

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 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)



Approval Date: 08/25/2023

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'

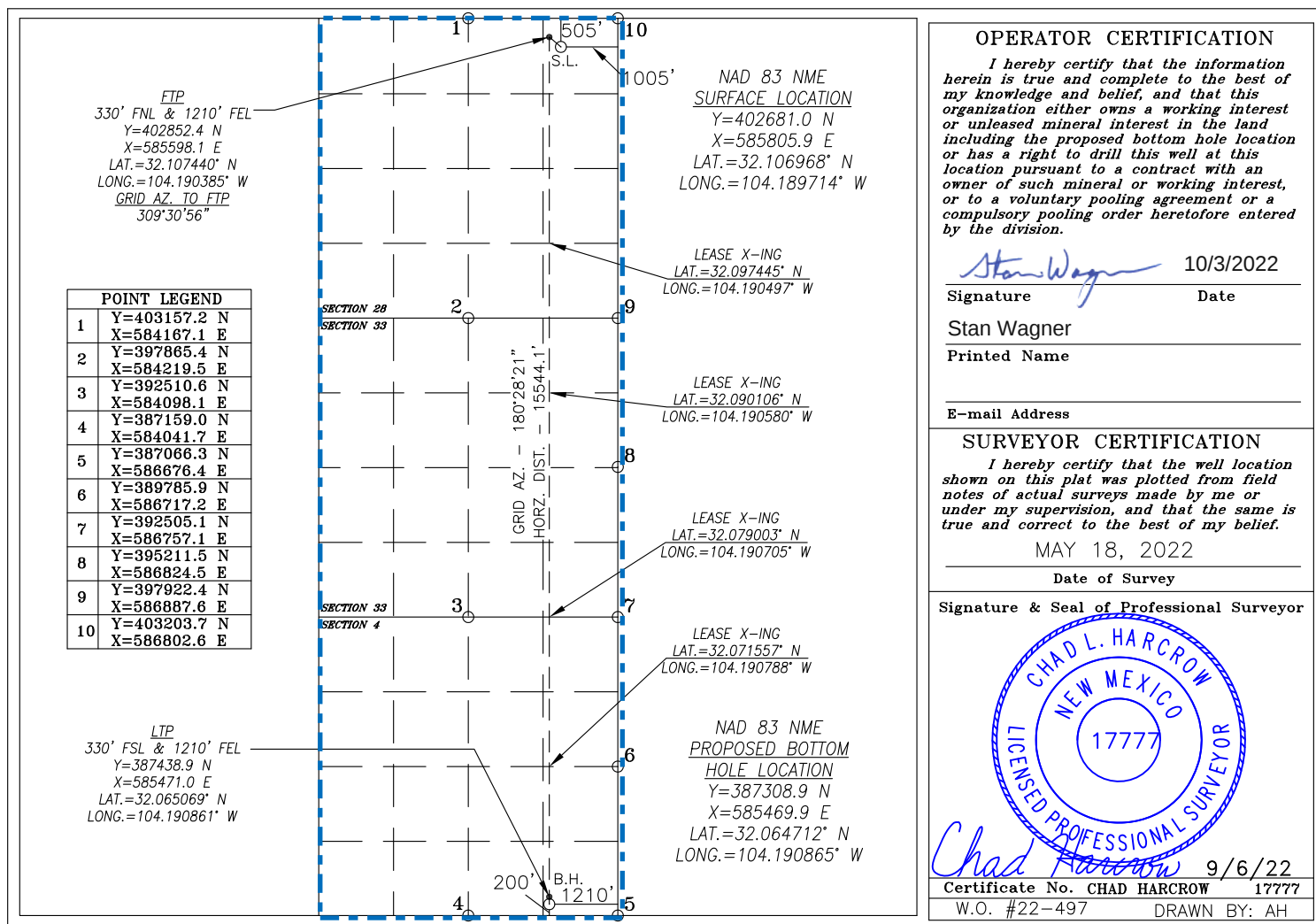
Surface Location

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

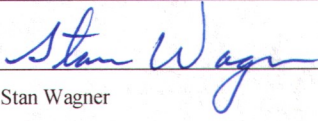
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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.

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.

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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
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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

