	-9,241.6	-1,165.4	880.1	728.5	151.56	5.807		
19,300.0	9,790.8	19,346.1	9,772.6	74.3	77.8	88.82	-9,256.6	-1,165.6	880.1	728.3	151.78	5.798		
19,380.0	9,790.8	19,426.1	9,772.7	74.9	78.3	88.82	-9,336.6	-1,166.2	880.1	727.1	152.96	5.754		
19,400.0	9,790.8	19,446.1	9,772.7	75.0	78.5	88.82	-9,356.6	-1,166.4	880.1	726.8	153.25	5.743		
19,475.0	9,790.9	19,521.1	9,772.7	75.6	79.0	88.82	-9,431.6	-1,167.0	880.1	725.7	154.35	5.702		
19,500.0	9,790.9	19,546.1	9,772.7	75.8	79.2	88.82	-9,456.6	-1,167.2	880.1	725.3	154.72	5.688		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,570.0	9,790.9	19,616.1	9,772.8	76.3	79.7	88.82	-9,526.6	-1,167.8	880.1	724.3	155.75	5.651	
19,600.0	9,791.0	19,646.1	9,772.8	76.5	79.9	88.82	-9,556.6	-1,168.0	880.1	723.9	156.19	5.635	
19,665.0	9,791.0	19,711.1	9,772.9	77.0	80.4	88.82	-9,621.6	-1,168.6	880.1	722.9	157.14	5.600	
19,700.0	9,791.0	19,746.1	9,772.9	77.3	80.6	88.82	-9,656.5	-1,168.9	880.1	722.4	157.66	5.582	
19,760.0	9,791.0	19,806.1	9,772.9	77.7	81.1	88.82	-9,716.5	-1,169.4	880.1	721.5	158.54	5.551	
19,800.0	9,791.1	19,846.1	9,773.0	78.0	81.3	88.82	-9,756.5	-1,169.7	880.1	720.9	159.13	5.530	
19,855.0	9,791.1	19,901.1	9,773.0	78.5	81.7	88.82	-9,811.5	-1,170.1	880.1	720.1	159.94	5.502	
19,900.0	9,791.1	19,946.1	9,773.0	78.8	82.1	88.82	-9,856.5	-1,170.5	880.1	719.4	160.60	5.480	
19,950.0	9,791.1	19,996.1	9,773.1	79.2	82.4	88.82	-9,906.5	-1,170.9	880.1	718.7	161.34	5.455	
20,000.0	9,791.2	20,046.1	9,773.1	79.5	82.8	88.82	-9,956.5	-1,171.3	880.0	718.0	162.08	5.430	
20,045.0	9,791.2	20,091.1	9,773.1	79.9	83.1	88.82	-10,001.5	-1,171.7	880.0	717.3	162.74	5.408	
20,100.0	9,791.2	20,146.1	9,773.2	80.3	83.5	88.83	-10,056.5	-1,172.2	880.0	716.5	163.55	5.381	
20,140.0	9,791.2	20,186.1	9,773.2	80.6	83.8	88.83	-10,096.5	-1,172.5	880.0	715.9	164.14	5.361	
20,200.0	9,791.3	20,246.1	9,773.2	81.0	84.2	88.83	-10,156.5	-1,173.0	880.0	715.0	165.03	5.333	
20,235.0	9,791.3	20,281.1	9,773.3	81.3	84.5	88.83	-10,191.5	-1,173.3	880.0	714.5	165.55	5.316	
20,300.0	9,791.3	20,346.1	9,773.3	81.8	84.9	88.83	-10,256.5	-1,173.8	880.0	713.5	166.51	5.285	
20,330.0	9,791.3	20,376.1	9,773.3	82.0	85.2	88.83	-10,286.5	-1,174.1	880.0	713.1	166.95	5.271	
20,400.0	9,791.4	20,446.1	9,773.4	82.6	85.7	88.83	-10,356.5	-1,174.7	880.0	712.1	167.98	5.239	
20,425.0	9,791.4	20,471.1	9,773.4	82.7	85.8	88.83	-10,381.5	-1,174.9	880.0	711.7	168.35	5.227	
20,500.0	9,791.4	20,546.1	9,773.5	83.3	86.4	88.83	-10,456.5	-1,175.5	880.0	710.6	169.46	5.193	
20,520.0	9,791.4	20,566.1	9,773.5	83.5	86.5	88.83	-10,476.5	-1,175.6	880.0	710.3	169.76	5.184	
20,600.0	9,791.5	20,646.1	9,773.5	84.1	87.1	88.83	-10,556.5	-1,176.3	880.0	709.1	170.94	5.148	
20,615.0	9,791.5	20,661.1	9,773.5	84.2	87.2	88.83	-10,571.5	-1,176.4	880.0	708.9	171.16	5.142	
20,700.0	9,791.5	20,746.1	9,773.6	84.8	87.8	88.83	-10,656.5	-1,177.1	880.0	707.6	172.42	5.104	
20,710.0	9,791.5	20,756.1	9,773.6	84.9	87.9	88.83	-10,666.5	-1,177.2	880.0	707.5	172.57	5.100	
20,800.0	9,791.6	20,846.1	9,773.7	85.6	88.6	88.83	-10,756.5	-1,178.0	880.0	706.1	173.90	5.061	
20,805.0	9,791.6	20,851.1	9,773.7	85.6	88.6	88.83	-10,761.5	-1,178.0	880.0	706.1	173.98	5.058	
20,900.0	9,791.6	20,946.1	9,773.8	86.3	89.3	88.84	-10,856.5	-1,178.8	880.0	704.7	175.38	5.018	
20,995.0	9,791.7	21,041.1	9,773.8	87.0	90.0	88.84	-10,951.5	-1,179.6	880.0	703.2	176.79	4.978	
21,000.0	9,791.7	21,046.1	9,773.8	87.1	90.0	88.84	-10,956.5	-1,179.6	880.0	703.2	176.87	4.976	
21,090.0	9,791.7	21,136.1	9,773.9	87.7	90.7	88.84	-11,046.5	-1,180.4	880.0	701.8	178.20	4.938	
21,100.0	9,791.7	21,146.1	9,773.9	87.8	90.7	88.84	-11,056.5	-1,180.4	880.0	701.7	178.35	4.934	
21,185.0	9,791.8	21,231.1	9,774.0	88.5	91.4	88.84	-11,141.5	-1,181.1	880.0	700.4	179.61	4.900	
21,200.0	9,791.8	21,246.1	9,774.0	88.6	91.5	88.84	-11,156.5	-1,181.3	880.0	700.2	179.84	4.894	
21,280.0	9,791.8	21,326.1	9,774.0	89.2	92.1	88.84	-11,236.5	-1,181.9	880.0	699.0	181.02	4.861	
21,300.0	9,791.8	21,346.1	9,774.0	89.3	92.2	88.84	-11,256.5	-1,182.1	880.0	698.7	181.32	4.853	
21,375.0	9,791.9	21,421.1	9,774.1	89.9	92.7	88.84	-11,331.5	-1,182.7	880.0	697.6	182.43	4.824	
21,400.0	9,791.9	21,446.1	9,774.1	90.1	92.9	88.84	-11,356.5	-1,182.9	880.0	697.2	182.81	4.814	
21,470.0	9,791.9	21,516.1	9,774.2	90.6	93.4	88.84	-11,426.5	-1,183.5	880.0	696.2	183.85	4.787	
21,500.0	9,791.9	21,546.1	9,774.2	90.8	93.7	88.84	-11,456.5	-1,183.8	880.0	695.7	184.29	4.775	
21,565.0	9,792.0	21,611.1	9,774.2	91.3	94.1	88.84	-11,521.5	-1,184.3	880.0	694.8	185.26	4.750	
21,600.0	9,792.0	21,646.1	9,774.3	91.6	94.4	88.85	-11,556.5	-1,184.6	880.0	694.3	185.78	4.737	
21,660.0	9,792.0	21,706.1	9,774.3	92.0	94.8	88.85	-11,616.5	-1,185.1	880.0	693.4	186.67	4.714	
21,700.0	9,792.1	21,746.1	9,774.3	92.3	95.1	88.85	-11,656.5	-1,185.4	880.0	692.8	187.27	4.699	
21,755.0	9,792.1	21,801.1	9,774.4	92.8	95.5	88.85	-11,711.5	-1,185.9	880.0	691.9	188.09	4.679	
21,800.0	9,792.1	21,846.1	9,774.4	93.1	95.9	88.85	-11,756.5	-1,186.2	880.0	691.3	188.76	4.662	
21,850.0	9,792.1	21,896.1	9,774.4	93.5	96.2	88.85	-11,806.5	-1,186.6	880.0	690.5	189.50	4.644	
21,900.0	9,792.2	21,946.1	9,774.5	93.9	96.6	88.85	-11,856.5	-1,187.1	880.0	689.8	190.24	4.626	
21,945.0	9,792.2	21,991.1	9,774.5	94.2	96.9	88.85	-11,901.5	-1,187.4	880.0	689.1	190.91	4.610	
22,000.0	9,792.2	22,046.1	9,774.6	94.6	97.3	88.85	-11,956.5	-1,187.9	880.0	688.3	191.73	4.590	
22,040.0	9,792.2	22,086.1	9,774.6	94.9	97.6	88.85	-11,996.5	-1,188.2	880.0	687.7	192.33	4.576	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,100.0	9,792.3	22,146.1	9,774.6	95.4	98.0	88.85	-12,056.5	-1,188.7	880.0	686.8	193.22	4.554	
22,135.0	9,792.3	22,181.1	9,774.6	95.6	98.3	88.85	-12,091.5	-1,189.0	880.0	686.3	193.75	4.542	
22,200.0	9,792.3	22,246.1	9,774.7	96.1	98.8	88.85	-12,156.5	-1,189.5	880.0	685.3	194.71	4.520	
22,230.0	9,792.3	22,276.1	9,774.7	96.3	99.0	88.85	-12,186.5	-1,189.8	880.0	684.9	195.16	4.509	
22,300.0	9,792.4	22,346.1	9,774.8	96.9	99.5	88.85	-12,256.5	-1,190.4	880.0	683.8	196.21	4.485	
22,325.0	9,792.4	22,371.1	9,774.8	97.1	99.7	88.85	-12,281.5	-1,190.6	880.0	683.4	196.58	4.477	
22,400.0	9,792.4	22,446.1	9,774.8	97.6	100.2	88.86	-12,356.5	-1,191.2	880.0	682.3	197.70	4.451	