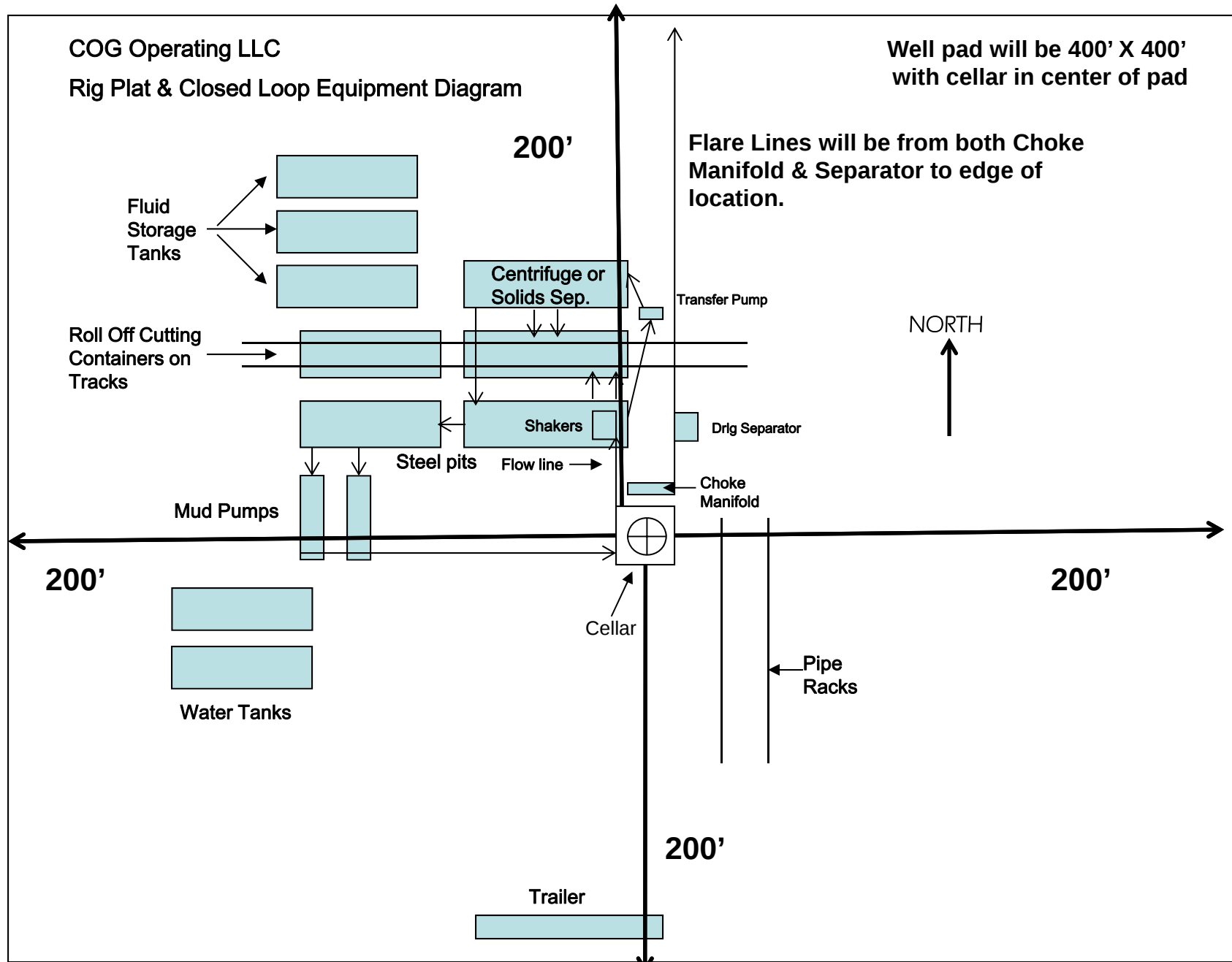


Exhibit 1

"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												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
200.0	200.0	204.2	204.2	3.1	3.0	173.37	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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)	Factor	
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: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-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
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	5,666.9	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
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													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
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											Offset Well Error:	3.0 usft		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,940.0	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		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	
7,400.0	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	Offset	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
2,500.0	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	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)		
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 (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
7,315.0	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	
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)					
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	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)		
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	
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (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	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
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	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
19,570.0	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	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)		
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: 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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
0.0	0.0	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
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
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
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
4,900.0	4,855.6	4,880.6	4,860.5	16.2	15.7	124.83	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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)		
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											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
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

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	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)		
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		
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
16,910.0	9,789.5	15,812.3	8,985.0	56.5	54.7	-26.02	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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	-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:										
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
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											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
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)	Between Centres (usft)	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	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	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	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
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: 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:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	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:														
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	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	8,448.6	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
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

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		
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
14,440.0	9,788.2	13,333.2	8,974.4	38.6	38.0	6.28	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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	6.28	-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

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	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	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		
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	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			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		
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		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance 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
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	2,478.9	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 Depth (usft)	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 #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 Toolface (°)	Offset Wellbore Centre		Distance		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
4,900.0	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	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	7,439.6	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)	
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	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
17,005.0	9,789.6	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	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	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
24,700.0	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	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
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	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)		
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		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)			
11,900.0	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	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)		
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	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	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

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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 #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	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		
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
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance		Rule Assigned:			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
24,605.0	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

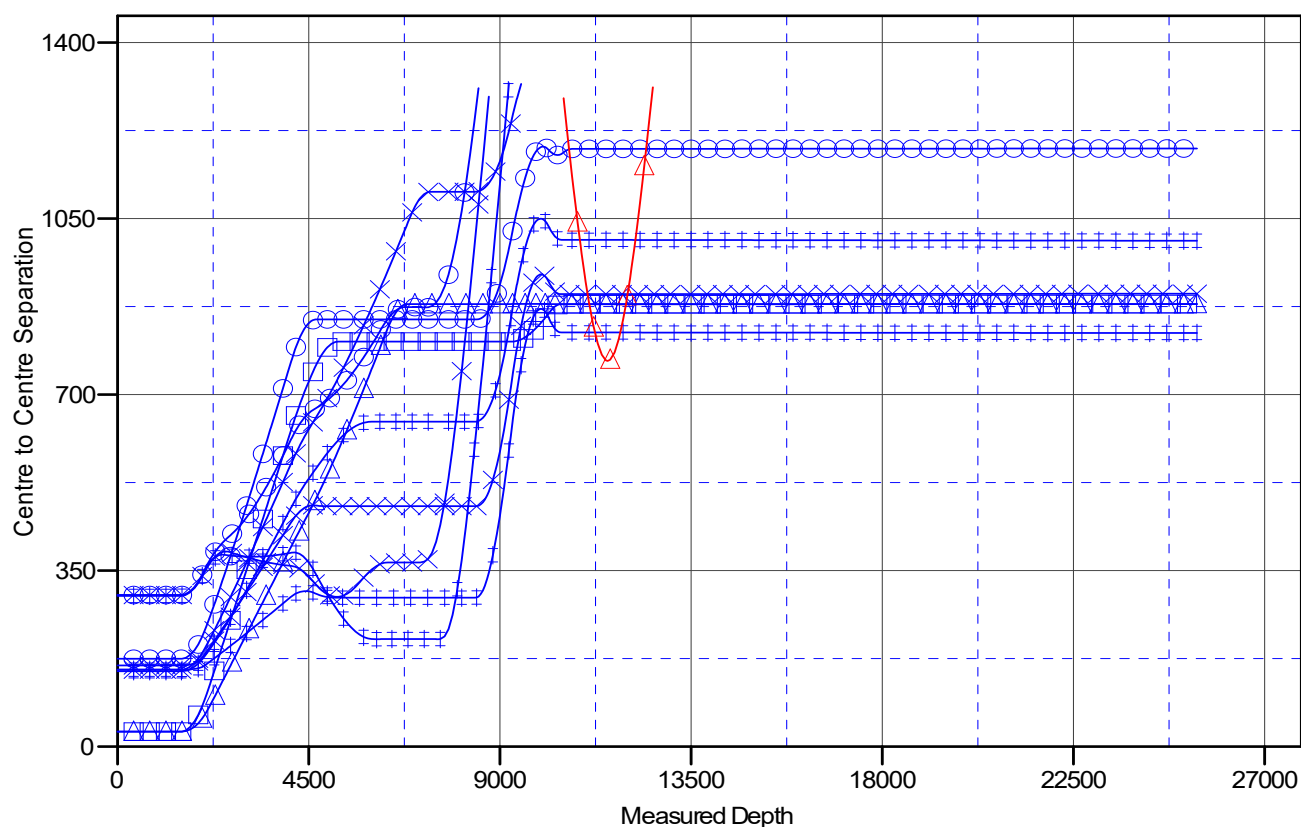
Central Meridian is 104° 20' 0.000 W

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 @ 3156.7usf

Offset Depths are relative to Offset Datum

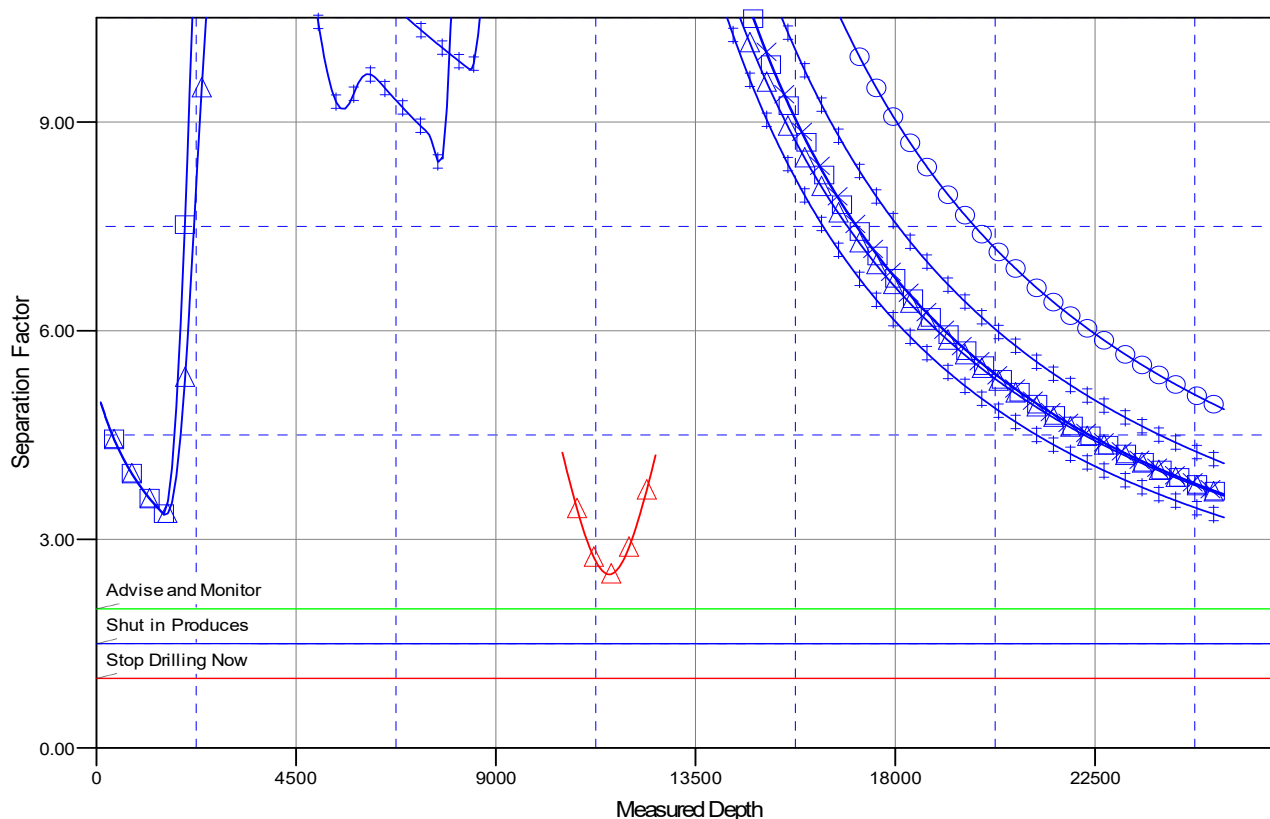
Central Meridian is 104° 20' 0.000 W

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										