22,420.0	9,792.4	22,466.1	9,774.9	97.8	100.4	88.86	-12,376.5	-1,191.4	880.0	682.0	198.00	4.445	
22,500.0	9,792.5	22,546.1	9,774.9	98.4	101.0	88.86	-12,456.5	-1,192.0	880.0	680.8	199.19	4.418	
22,515.0	9,792.5	22,561.1	9,774.9	98.5	101.1	88.86	-12,471.5	-1,192.1	880.0	680.6	199.41	4.413	
22,600.0	9,792.5	22,646.1	9,775.0	99.1	101.7	88.86	-12,556.4	-1,192.8	880.0	679.3	200.68	4.385	
22,610.0	9,792.5	22,656.1	9,775.0	99.2	101.8	88.86	-12,566.4	-1,192.9	880.0	679.2	200.83	4.382	
22,700.0	9,792.6	22,746.1	9,775.1	99.9	102.5	88.86	-12,656.4	-1,193.7	880.0	677.8	202.18	4.353	
22,705.0	9,792.6	22,751.1	9,775.1	99.9	102.5	88.86	-12,661.4	-1,193.7	880.0	677.8	202.25	4.351	
22,800.0	9,792.6	22,846.1	9,775.1	100.7	103.2	88.86	-12,756.4	-1,194.5	880.0	676.3	203.67	4.321	
22,895.0	9,792.7	22,941.1	9,775.2	101.4	103.9	88.86	-12,851.4	-1,195.3	880.0	674.9	205.09	4.291	
22,900.0	9,792.7	22,946.1	9,775.2	101.4	103.9	88.86	-12,856.4	-1,195.3	880.0	674.9	205.17	4.289	
22,990.0	9,792.7	23,036.1	9,775.3	102.1	104.6	88.86	-12,946.4	-1,196.1	880.0	673.5	206.51	4.261	
23,000.0	9,792.7	23,046.1	9,775.3	102.2	104.7	88.86	-12,956.4	-1,196.2	880.0	673.4	206.66	4.258	
23,085.0	9,792.8	23,131.1	9,775.3	102.8	105.3	88.86	-13,041.4	-1,196.9	880.0	672.1	207.93	4.232	
23,100.0	9,792.8	23,146.1	9,775.3	102.9	105.4	88.86	-13,056.4	-1,197.0	880.0	671.9	208.16	4.228	
23,180.0	9,792.8	23,226.1	9,775.4	103.5	106.0	88.87	-13,136.4	-1,197.6	880.0	670.7	209.35	4.203	
23,200.0	9,792.8	23,246.1	9,775.4	103.7	106.1	88.87	-13,156.4	-1,197.8	880.0	670.4	209.65	4.197	
23,275.0	9,792.9	23,321.1	9,775.5	104.2	106.7	88.87	-13,231.4	-1,198.4	880.0	669.2	210.77	4.175	
23,300.0	9,792.9	23,346.1	9,775.5	104.4	106.9	88.87	-13,256.4	-1,198.6	880.0	668.9	211.15	4.168	
23,370.0	9,792.9	23,416.1	9,775.5	105.0	107.4	88.87	-13,326.4	-1,199.2	880.0	667.8	212.20	4.147	
23,400.0	9,792.9	23,446.1	9,775.6	105.2	107.6	88.87	-13,356.4	-1,199.5	880.0	667.4	212.65	4.138	
23,465.0	9,793.0	23,511.1	9,775.6	105.7	108.1	88.87	-13,421.4	-1,200.0	880.0	666.4	213.62	4.120	
23,500.0	9,793.0	23,546.1	9,775.6	105.9	108.4	88.87	-13,456.4	-1,200.3	880.0	665.9	214.14	4.109	
23,560.0	9,793.0	23,606.1	9,775.7	106.4	108.8	88.87	-13,516.4	-1,200.8	880.0	665.0	215.04	4.092	
23,600.0	9,793.0	23,646.1	9,775.7	106.7	109.1	88.87	-13,556.4	-1,201.1	880.0	664.4	215.64	4.081	
23,655.0	9,793.1	23,701.1	9,775.7	107.1	109.5	88.87	-13,611.4	-1,201.6	880.0	663.5	216.46	4.065	
23,700.0	9,793.1	23,746.1	9,775.8	107.5	109.8	88.87	-13,656.4	-1,201.9	880.0	662.9	217.14	4.053	
23,750.0	9,793.1	23,796.1	9,775.8	107.8	110.2	88.87	-13,706.4	-1,202.4	880.0	662.1	217.89	4.039	
23,800.0	9,793.2	23,846.1	9,775.9	108.2	110.6	88.87	-13,756.4	-1,202.8	880.0	661.4	218.64	4.025	
23,845.0	9,793.2	23,891.1	9,775.9	108.6	110.9	88.87	-13,801.4	-1,203.1	880.0	660.7	219.31	4.013	
23,900.0	9,793.2	23,946.1	9,775.9	109.0	111.3	88.87	-13,856.4	-1,203.6	880.0	659.9	220.14	3.998	
23,940.0	9,793.2	23,986.1	9,776.0	109.3	111.6	88.88	-13,896.4	-1,203.9	880.0	659.3	220.74	3.987	
24,000.0	9,793.3	24,046.1	9,776.0	109.7	112.1	88.88	-13,956.4	-1,204.4	880.0	658.4	221.63	3.971	
24,035.0	9,793.3	24,081.1	9,776.0	110.0	112.3	88.88	-13,991.4	-1,204.7	880.0	657.8	222.16	3.961	
24,100.0	9,793.3	24,146.1	9,776.1	110.5	112.8	88.88	-14,056.4	-1,205.3	880.0	656.9	223.13	3.944	
24,130.0	9,793.3	24,176.1	9,776.1	110.7	113.0	88.88	-14,086.4	-1,205.5	880.0	656.4	223.58	3.936	
24,200.0	9,793.4	24,246.1	9,776.1	111.2	113.5	88.88	-14,156.4	-1,206.1	880.0	655.4	224.63	3.917	
24,225.0	9,793.4	24,271.1	9,776.2	111.4	113.7	88.88	-14,181.4	-1,206.3	880.0	655.0	225.01	3.911	
24,300.0	9,793.4	24,346.1	9,776.2	112.0	114.3	88.88	-14,256.4	-1,206.9	880.0	653.9	226.14	3.891	
24,320.0	9,793.4	24,366.1	9,776.2	112.2	114.4	88.88	-14,276.4	-1,207.1	880.0	653.6	226.44	3.886	
24,400.0	9,793.5	24,446.1	9,776.3	112.8	115.0	88.88	-14,356.4	-1,207.7	880.0	652.4	227.64	3.866	
24,415.0	9,793.5	24,461.1	9,776.3	112.9	115.1	88.88	-14,371.4	-1,207.9	880.0	652.1	227.86	3.862	
24,500.0	9,793.5	24,546.1	9,776.4	113.5	115.8	88.88	-14,456.4	-1,208.6	880.0	650.9	229.14	3.840	
24,510.0	9,793.5	24,556.1	9,776.4	113.6	115.8	88.88	-14,466.4	-1,208.6	880.0	650.7	229.29	3.838	
24,600.0	9,793.6	24,646.1	9,776.4	114.3	116.5	88.88	-14,556.4	-1,209.4	880.0	649.4	230.64	3.815	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
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	
24,605.0	9,793.6	24,651.1	9,776.4	114.3	116.5	88.88	-14,561.4	-1,209.4	880.0	649.3	230.71	3.814		
24,700.0	9,793.6	24,746.1	9,776.5	115.0	117.2	88.89	-14,656.4	-1,210.2	880.0	647.9	232.14	3.791		
24,795.0	9,793.7	24,841.1	9,776.6	115.8	118.0	88.89	-14,751.4	-1,211.0	880.0	646.4	233.57	3.768		
24,800.0	9,793.7	24,846.1	9,776.6	115.8	118.0	88.89	-14,756.4	-1,211.0	880.0	646.4	233.64	3.766		
24,890.0	9,793.7	24,936.1	9,776.6	116.5	118.7	88.89	-14,846.4	-1,211.8	880.0	645.0	235.00	3.745		
24,900.0	9,793.7	24,946.1	9,776.6	116.6	118.7	88.89	-14,856.4	-1,211.9	880.0	644.8	235.15	3.742		
24,985.0	9,793.8	25,031.1	9,776.7	117.2	119.4	88.89	-14,941.4	-1,212.6	880.0	643.6	236.42	3.722		
25,000.0	9,793.8	25,046.1	9,776.7	117.3	119.5	88.89	-14,956.4	-1,212.7	880.0	643.3	236.65	3.719		
25,080.0	9,793.8	25,126.1	9,776.8	117.9	120.1	88.89	-15,036.4	-1,213.4	880.0	642.1	237.85	3.700		
25,100.0	9,793.8	25,146.1	9,776.8	118.1	120.2	88.89	-15,056.4	-1,213.5	880.0	641.8	238.15	3.695		
25,175.0	9,793.9	25,221.1	9,776.8	118.6	120.8	88.89	-15,131.4	-1,214.1	880.0	640.7	239.28	3.678		
25,200.0	9,793.9	25,246.1	9,776.9	118.8	121.0	88.89	-15,156.4	-1,214.3	880.0	640.3	239.66	3.672		
25,270.0	9,793.9	25,316.1	9,776.9	119.4	121.5	88.89	-15,226.4	-1,214.9	880.0	639.3	240.71	3.656		
25,278.2	9,793.9	25,324.3	9,776.9	119.4	121.5	88.89	-15,234.5	-1,215.0	880.0	639.2	240.83	3.654		
25,300.0	9,793.9	25,346.1	9,776.9	119.6	121.7	88.89	-15,256.4	-1,215.2	880.0	638.8	241.16	3.649		
25,365.0	9,794.0	25,411.1	9,777.0	120.1	122.2	88.89	-15,321.4	-1,215.7	880.0	637.9	242.14	3.634		
25,382.4	9,794.0	25,428.6	9,777.0	120.2	122.3	88.89	-15,338.8	-1,215.9	880.0	637.6	242.40	3.630		
25,408.3	9,794.0	25,430.7	9,777.0	120.4	122.3	88.89	-15,340.9	-1,215.9	880.3	637.6	242.72	3.627		