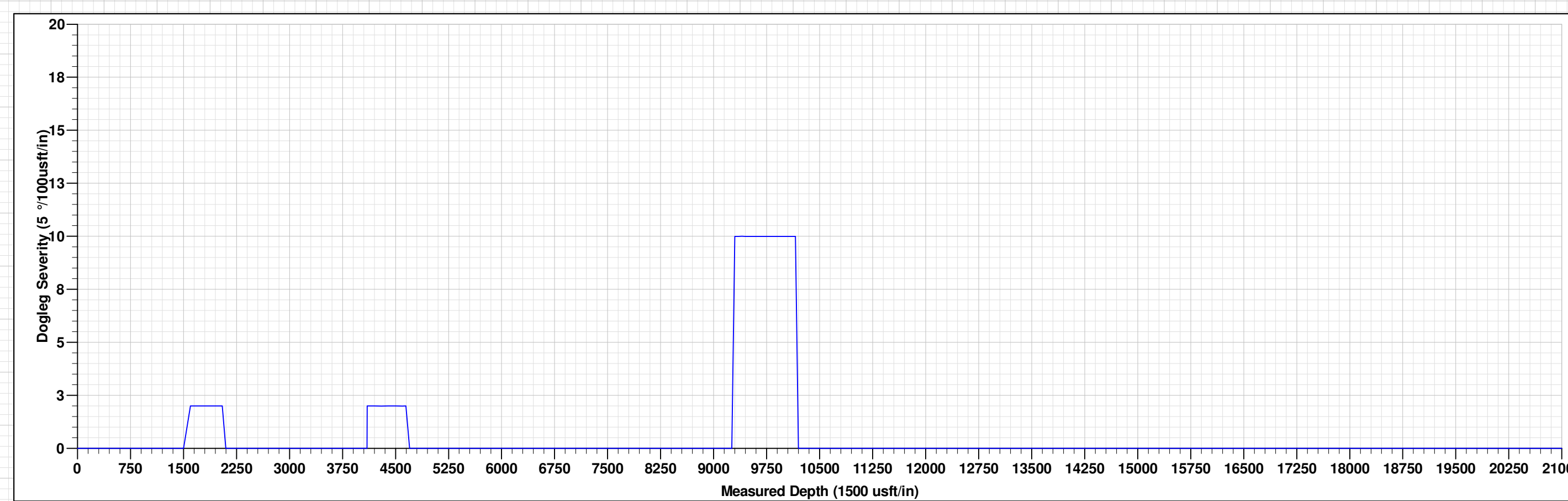
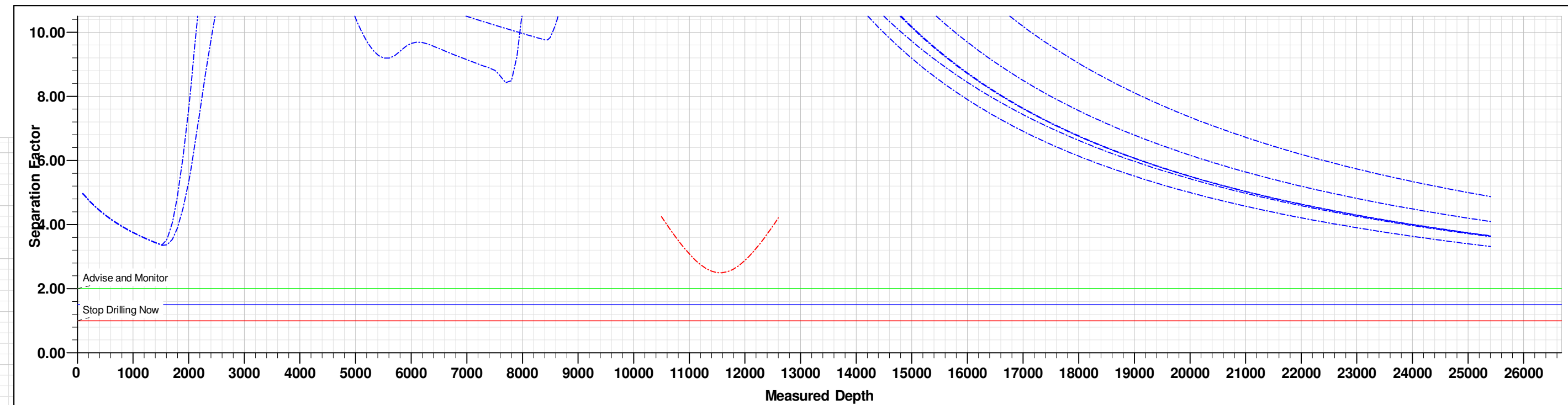
Design Targets										
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
VT (FLAMING SNAIL FE - plan hits target center - Circle (radius 25.0))	0.00	0.00	9,213.0	451.4	-205.3	403,075.10	544,417.10	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