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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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						Rule Assigned:					Offset Well Error:	10.0 usft
Measured	Reference	Offset		Semi Major Axis		Offset Wellbore Centre			Distance			Warning		
Depth	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S	+E/-W	Between	Between	Minimum		Separation	
(usft)	Depth	Depth	Depth	(usft)	(usft)	Toolface	(usft)	(usft)	Centres	Ellipses	Separation		Factor	
10,500.0	9,786.2	9,765.8	9,759.5	19.9	287.6	89.96	-1,494.3	-988.5	1,289.5	985.9	303.59	4.248		
10,545.0	9,786.2	9,765.8	9,759.5	20.0	287.6	89.96	-1,494.3	-988.5	1,253.6	950.1	303.53	4.130		
10,600.0	9,786.2	9,765.8	9,759.5	20.0	287.6	89.96	-1,494.3	-988.5	1,210.6	907.1	303.46	3.989		
10,640.0	9,786.3	9,765.8	9,759.6	20.0	287.6	89.96	-1,494.3	-988.5	1,179.9	876.5	303.42	3.889		
10,700.0	9,786.3	9,765.9	9,759.6	20.1	287.6	89.97	-1,494.3	-988.5	1,135.0	831.7	303.36	3.741		
10,735.0	9,786.3	9,765.9	9,759.6	20.1	287.6	89.97	-1,494.3	-988.5	1,109.5	806.1	303.34	3.658		
10,800.0	9,786.3	9,765.9	9,759.6	20.2	287.6	89.97	-1,494.3	-988.5	1,063.5	760.1	303.31	3.506		
10,830.0	9,786.4	9,765.9	9,759.7	20.2	287.6	89.97	-1,494.3	-988.5	1,042.9	739.6	303.32	3.438		
10,900.0	9,786.4	9,766.0	9,759.7	20.3	287.6	89.98	-1,494.3	-988.5	996.8	693.5	303.36	3.286		
10,925.0	9,786.4	9,766.0	9,759.7	20.3	287.6	89.98	-1,494.3	-988.5	981.0	677.7	303.39	3.234		
11,000.0	9,786.4	9,766.0	9,759.7	20.4	287.6	89.98	-1,494.3	-988.5	936.1	632.6	303.52	3.084		
11,020.0	9,786.5	9,766.0	9,759.8	20.4	287.6	89.98	-1,494.3	-988.5	924.8	621.2	303.57	3.046		
11,100.0	9,786.5	9,766.1	9,759.8	20.5	287.6	89.98	-1,494.3	-988.5	882.6	578.8	303.85	2.905		
11,115.0	9,786.5	9,766.1	9,759.8	20.6	287.6	89.98	-1,494.3	-988.5	875.3	571.4	303.92	2.880		
11,200.0	9,786.5	9,766.1	9,759.8	20.7	287.6	89.99	-1,494.3	-988.5	837.7	533.3	304.37	2.752		
11,210.0	9,786.6	9,766.1	9,759.9	20.7	287.6	89.99	-1,494.3	-988.5	833.7	529.3	304.44	2.739		
11,300.0	9,786.6	9,766.2	9,759.9	20.9	287.6	89.99	-1,494.3	-988.5	802.7	497.6	305.10	2.631		
11,305.0	9,786.6	9,766.2	9,759.9	20.9	287.6	89.99	-1,494.3	-988.5	801.3	496.1	305.14	2.626		
11,400.0	9,786.7	9,766.2	9,760.0	21.1	287.6	89.99	-1,494.3	-988.5	779.2	473.2	306.00	2.546		
11,495.0	9,786.7	9,766.3	9,760.0	21.4	287.6	90.00	-1,494.3	-988.5	768.2	461.3	306.96	2.503		
11,500.0	9,786.7	9,766.3	9,760.0	21.4	287.6	90.00	-1,494.3	-988.5	768.0	461.0	307.01	2.501		
11,536.5	9,786.7	9,766.3	9,760.0	21.5	287.6	90.00	-1,494.3	-988.5	767.1	459.7	307.38	2.496	CC, ES, SF	
11,590.0	9,786.8	9,766.3	9,760.1	21.6	287.6	90.00	-1,494.3	-988.5	769.0	461.0	307.92	2.497		
11,600.0	9,786.8	9,766.3	9,760.1	21.7	287.6	90.00	-1,494.3	-988.5	769.7	461.7	308.02	2.499		
11,685.0	9,786.8	9,766.4	9,760.1	21.9	287.6	90.01	-1,494.3	-988.5	781.3	472.5	308.83	2.530		
11,700.0	9,786.8	9,766.4	9,760.1	22.0	287.6	90.01	-1,494.3	-988.5	784.3	475.4	308.96	2.539		
11,780.0	9,786.9	9,766.4	9,760.2	22.3	287.6	90.01	-1,494.3	-988.5	804.8	495.2	309.61	2.599		
11,800.0	9,786.9	9,766.4	9,760.2	22.4	287.6	90.01	-1,494.3	-988.5	811.1	501.3	309.75	2.618		
11,875.0	9,786.9	9,766.5	9,760.2	22.7	287.6	90.01	-1,494.3	-988.5	838.4	528.2	310.24	2.703		
11,900.0	9,786.9	9,766.5	9,760.2	22.8	287.6	90.01	-1,494.3	-988.5	848.8	538.5	310.38	2.735		
11,970.0	9,787.0	9,766.5	9,760.3	23.1	287.6	90.02	-1,494.3	-988.5	881.1	570.4	310.71	2.836		
12,000.0	9,787.0	9,766.5	9,760.3	23.2	287.6	90.02	-1,494.3	-988.5	896.2	585.4	310.83	2.883		
12,065.0	9,787.0	9,766.6	9,760.3	23.5	287.6	90.02	-1,494.3	-988.5	931.5	620.5	311.05	2.995		
12,100.0	9,787.0	9,766.6	9,760.3	23.7	287.6	90.02	-1,494.3	-988.5	951.8	640.7	311.15	3.059		
12,160.0	9,787.0	9,766.6	9,760.3	24.0	287.6	90.02	-1,494.3	-988.5	988.5	677.2	311.28	3.176		
12,200.0	9,787.1	9,766.7	9,760.4	24.2	287.6	90.03	-1,494.3	-988.5	1,014.2	702.9	311.35	3.257		
12,255.0	9,787.1	9,766.7	9,760.4	24.5	287.6	90.03	-1,494.3	-988.5	1,051.0	739.6	311.42	3.375		
12,300.0	9,787.1	9,766.7	9,760.4	24.7	287.6	90.03	-1,494.3	-988.5	1,082.3	770.8	311.47	3.475		
12,350.0	9,787.1	9,766.7	9,760.4	25.0	287.6	90.03	-1,494.3	-988.5	1,118.1	806.6	311.50	3.589		
12,400.0	9,787.2	9,766.8	9,760.5	25.3	287.6	90.03	-1,494.3	-988.5	1,155.0	843.5	311.53	3.707		
12,445.0	9,787.2	9,766.8	9,760.5	25.6	287.6	90.04	-1,494.3	-988.5	1,189.0	877.5	311.54	3.817		
12,500.0	9,787.2	9,766.8	9,760.5	25.9	287.6	90.04	-1,494.3	-988.5	1,231.5	920.0	311.55	3.953		
12,540.0	9,787.2	9,766.8	9,760.5	26.1	287.6	90.04	-1,494.3	-988.5	1,263.1	951.5	311.55	4.054		
12,600.0	9,787.3	9,766.9	9,760.6	26.5	287.6	90.04	-1,494.3	-988.5	1,311.3	999.7	311.54	4.209		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3124.7ft @ 3156.7usft