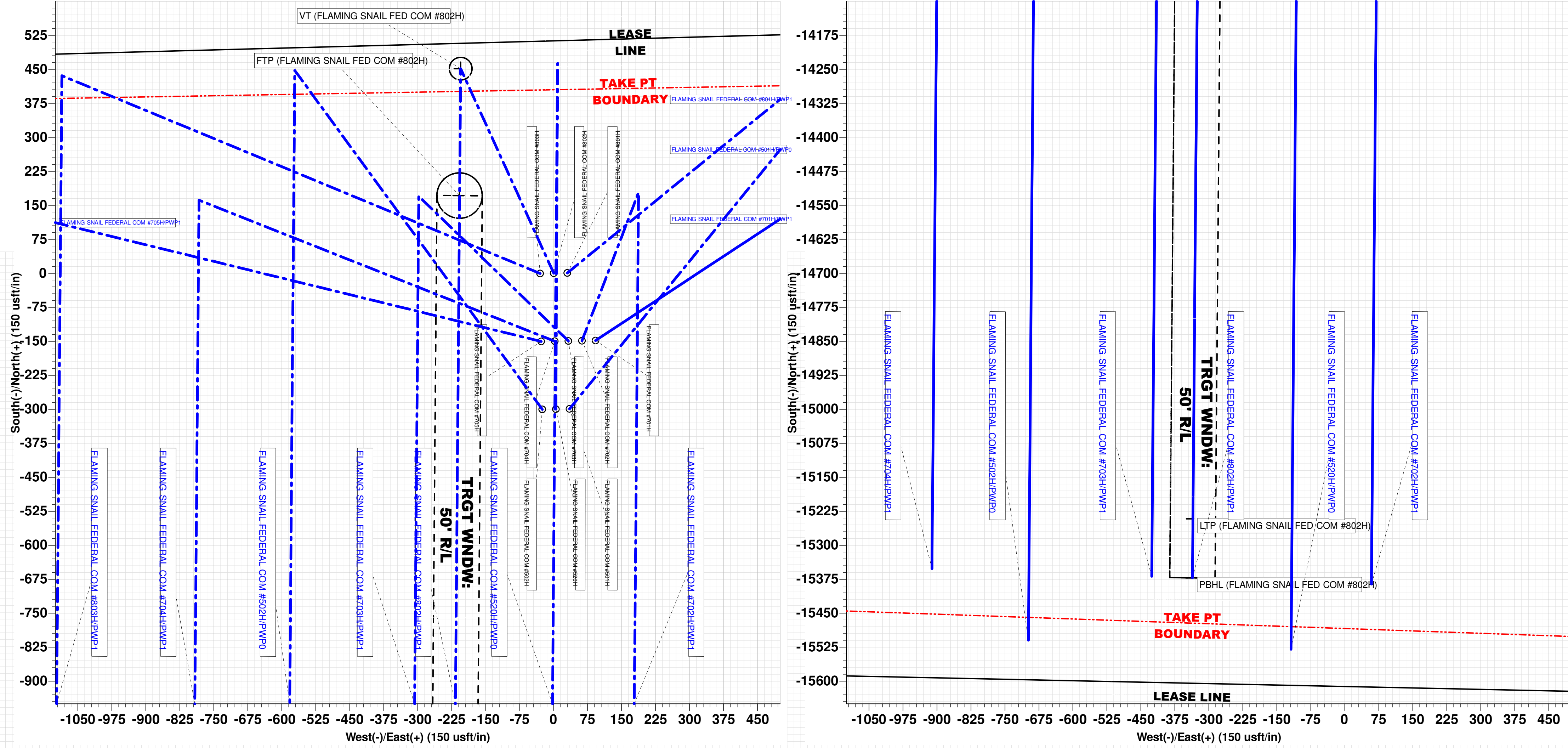
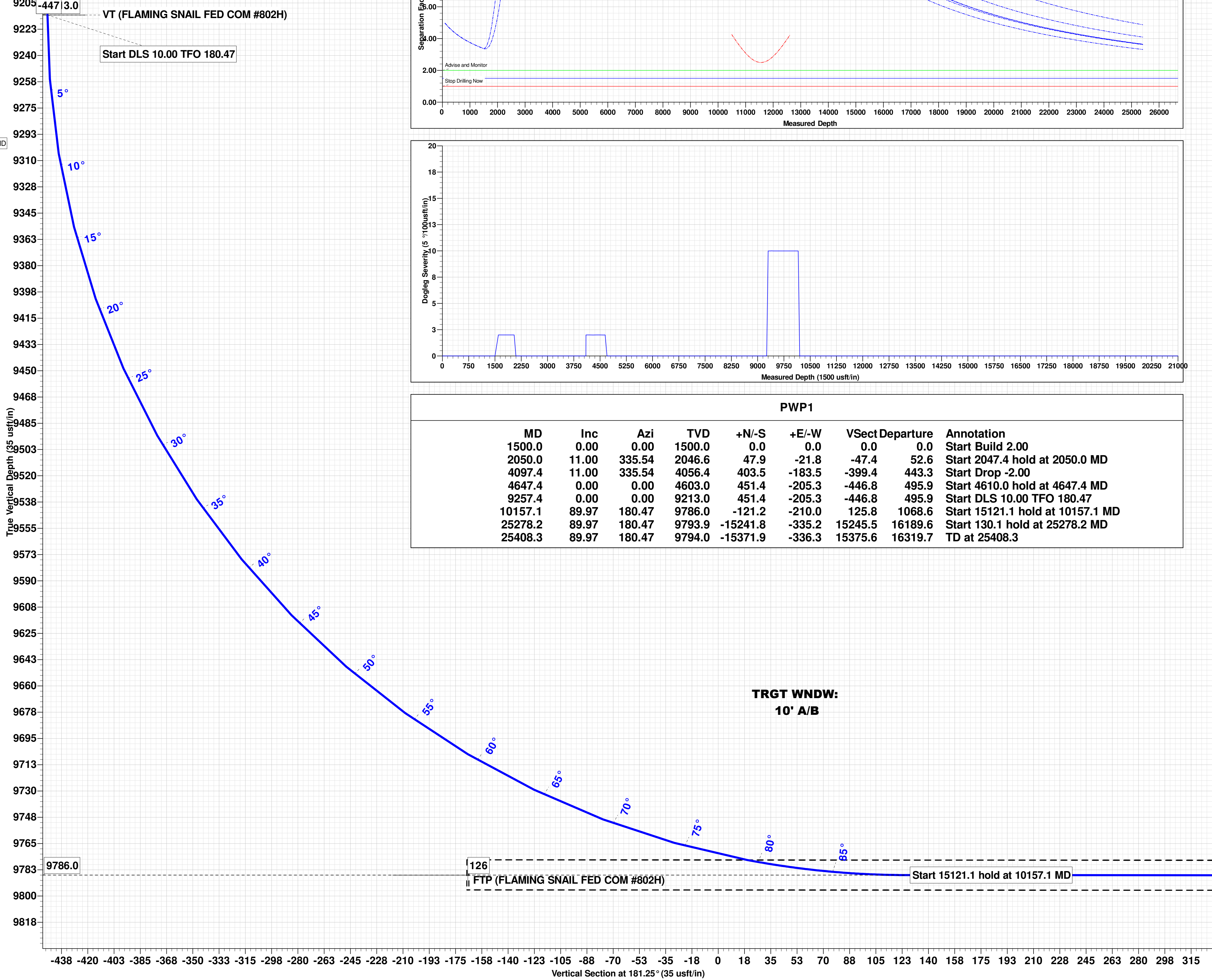
DESIGN TARGET DETAILS