Offset Depths are relative to Offset Datum

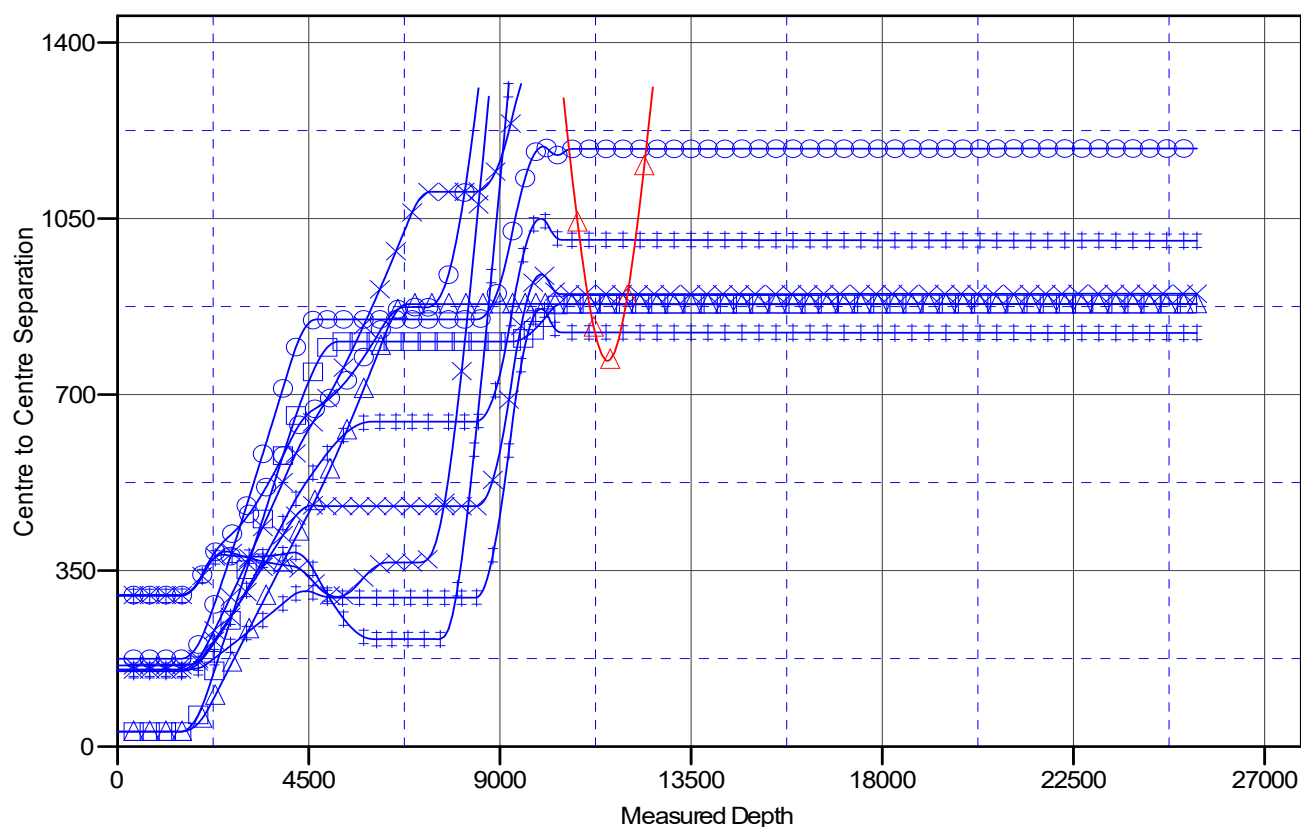
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #802H

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

Grid Convergence at Surface is: 0.08°

Ladder Plot



LEGEND

FLAMING SNAIL FEDERAL COM #501H, OWB, PWP 1 V0	FLAMING SNAIL FEDERAL COM #702H, OWB, PWP 1 V0	FLAMING SNAIL FEDERAL COM #801H, OWB, PWP 1 V0
FLAMING SNAIL FEDERAL COM #502H, OWB, PWP 0 V0	FLAMING SNAIL FEDERAL COM #703H, OWB, PWP 1 V0	FLAMING SNAIL FEDERAL COM #803H, OWB, PWP 1 V0
FLAMING SNAIL FEDERAL COM #520H, OWB, PWP 0 V0	FLAMING SNAIL FEDERAL COM #704H, OWB, PWP 1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #701H, OWB, PWP 1 V0	FLAMING SNAIL FEDERAL COM #705H, OWB, PWP 1 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 #802H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3124.7ft @ 3156.7usft

Offset Depths are relative to Offset Datum

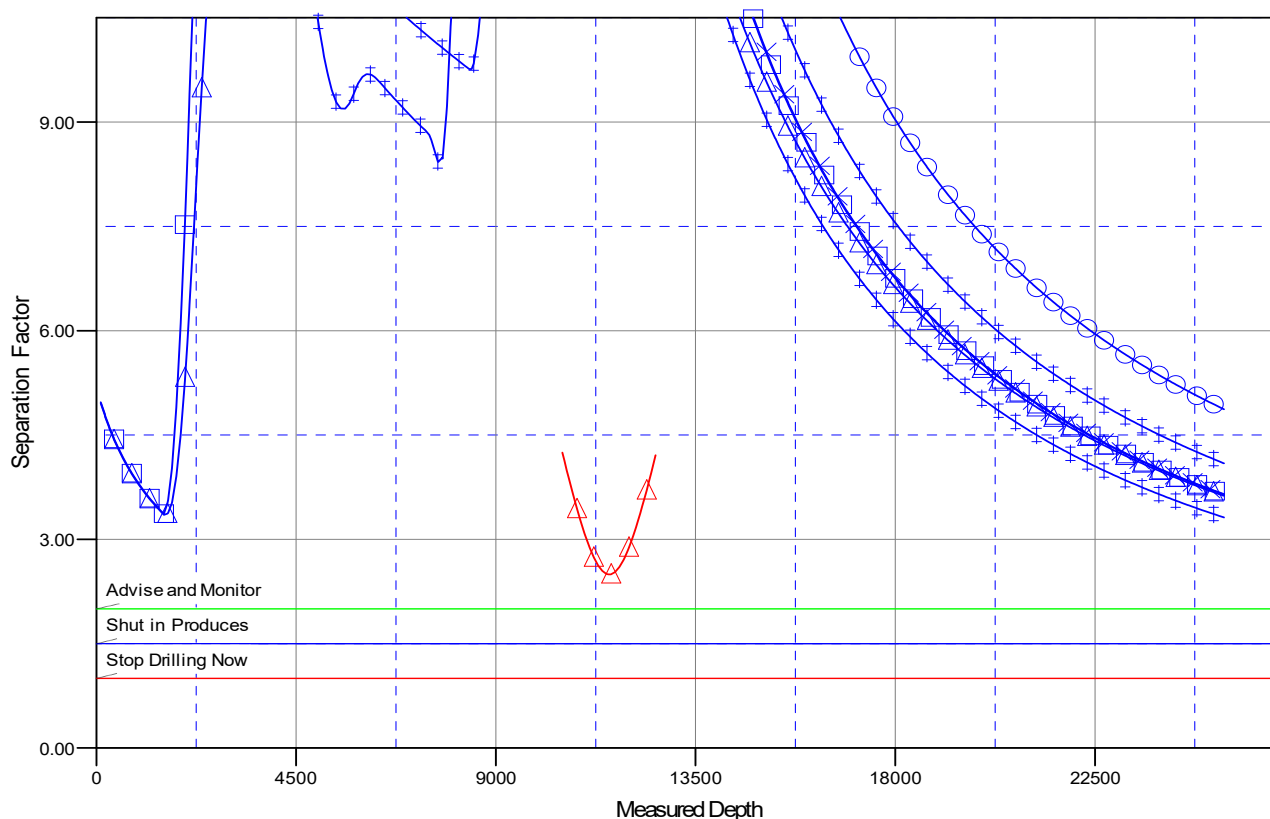
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #802H

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

Grid Convergence at Surface is: 0.08°

Separation Factor Plot



LEGEND

FLAMING SNAIL FEDERAL COM #501H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #702H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #801H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #502H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #703H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #803H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #504H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #705H, 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 #802H

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 #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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 #802H					
Well Position	+N/-S	-398.0 usft	Northing:	402,623.70 usft	Latitude:	32° 6' 24.648 N
	+E/-W	4,310.5 usft	Easting:	544,622.40 usft	Longitude:	104° 11' 21.193 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,124.7 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,317.60332620

Design	PWP1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	181.25

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	9,257.4 PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	9,257.4	25,408.3 PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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	
2,050.0	11.00	335.54	2,046.6	47.9	-21.8	2.00	2.00	0.00	335.54	
4,097.4	11.00	335.54	4,056.4	403.5	-183.5	0.00	0.00	0.00	0.00	
4,647.4	0.00	0.00	4,603.0	451.4	-205.3	2.00	-2.00	0.00	180.00	
9,257.4	0.00	0.00	9,213.0	451.4	-205.3	0.00	0.00	0.00	0.00	VT (FLAMING SNAIL
10,157.1	89.97	180.47	9,786.0	-121.2	-210.0	10.00	10.00	-19.95	180.47	
25,278.2	89.97	180.47	9,793.9	-15,241.8	-335.2	0.00	0.00	0.00	0.00	LTP (FLAMING SNAII
25,408.3	89.97	180.47	9,794.0	-15,371.9	-336.3	0.00	0.00	0.00	0.00	PBHL (FLAMING SN#

ConocoPhillips

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Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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	335.54	1,600.0	1.6	-0.7	-1.6	2.00	2.00	0.00
1,700.0	4.00	335.54	1,699.8	6.4	-2.9	-6.3	2.00	2.00	0.00
1,800.0	6.00	335.54	1,799.5	14.3	-6.5	-14.1	2.00	2.00	0.00
1,900.0	8.00	335.54	1,898.7	25.4	-11.5	-25.1	2.00	2.00	0.00
2,000.0	10.00	335.54	1,997.5	39.6	-18.0	-39.2	2.00	2.00	0.00
2,050.0	11.00	335.54	2,046.6	47.9	-21.8	-47.4	2.00	2.00	0.00
Start 2047.4 hold at 2050.0 MD									
2,100.0	11.00	335.54	2,095.7	56.6	-25.7	-56.0	0.00	0.00	0.00
2,200.0	11.00	335.54	2,193.9	74.0	-33.6	-73.2	0.00	0.00	0.00
2,300.0	11.00	335.54	2,292.0	91.3	-41.5	-90.4	0.00	0.00	0.00
2,400.0	11.00	335.54	2,390.2	108.7	-49.4	-107.6	0.00	0.00	0.00
2,500.0	11.00	335.54	2,488.4	126.1	-57.3	-124.8	0.00	0.00	0.00
2,600.0	11.00	335.54	2,586.5	143.4	-65.2	-142.0	0.00	0.00	0.00
2,700.0	11.00	335.54	2,684.7	160.8	-73.1	-159.2	0.00	0.00	0.00
2,800.0	11.00	335.54	2,782.8	178.2	-81.0	-176.4	0.00	0.00	0.00
2,900.0	11.00	335.54	2,881.0	195.5	-88.9	-193.5	0.00	0.00	0.00
3,000.0	11.00	335.54	2,979.2	212.9	-96.8	-210.7	0.00	0.00	0.00
3,100.0	11.00	335.54	3,077.3	230.3	-104.7	-227.9	0.00	0.00	0.00
3,200.0	11.00	335.54	3,175.5	247.6	-112.6	-245.1	0.00	0.00	0.00
3,300.0	11.00	335.54	3,273.7	265.0	-120.5	-262.3	0.00	0.00	0.00
3,400.0	11.00	335.54	3,371.8	282.4	-128.4	-279.5	0.00	0.00	0.00
3,500.0	11.00	335.54	3,470.0	299.7	-136.3	-296.7	0.00	0.00	0.00
3,600.0	11.00	335.54	3,568.2	317.1	-144.2	-313.9	0.00	0.00	0.00
3,700.0	11.00	335.54	3,666.3	334.5	-152.1	-331.1	0.00	0.00	0.00
3,800.0	11.00	335.54	3,764.5	351.8	-160.0	-348.3	0.00	0.00	0.00
3,900.0	11.00	335.54	3,862.6	369.2	-167.9	-365.5	0.00	0.00	0.00
4,000.0	11.00	335.54	3,960.8	386.6	-175.8	-382.6	0.00	0.00	0.00
4,097.4	11.00	335.54	4,056.4	403.5	-183.5	-399.4	0.00	0.00	0.00
Start Drop -2.00									
4,100.0	10.95	335.54	4,059.0	403.9	-183.7	-399.8	2.00	-2.00	0.00
4,200.0	8.95	335.54	4,157.5	419.7	-190.9	-415.4	2.00	-2.00	0.00
4,300.0	6.95	335.54	4,256.5	432.3	-196.6	-427.9	2.00	-2.00	0.00
4,400.0	4.95	335.54	4,356.0	441.7	-200.9	-437.2	2.00	-2.00	0.00
4,500.0	2.95	335.54	4,455.7	448.0	-203.7	-443.4	2.00	-2.00	0.00
4,600.0	0.95	335.54	4,555.6	451.0	-205.1	-446.5	2.00	-2.00	0.00
4,647.4	0.00	0.00	4,603.0	451.4	-205.3	-446.8	2.00	-2.00	51.64
Start 4610.0 hold at 4647.4 MD									

ConocoPhillips

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Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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)
4,700.0	0.00	0.00	4,655.6	451.4	-205.3	-446.8	0.00	0.00	0.00
4,800.0	0.00	0.00	4,755.6	451.4	-205.3	-446.8	0.00	0.00	0.00
4,900.0	0.00	0.00	4,855.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,000.0	0.00	0.00	4,955.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,100.0	0.00	0.00	5,055.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,200.0	0.00	0.00	5,155.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,255.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,355.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,455.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,555.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,655.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,755.6	451.4	-205.3	-446.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,855.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,955.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,100.0	0.00	0.00	6,055.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,155.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,255.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,355.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,455.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,555.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,655.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,755.6	451.4	-205.3	-446.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,855.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,955.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,055.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,155.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,255.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,355.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,455.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,555.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,655.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,755.6	451.4	-205.3	-446.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,855.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,955.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,055.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,155.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,255.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,355.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,455.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,600.0	0.00	0.00	8,555.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,655.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,755.6	451.4	-205.3	-446.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,855.6	451.4	-205.3	-446.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,955.6	451.4	-205.3	-446.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,055.6	451.4	-205.3	-446.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,155.6	451.4	-205.3	-446.8	0.00	0.00	0.00
9,257.4	0.00	0.00	9,213.0	451.4	-205.3	-446.8	0.00	0.00	0.00
Start DLS 10.00 TFO 180.47									
9,300.0	4.26	180.47	9,255.6	449.8	-205.3	-445.2	10.00	10.00	0.00
9,350.0	9.26	180.47	9,305.2	443.9	-205.4	-439.3	10.00	10.00	0.00
9,400.0	14.26	180.47	9,354.2	433.7	-205.4	-429.1	10.00	10.00	0.00
9,450.0	19.26	180.47	9,402.0	419.3	-205.6	-414.7	10.00	10.00	0.00
9,500.0	24.26	180.47	9,448.5	400.8	-205.7	-396.2	10.00	10.00	0.00