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)

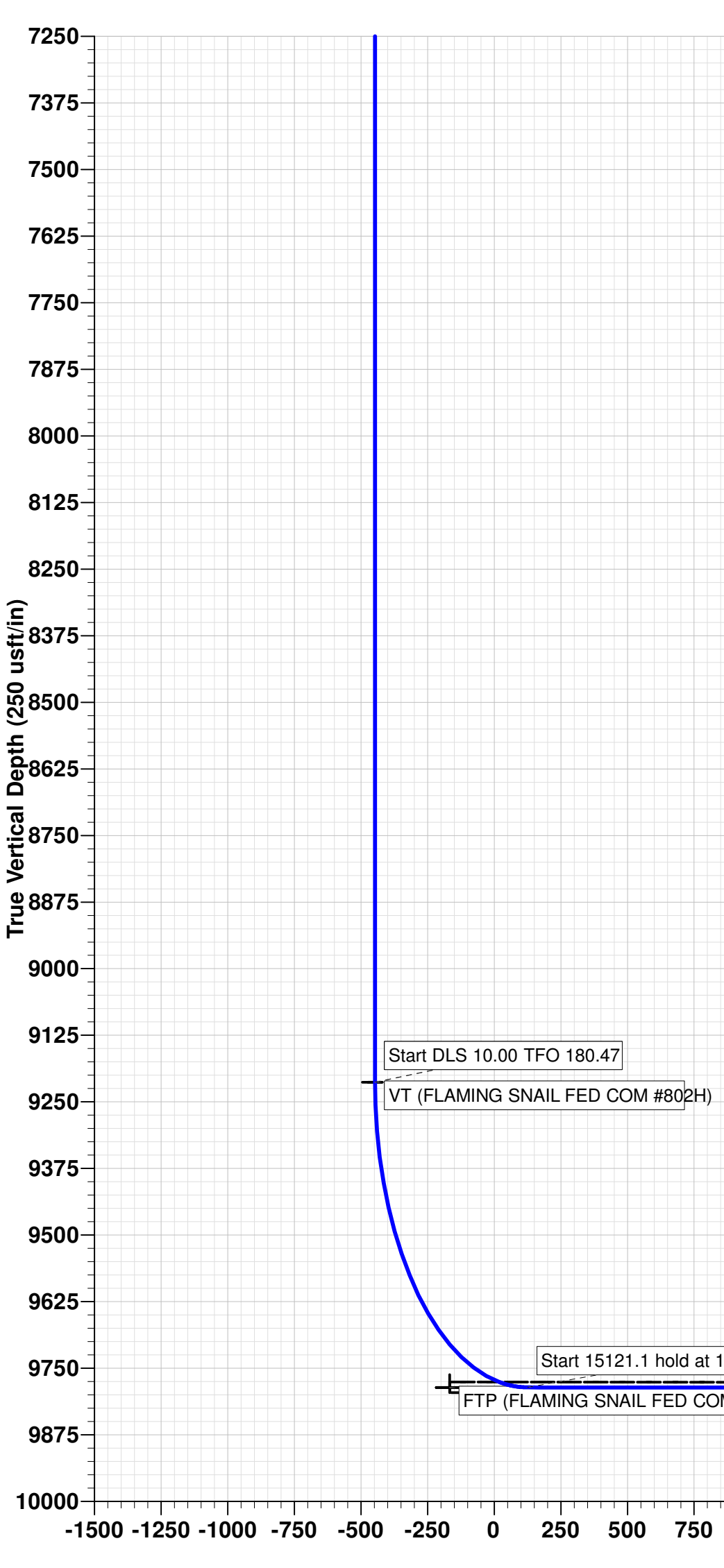