ConocoPhillips

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Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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)
9,550.0	29.26	180.47	9,493.1	378.3	-205.9	-373.7	10.00	10.00	0.00
9,600.0	34.26	180.47	9,535.6	352.0	-206.1	-347.4	10.00	10.00	0.00
9,650.0	39.26	180.47	9,575.6	322.1	-206.4	-317.5	10.00	10.00	0.00
9,700.0	44.26	180.47	9,612.9	288.8	-206.6	-284.2	10.00	10.00	0.00
9,750.0	49.26	180.47	9,647.2	252.4	-206.9	-247.8	10.00	10.00	0.00
9,800.0	54.26	180.47	9,678.1	213.1	-207.3	-208.5	10.00	10.00	0.00
9,850.0	59.26	180.47	9,705.5	171.3	-207.6	-166.7	10.00	10.00	0.00
9,900.0	64.26	180.47	9,729.1	127.3	-208.0	-122.7	10.00	10.00	0.00
9,950.0	69.26	180.47	9,748.9	81.4	-208.4	-76.8	10.00	10.00	0.00
10,000.0	74.26	180.47	9,764.5	33.9	-208.8	-29.3	10.00	10.00	0.00
10,050.0	79.26	180.47	9,776.0	-14.8	-209.2	19.3	10.00	10.00	0.00
10,100.0	84.26	180.47	9,783.1	-64.2	-209.6	68.8	10.00	10.00	0.00
10,150.0	89.26	180.47	9,786.0	-114.1	-210.0	118.7	10.00	10.00	0.00
10,157.1	89.97	180.47	9,786.0	-121.2	-210.0	125.8	10.00	10.00	0.00
Start 15121.1 hold at 10157.1 MD									
10,200.0	89.97	180.47	9,786.0	-164.1	-210.4	168.7	0.00	0.00	0.00
10,300.0	89.97	180.47	9,786.1	-264.1	-211.2	268.7	0.00	0.00	0.00
10,400.0	89.97	180.47	9,786.1	-364.1	-212.1	368.7	0.00	0.00	0.00
10,500.0	89.97	180.47	9,786.2	-464.1	-212.9	468.7	0.00	0.00	0.00
10,600.0	89.97	180.47	9,786.2	-564.1	-213.7	568.7	0.00	0.00	0.00
10,700.0	89.97	180.47	9,786.3	-664.1	-214.5	668.7	0.00	0.00	0.00
10,800.0	89.97	180.47	9,786.3	-764.1	-215.4	768.6	0.00	0.00	0.00
10,900.0	89.97	180.47	9,786.4	-864.1	-216.2	868.6	0.00	0.00	0.00
11,000.0	89.97	180.47	9,786.4	-964.1	-217.0	968.6	0.00	0.00	0.00
11,100.0	89.97	180.47	9,786.5	-1,064.1	-217.8	1,068.6	0.00	0.00	0.00
11,200.0	89.97	180.47	9,786.5	-1,164.1	-218.7	1,168.6	0.00	0.00	0.00
11,300.0	89.97	180.47	9,786.6	-1,264.1	-219.5	1,268.6	0.00	0.00	0.00
11,400.0	89.97	180.47	9,786.7	-1,364.1	-220.3	1,368.6	0.00	0.00	0.00
11,500.0	89.97	180.47	9,786.7	-1,464.1	-221.2	1,468.6	0.00	0.00	0.00
11,600.0	89.97	180.47	9,786.8	-1,564.1	-222.0	1,568.6	0.00	0.00	0.00
11,700.0	89.97	180.47	9,786.8	-1,664.1	-222.8	1,668.6	0.00	0.00	0.00
11,800.0	89.97	180.47	9,786.9	-1,764.1	-223.6	1,768.6	0.00	0.00	0.00
11,900.0	89.97	180.47	9,786.9	-1,864.1	-224.5	1,868.5	0.00	0.00	0.00
12,000.0	89.97	180.47	9,787.0	-1,964.1	-225.3	1,968.5	0.00	0.00	0.00
12,100.0	89.97	180.47	9,787.0	-2,064.1	-226.1	2,068.5	0.00	0.00	0.00
12,200.0	89.97	180.47	9,787.1	-2,164.1	-226.9	2,168.5	0.00	0.00	0.00
12,300.0	89.97	180.47	9,787.1	-2,264.1	-227.8	2,268.5	0.00	0.00	0.00
12,400.0	89.97	180.47	9,787.2	-2,364.1	-228.6	2,368.5	0.00	0.00	0.00
12,500.0	89.97	180.47	9,787.2	-2,464.1	-229.4	2,468.5	0.00	0.00	0.00
12,600.0	89.97	180.47	9,787.3	-2,564.1	-230.3	2,568.5	0.00	0.00	0.00
12,700.0	89.97	180.47	9,787.3	-2,664.1	-231.1	2,668.5	0.00	0.00	0.00
12,800.0	89.97	180.47	9,787.4	-2,764.1	-231.9	2,768.5	0.00	0.00	0.00
12,900.0	89.97	180.47	9,787.4	-2,864.0	-232.7	2,868.5	0.00	0.00	0.00
13,000.0	89.97	180.47	9,787.5	-2,964.0	-233.6	2,968.4	0.00	0.00	0.00
13,100.0	89.97	180.47	9,787.5	-3,064.0	-234.4	3,068.4	0.00	0.00	0.00
13,200.0	89.97	180.47	9,787.6	-3,164.0	-235.2	3,168.4	0.00	0.00	0.00
13,300.0	89.97	180.47	9,787.6	-3,264.0	-236.1	3,268.4	0.00	0.00	0.00
13,400.0	89.97	180.47	9,787.7	-3,364.0	-236.9	3,368.4	0.00	0.00	0.00
13,500.0	89.97	180.47	9,787.8	-3,464.0	-237.7	3,468.4	0.00	0.00	0.00
13,600.0	89.97	180.47	9,787.8	-3,564.0	-238.5	3,568.4	0.00	0.00	0.00
13,700.0	89.97	180.47	9,787.9	-3,664.0	-239.4	3,668.4	0.00	0.00	0.00
13,800.0	89.97	180.47	9,787.9	-3,764.0	-240.2	3,768.4	0.00	0.00	0.00
13,900.0	89.97	180.47	9,788.0	-3,864.0	-241.0	3,868.4	0.00	0.00	0.00
14,000.0	89.97	180.47	9,788.0	-3,964.0	-241.8	3,968.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.0	89.97	180.47	9,788.1	-4,064.0	-242.7	4,068.3	0.00	0.00	0.00
14,200.0	89.97	180.47	9,788.1	-4,164.0	-243.5	4,168.3	0.00	0.00	0.00
14,300.0	89.97	180.47	9,788.2	-4,264.0	-244.3	4,268.3	0.00	0.00	0.00
14,400.0	89.97	180.47	9,788.2	-4,364.0	-245.2	4,368.3	0.00	0.00	0.00
14,500.0	89.97	180.47	9,788.3	-4,464.0	-246.0	4,468.3	0.00	0.00	0.00
14,600.0	89.97	180.47	9,788.3	-4,564.0	-246.8	4,568.3	0.00	0.00	0.00
14,700.0	89.97	180.47	9,788.4	-4,664.0	-247.6	4,668.3	0.00	0.00	0.00
14,800.0	89.97	180.47	9,788.4	-4,764.0	-248.5	4,768.3	0.00	0.00	0.00
14,900.0	89.97	180.47	9,788.5	-4,864.0	-249.3	4,868.3	0.00	0.00	0.00
15,000.0	89.97	180.47	9,788.5	-4,964.0	-250.1	4,968.3	0.00	0.00	0.00
15,100.0	89.97	180.47	9,788.6	-5,064.0	-251.0	5,068.2	0.00	0.00	0.00
15,200.0	89.97	180.47	9,788.6	-5,164.0	-251.8	5,168.2	0.00	0.00	0.00
15,300.0	89.97	180.47	9,788.7	-5,264.0	-252.6	5,268.2	0.00	0.00	0.00
15,400.0	89.97	180.47	9,788.7	-5,364.0	-253.4	5,368.2	0.00	0.00	0.00
15,500.0	89.97	180.47	9,788.8	-5,464.0	-254.3	5,468.2	0.00	0.00	0.00
15,600.0	89.97	180.47	9,788.9	-5,564.0	-255.1	5,568.2	0.00	0.00	0.00
15,700.0	89.97	180.47	9,788.9	-5,664.0	-255.9	5,668.2	0.00	0.00	0.00
15,800.0	89.97	180.47	9,789.0	-5,763.9	-256.7	5,768.2	0.00	0.00	0.00
15,900.0	89.97	180.47	9,789.0	-5,863.9	-257.6	5,868.2	0.00	0.00	0.00
16,000.0	89.97	180.47	9,789.1	-5,963.9	-258.4	5,968.2	0.00	0.00	0.00
16,100.0	89.97	180.47	9,789.1	-6,063.9	-259.2	6,068.2	0.00	0.00	0.00
16,200.0	89.97	180.47	9,789.2	-6,163.9	-260.1	6,168.1	0.00	0.00	0.00
16,300.0	89.97	180.47	9,789.2	-6,263.9	-260.9	6,268.1	0.00	0.00	0.00
16,400.0	89.97	180.47	9,789.3	-6,363.9	-261.7	6,368.1	0.00	0.00	0.00
16,500.0	89.97	180.47	9,789.3	-6,463.9	-262.5	6,468.1	0.00	0.00	0.00
16,600.0	89.97	180.47	9,789.4	-6,563.9	-263.4	6,568.1	0.00	0.00	0.00
16,700.0	89.97	180.47	9,789.4	-6,663.9	-264.2	6,668.1	0.00	0.00	0.00
16,800.0	89.97	180.47	9,789.5	-6,763.9	-265.0	6,768.1	0.00	0.00	0.00
16,900.0	89.97	180.47	9,789.5	-6,863.9	-265.9	6,868.1	0.00	0.00	0.00
17,000.0	89.97	180.47	9,789.6	-6,963.9	-266.7	6,968.1	0.00	0.00	0.00
17,100.0	89.97	180.47	9,789.6	-7,063.9	-267.5	7,068.1	0.00	0.00	0.00
17,200.0	89.97	180.47	9,789.7	-7,163.9	-268.3	7,168.1	0.00	0.00	0.00
17,300.0	89.97	180.47	9,789.7	-7,263.9	-269.2	7,268.0	0.00	0.00	0.00
17,400.0	89.97	180.47	9,789.8	-7,363.9	-270.0	7,368.0	0.00	0.00	0.00
17,500.0	89.97	180.47	9,789.9	-7,463.9	-270.8	7,468.0	0.00	0.00	0.00
17,600.0	89.97	180.47	9,789.9	-7,563.9	-271.6	7,568.0	0.00	0.00	0.00
17,700.0	89.97	180.47	9,790.0	-7,663.9	-272.5	7,668.0	0.00	0.00	0.00
17,800.0	89.97	180.47	9,790.0	-7,763.9	-273.3	7,768.0	0.00	0.00	0.00
17,900.0	89.97	180.47	9,790.1	-7,863.9	-274.1	7,868.0	0.00	0.00	0.00
18,000.0	89.97	180.47	9,790.1	-7,963.9	-275.0	7,968.0	0.00	0.00	0.00
18,100.0	89.97	180.47	9,790.2	-8,063.9	-275.8	8,068.0	0.00	0.00	0.00
18,200.0	89.97	180.47	9,790.2	-8,163.9	-276.6	8,168.0	0.00	0.00	0.00
18,300.0	89.97	180.47	9,790.3	-8,263.9	-277.4	8,268.0	0.00	0.00	0.00
18,400.0	89.97	180.47	9,790.3	-8,363.9	-278.3	8,367.9	0.00	0.00	0.00
18,500.0	89.97	180.47	9,790.4	-8,463.9	-279.1	8,467.9	0.00	0.00	0.00
18,600.0	89.97	180.47	9,790.4	-8,563.9	-279.9	8,567.9	0.00	0.00	0.00
18,700.0	89.97	180.47	9,790.5	-8,663.8	-280.8	8,667.9	0.00	0.00	0.00
18,800.0	89.97	180.47	9,790.5	-8,763.8	-281.6	8,767.9	0.00	0.00	0.00
18,900.0	89.97	180.47	9,790.6	-8,863.8	-282.4	8,867.9	0.00	0.00	0.00
19,000.0	89.97	180.47	9,790.6	-8,963.8	-283.2	8,967.9	0.00	0.00	0.00
19,100.0	89.97	180.47	9,790.7	-9,063.8	-284.1	9,067.9	0.00	0.00	0.00
19,200.0	89.97	180.47	9,790.7	-9,163.8	-284.9	9,167.9	0.00	0.00	0.00
19,300.0	89.97	180.47	9,790.8	-9,263.8	-285.7	9,267.9	0.00	0.00	0.00
19,400.0	89.97	180.47	9,790.8	-9,363.8	-286.5	9,367.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,500.0	89.97	180.47	9,790.9	-9,463.8	-287.4	9,467.8	0.00	0.00	0.00
19,600.0	89.97	180.47	9,791.0	-9,563.8	-288.2	9,567.8	0.00	0.00	0.00
19,700.0	89.97	180.47	9,791.0	-9,663.8	-289.0	9,667.8	0.00	0.00	0.00
19,800.0	89.97	180.47	9,791.1	-9,763.8	-289.9	9,767.8	0.00	0.00	0.00
19,900.0	89.97	180.47	9,791.1	-9,863.8	-290.7	9,867.8	0.00	0.00	0.00
20,000.0	89.97	180.47	9,791.2	-9,963.8	-291.5	9,967.8	0.00	0.00	0.00
20,100.0	89.97	180.47	9,791.2	-10,063.8	-292.3	10,067.8	0.00	0.00	0.00
20,200.0	89.97	180.47	9,791.3	-10,163.8	-293.2	10,167.8	0.00	0.00	0.00
20,300.0	89.97	180.47	9,791.3	-10,263.8	-294.0	10,267.8	0.00	0.00	0.00
20,400.0	89.97	180.47	9,791.4	-10,363.8	-294.8	10,367.8	0.00	0.00	0.00
20,500.0	89.97	180.47	9,791.4	-10,463.8	-295.7	10,467.7	0.00	0.00	0.00
20,600.0	89.97	180.47	9,791.5	-10,563.8	-296.5	10,567.7	0.00	0.00	0.00
20,700.0	89.97	180.47	9,791.5	-10,663.8	-297.3	10,667.7	0.00	0.00	0.00
20,800.0	89.97	180.47	9,791.6	-10,763.8	-298.1	10,767.7	0.00	0.00	0.00
20,900.0	89.97	180.47	9,791.6	-10,863.8	-299.0	10,867.7	0.00	0.00	0.00
21,000.0	89.97	180.47	9,791.7	-10,963.8	-299.8	10,967.7	0.00	0.00	0.00
21,100.0	89.97	180.47	9,791.7	-11,063.8	-300.6	11,067.7	0.00	0.00	0.00
21,200.0	89.97	180.47	9,791.8	-11,163.8	-301.4	11,167.7	0.00	0.00	0.00
21,300.0	89.97	180.47	9,791.8	-11,263.8	-302.3	11,267.7	0.00	0.00	0.00
21,400.0	89.97	180.47	9,791.9	-11,363.8	-303.1	11,367.7	0.00	0.00	0.00
21,500.0	89.97	180.47	9,791.9	-11,463.8	-303.9	11,467.7	0.00	0.00	0.00
21,600.0	89.97	180.47	9,792.0	-11,563.7	-304.8	11,567.6	0.00	0.00	0.00
21,700.0	89.97	180.47	9,792.1	-11,663.7	-305.6	11,667.6	0.00	0.00	0.00
21,800.0	89.97	180.47	9,792.1	-11,763.7	-306.4	11,767.6	0.00	0.00	0.00
21,900.0	89.97	180.47	9,792.2	-11,863.7	-307.2	11,867.6	0.00	0.00	0.00
22,000.0	89.97	180.47	9,792.2	-11,963.7	-308.1	11,967.6	0.00	0.00	0.00
22,100.0	89.97	180.47	9,792.3	-12,063.7	-308.9	12,067.6	0.00	0.00	0.00
22,200.0	89.97	180.47	9,792.3	-12,163.7	-309.7	12,167.6	0.00	0.00	0.00
22,300.0	89.97	180.47	9,792.4	-12,263.7	-310.5	12,267.6	0.00	0.00	0.00
22,400.0	89.97	180.47	9,792.4	-12,363.7	-311.4	12,367.6	0.00	0.00	0.00
22,500.0	89.97	180.47	9,792.5	-12,463.7	-312.2	12,467.6	0.00	0.00	0.00
22,600.0	89.97	180.47	9,792.5	-12,563.7	-313.0	12,567.6	0.00	0.00	0.00
22,700.0	89.97	180.47	9,792.6	-12,663.7	-313.9	12,667.5	0.00	0.00	0.00
22,800.0	89.97	180.47	9,792.6	-12,763.7	-314.7	12,767.5	0.00	0.00	0.00
22,900.0	89.97	180.47	9,792.7	-12,863.7	-315.5	12,867.5	0.00	0.00	0.00
23,000.0	89.97	180.47	9,792.7	-12,963.7	-316.3	12,967.5	0.00	0.00	0.00
23,100.0	89.97	180.47	9,792.8	-13,063.7	-317.2	13,067.5	0.00	0.00	0.00
23,200.0	89.97	180.47	9,792.8	-13,163.7	-318.0	13,167.5	0.00	0.00	0.00
23,300.0	89.97	180.47	9,792.9	-13,263.7	-318.8	13,267.5	0.00	0.00	0.00
23,400.0	89.97	180.47	9,792.9	-13,363.7	-319.7	13,367.5	0.00	0.00	0.00
23,500.0	89.97	180.47	9,793.0	-13,463.7	-320.5	13,467.5	0.00	0.00	0.00
23,600.0	89.97	180.47	9,793.0	-13,563.7	-321.3	13,567.5	0.00	0.00	0.00
23,700.0	89.97	180.47	9,793.1	-13,663.7	-322.1	13,667.5	0.00	0.00	0.00
23,800.0	89.97	180.47	9,793.2	-13,763.7	-323.0	13,767.4	0.00	0.00	0.00
23,900.0	89.97	180.47	9,793.2	-13,863.7	-323.8	13,867.4	0.00	0.00	0.00
24,000.0	89.97	180.47	9,793.3	-13,963.7	-324.6	13,967.4	0.00	0.00	0.00
24,100.0	89.97	180.47	9,793.3	-14,063.7	-325.4	14,067.4	0.00	0.00	0.00
24,200.0	89.97	180.47	9,793.4	-14,163.7	-326.3	14,167.4	0.00	0.00	0.00
24,300.0	89.97	180.47	9,793.4	-14,263.7	-327.1	14,267.4	0.00	0.00	0.00
24,400.0	89.97	180.47	9,793.5	-14,363.7	-327.9	14,367.4	0.00	0.00	0.00
24,500.0	89.97	180.47	9,793.5	-14,463.6	-328.8	14,467.4	0.00	0.00	0.00
24,600.0	89.97	180.47	9,793.6	-14,563.6	-329.6	14,567.4	0.00	0.00	0.00
24,700.0	89.97	180.47	9,793.6	-14,663.6	-330.4	14,667.4	0.00	0.00	0.00
24,800.0	89.97	180.47	9,793.7	-14,763.6	-331.2	14,767.4	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #802H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3124.7ft @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #802H	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)	
24,900.0	89.97	180.47	9,793.7	-14,863.6	-332.1	14,867.3	0.00	0.00	0.00	
25,000.0	89.97	180.47	9,793.8	-14,963.6	-332.9	14,967.3	0.00	0.00	0.00	
25,100.0	89.97	180.47	9,793.8	-15,063.6	-333.7	15,067.3	0.00	0.00	0.00	
25,200.0	89.97	180.47	9,793.9	-15,163.6	-334.6	15,167.3	0.00	0.00	0.00	
25,278.2	89.97	180.47	9,793.9	-15,241.8	-335.2	15,245.5	0.00	0.00	0.00	
Start 130.1 hold at 25278.2 MD										
25,300.0	89.97	180.47	9,793.9	-15,263.6	-335.4	15,267.3	0.00	0.00	0.00	
25,408.3	89.97	180.47	9,794.0	-15,371.9	-336.3	15,375.6	0.00	0.00	0.00	
TD at 25408.3										

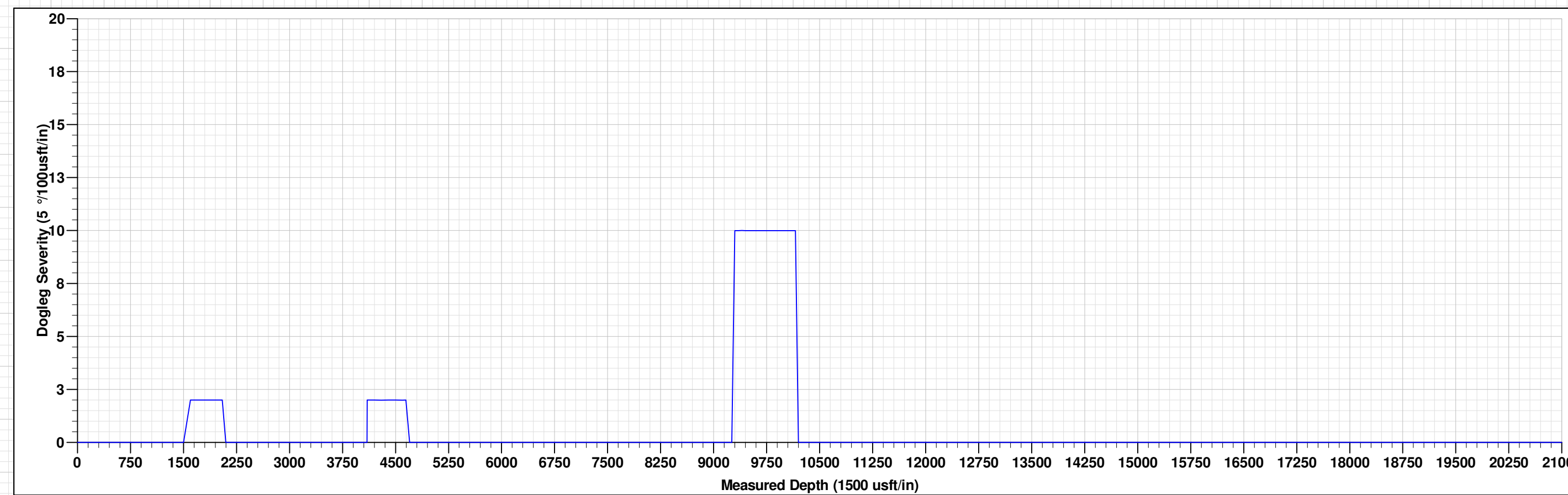
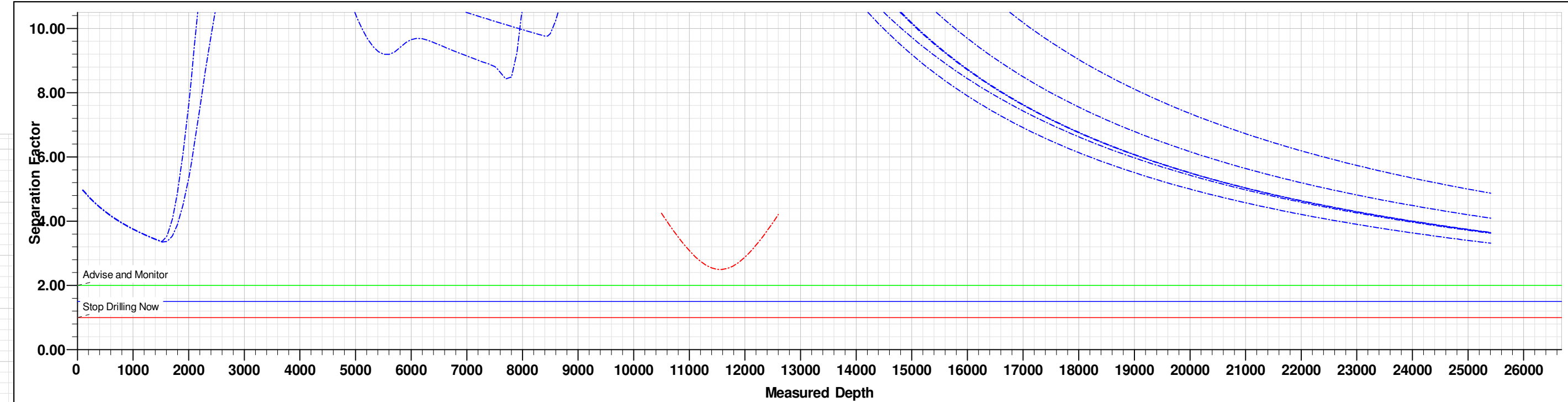
Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
VT (FLAMING SNAIL FE - plan hits target center - Circle (radius 25.0))	0.00	0.00	9,213.0	451.4	-205.3	403,075.10	544,417.10	32° 6' 29.118 N	104° 11' 23.573 W	
FTP (FLAMING SNAIL F - plan misses target center by 70.6usft at 9888.0usft MD (9723.8 TVD, 138.0 N, -207.9 E) - Circle (radius 50.0))	0.00	0.00	9,786.0	171.4	-207.8	402,795.10	544,414.60	32° 6' 26.347 N	104° 11' 23.607 W	
LTP (FLAMING SNAIL F - plan hits target center - Point)	0.00	0.00	9,793.9	-15,241.8	-335.2	387,381.90	544,287.20	32° 3' 53.811 N	104° 11' 25.325 W	
PBHL (FLAMING SNAIL - plan misses target center by 0.1usft at 25408.3usft MD (9794.0 TVD, -15371.9 N, -336.3 E) - Rectangle (sides W100.0 H15,543.8 D20.0))	0.03	0.47	9,794.0	-15,371.9	-336.2	387,251.80	544,286.20	32° 3' 52.524 N	104° 11' 25.339 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	
2,050.0	2,046.6	47.9	-21.8	Start 2047.4 hold at 2050.0 MD	
4,097.4	4,056.4	403.5	-183.5	Start Drop -2.00	
4,647.4	4,603.0	451.4	-205.3	Start 4610.0 hold at 4647.4 MD	
9,257.4	9,213.0	451.4	-205.3	Start DLS 10.00 TFO 180.47	
10,157.1	9,786.0	-121.2	-210.0	Start 15121.1 hold at 10157.1 MD	
25,278.2	9,793.9	-15,241.8	-335.2	Start 130.1 hold at 25278.2 MD	
25,408.3	9,794.0	-15,371.9	-336.3	TD at 25408.3	

WELL DETAILS: FLAMING SNAIL FEDERAL COM #802H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402623.70	544622.40	32° 6' 24.648 N	104° 11' 21.193 W

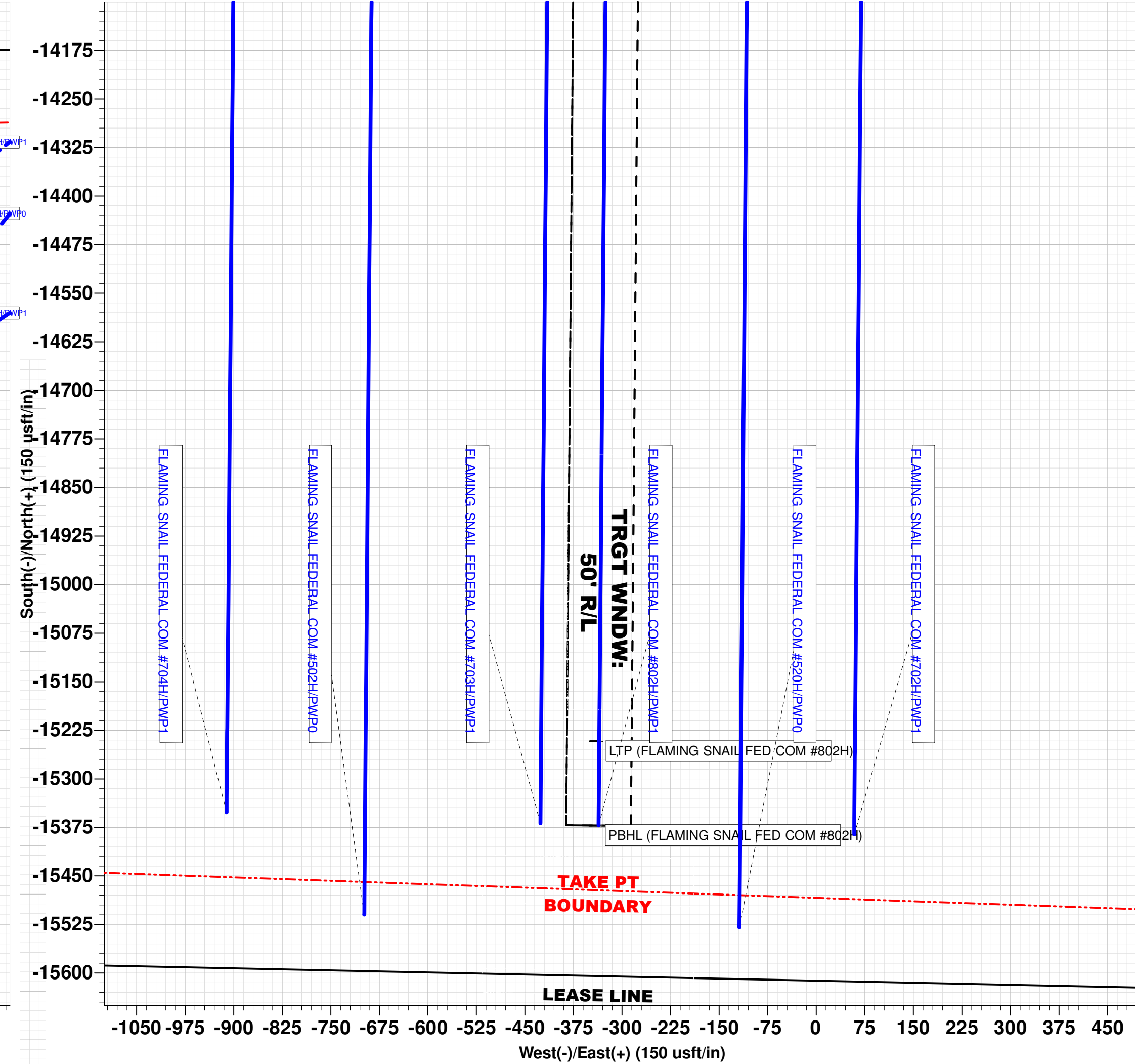
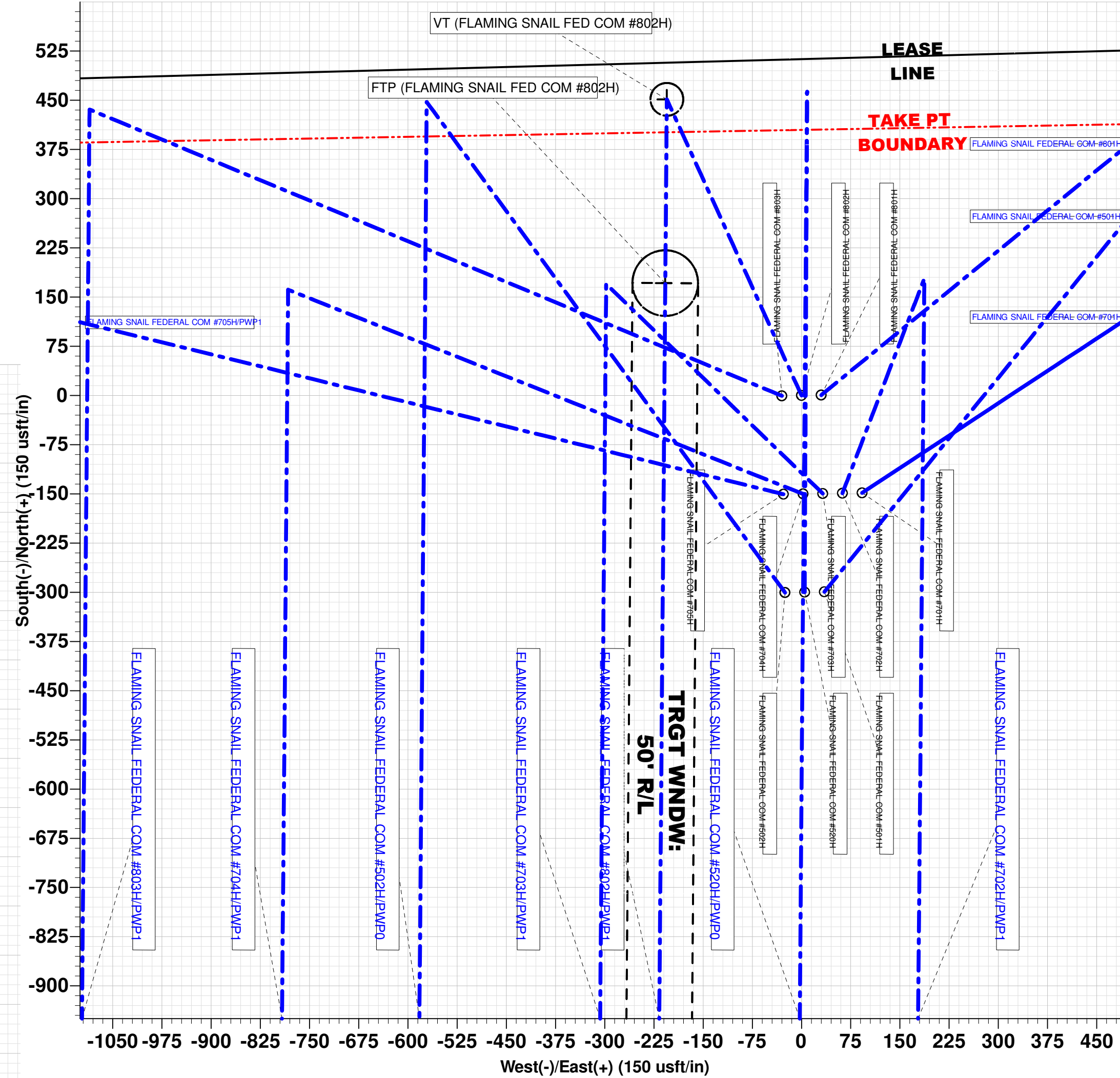
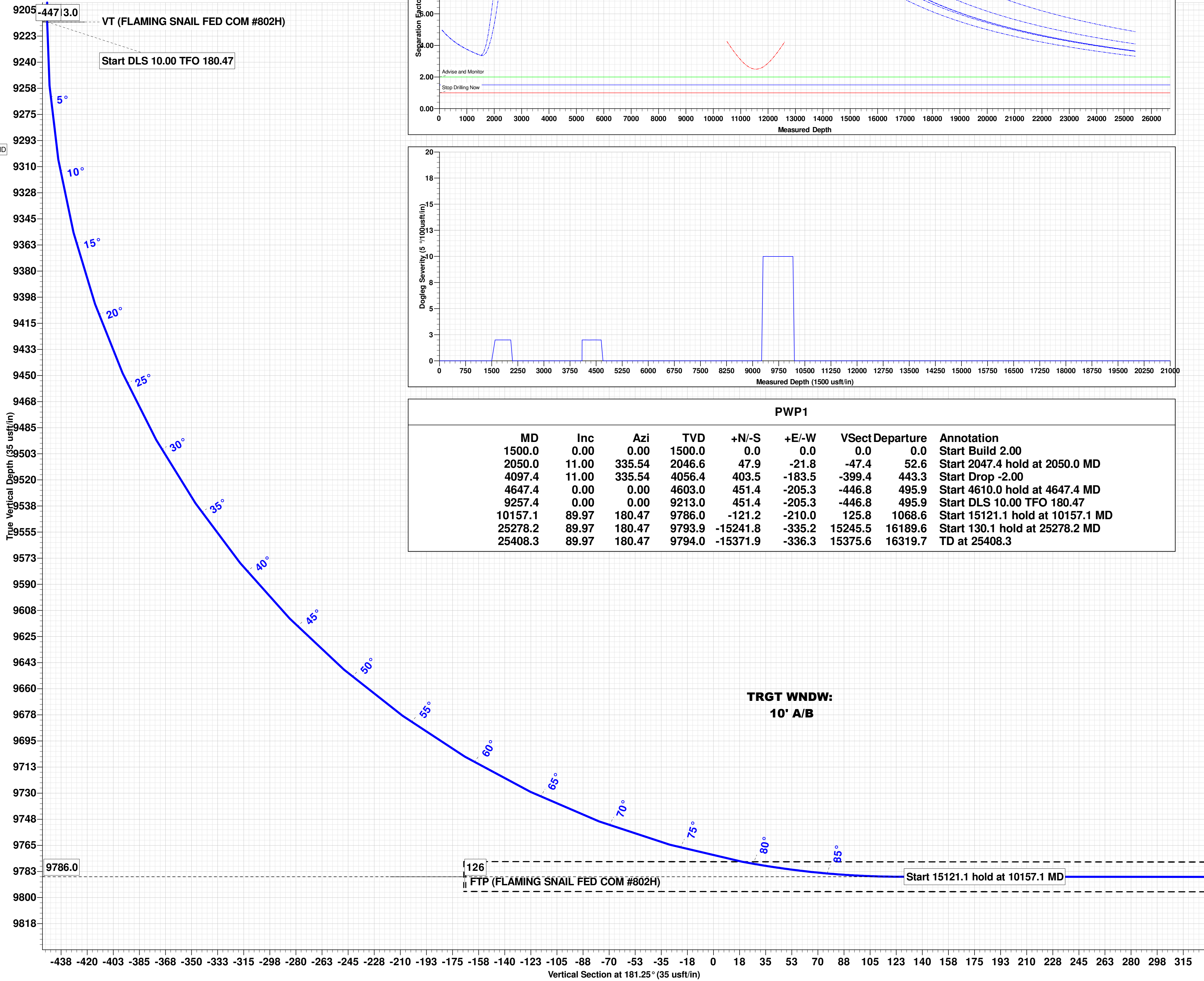
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
VT (FLAMING SNAIL FED COM #802H)	9213.0	451.4	-205.3	403075.10	544417.10	Circle (Radius: 25.0)
FTP (FLAMING SNAIL FED COM #802H)	9786.0	171.4	-207.8	402795.10	544414.60	Circle (Radius: 50.0)
LTP (FLAMING SNAIL FED COM #802H)	9793.9	-15241.8	-335.2	387381.90	544287.20	Point
PBHL (FLAMING SNAIL FED COM #802H)	9794.0	-15371.9	-336.2	387251.80	544286.20	Rectangle (Sides: L15543.8 W100.0)

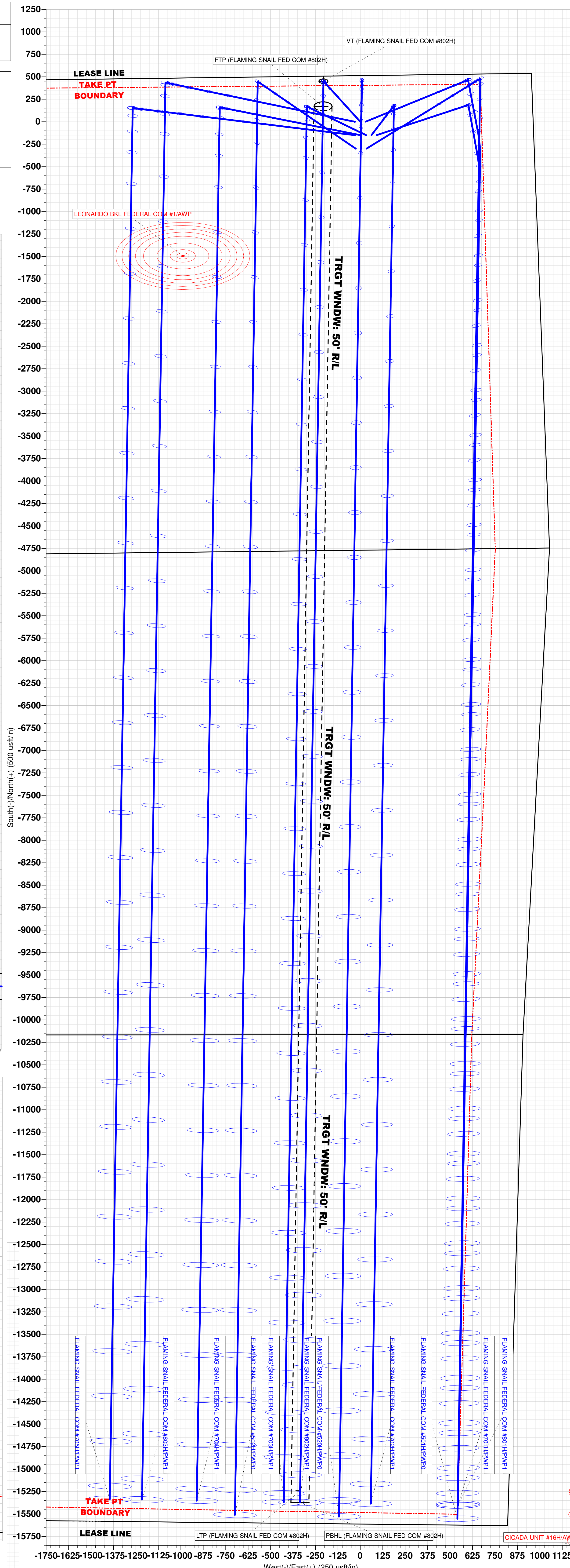


MD	Inc	Azi	TVD	+N/-S	+E/-W	VSect	Departure	Annotation
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00
2050.0	11.00	335.54	2046.6	47.9	-21.8	-47.4	52.6	Start 2047.4 hold at 2050.0 MD
4097.4	11.00	335.54	4056.4	403.5	-183.5	-399.4	443.3	Start Drop -2.00
4647.4	0.00	0.00	4603.0	451.4	-205.3	-446.8	495.9	Start 4610.0 hold at 4647.4 MD
9257.4	0.00	0.00	9213.0	451.4	-205.3	-446.8	495.9	Start DLS 10.00 TFO 180.47
10157.1	89.97	180.47	9786.0	-121.2	-210.0	125.8	1068.6	Start 15121.1 hold at 10157.1 MD
25278.2	69.97	180.47	9793.9	-15241.8	-335.2	15245.5	16189.6	Start 130.1 hold at 25278.2 MD
25408.3	69.97	180.47	9794.0	-15371.9	-336.3	15375.6	16319.7	TD at 25408.3

TRGT WNDW:
10' A/B



TRGT WNDW:
10' A/B



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM92167
LOCATION:	Section 28, T.25 S, R.27 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Flaming Snail Fed Com 802H
SURFACE HOLE FOOTAGE:	505'/N & 1005'/E
BOTTOM HOLE FOOTAGE:	200'/S & 1210'/E

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 **540** 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 may be 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 260974

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 260974
	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

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 263756

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 263756
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	None	9/11/2023