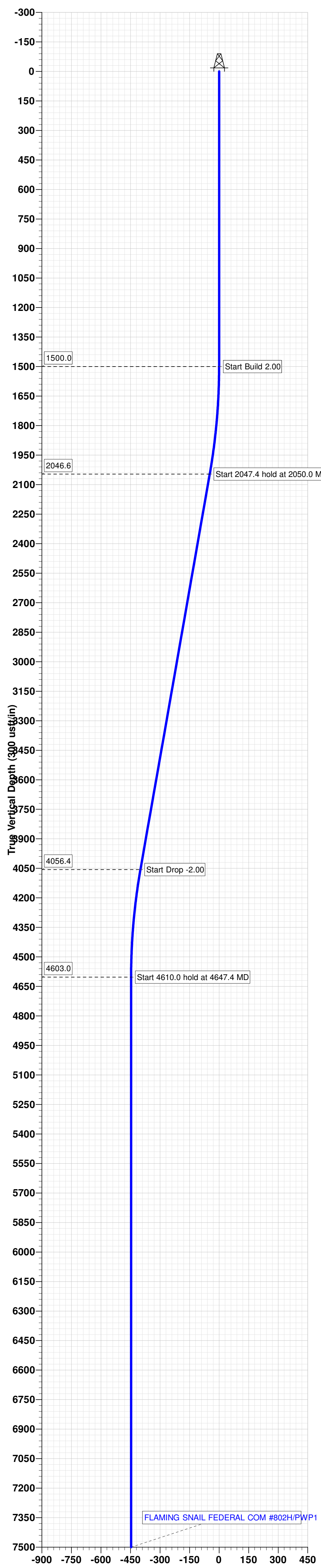
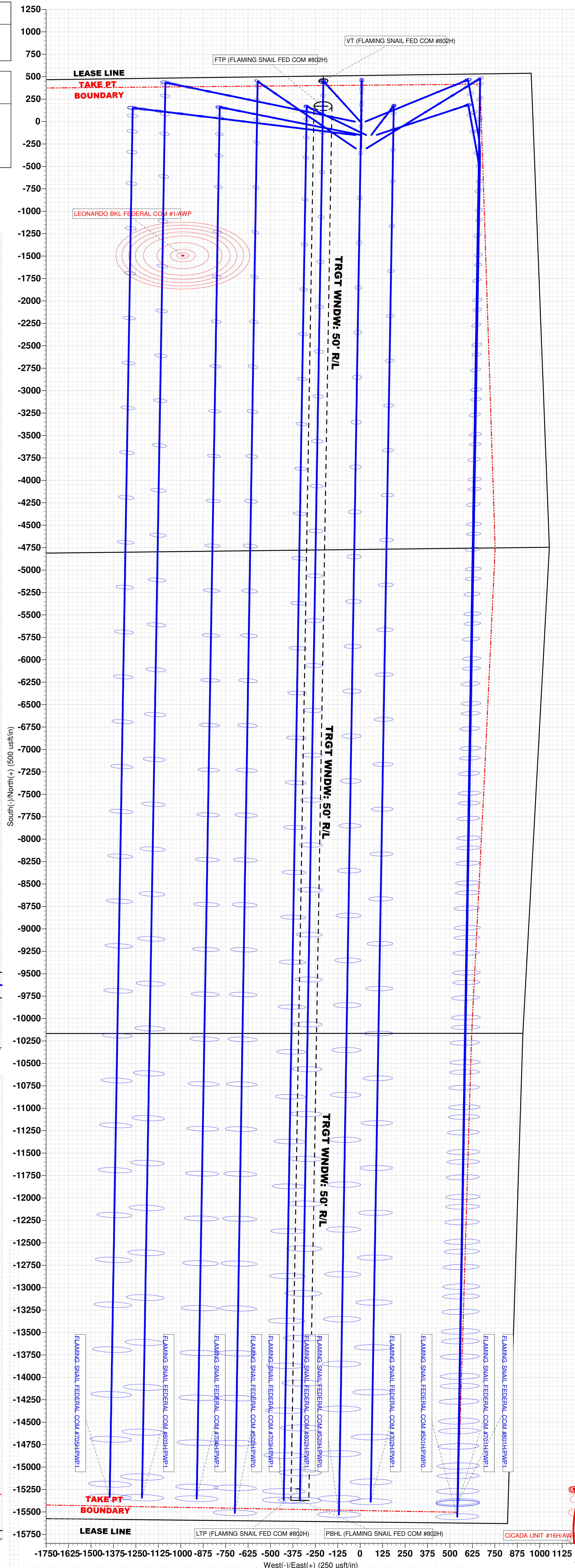
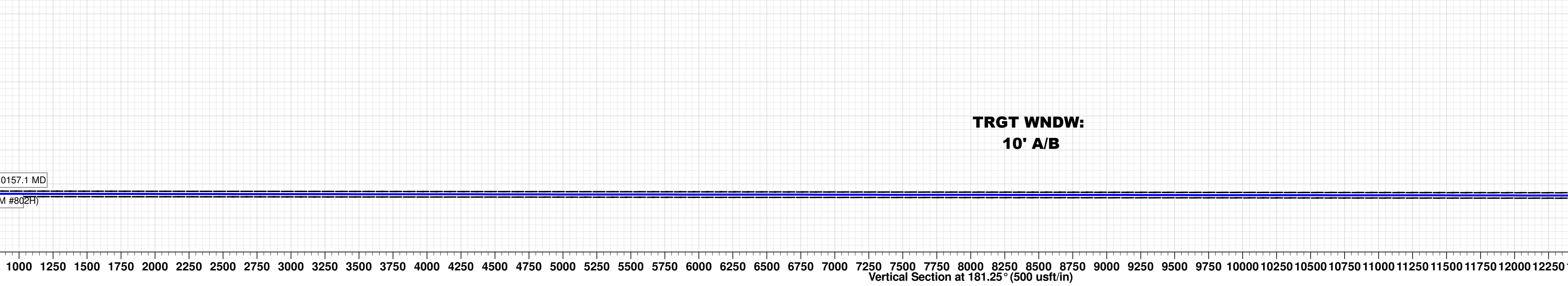


MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00
2050.0	11.00	335.54	2046.6	47.9	-21.8	-47.4	52.6	Start 2047.4 hold at 2050.0 MD
4097.4	11.00	335.54	4056.4	403.5	-183.5	-399.4	443.3	Start Drop -2.00
4647.4	0.00	0.00	4603.0	451.4	-205.3	-446.8	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 maybe required.**
- Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

Option 2:

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

- ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

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

- a. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- b. Manufacturer representative shall install the test plug for the initial BOP test.
- c. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

- d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172 must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

- The operator will submit a Communitization Agreement to the Santa Fe Office, 301 Dinosaur Trail Santa Fe, New Mexico 87508, at least 90 days before the anticipated date of first production from a well subject to a spacing order issued by the New Mexico Oil Conservation Division. The Communitization Agreement will include the signatures of all working interest owners in all Federal and Indian leases subject to the Communitization Agreement (i.e., operating rights owners and lessees of record), or certification that the operator has obtained the written signatures of all such owners and will make those signatures available to the BLM immediately upon request.
- The operator will submit an as-drilled survey well plat of the well completion, but are not limited to, those specified in 43 CFR 3171 and 3172.
- If the operator does not comply with this condition of approval, the BLM may take enforcement actions that include, but are not limited to, those specified in 43 CFR 3163.1.
- In addition, the well sign shall include the surface and bottom hole lease numbers. When the Communitization Agreement number is known, it shall also be on the sign.

GENERAL REQUIREMENTS

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

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

☒ Eddy County

Email **or** call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, BLM_NM_CFO_DrillingNotifications@BLM.GOV
(575) 361-2822

☒ Lea County

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.

- a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
- b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per **43 CFR part 3170 Subpart 3172** as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

1. Changes to the approved APD casing program need prior approval if the items substituted are of lesser grade or different casing size or are Non-API. The Operator can exchange the components of the proposal with that of superior strength (i.e. changing from J-55 to N-80, or from 36# to 40#). Changes to the approved cement program need prior approval if the altered cement plan has less volume or strength or if the changes are substantial (i.e. Multistage tool, ECP, etc.). The initial wellhead installed on the well will remain on the well with spools used as needed.
2. Wait on cement (WOC) for Potash Areas: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi for all cement blends, 2) until cement has been in place at least 24 hours. WOC time will be recorded in the driller's log. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours.

WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in **43 CFR part 3170 Subpart 3172** and **API STD 53 Sec. 5.3**.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.
3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per **43 CFR part 3170 Subpart 3172**.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS 8/2/2023

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

- a. The hazards and characteristics of hydrogen sulfide (H₂S).
- b. The proper use and maintenance of personal protective equipment and life support systems.
- c. The proper use of H₂S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
- d. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

- a. The effects of H₂S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
- b. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
- c. The contents and requirements of the H₂S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H₂S zone (within 3 days or 500 feet) and weekly H₂S and well control drills for all personnel in each crew. The initial training session shall include a review of the site specific H₂S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site. All personnel will be required to carry documentation that they have received the proper training.

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

Note: All H₂S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H₂S. If H₂S greater than 100 ppm is encountered in the gas stream we will shut in and install H₂S equipment.

- a. Well Control Equipment:
 - Flare line.
 - Choke manifold with remotely operated choke.
 - Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
 - Auxiliary equipment to include: annular preventer, mud-gas separator, rotating head.

- b. Protective equipment for essential personnel:
Mark II Surviveair 30-minute units located in the dog house and at briefing areas.
- c. H2S detection and monitoring equipment:
2 - portable H2S monitor positioned on location for best coverage and response. These units have warning lights and audible sirens when H2S levels of 20 ppm are reached.
- d. Visual warning systems:
Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used, when appropriate. See example attached.
- e. Mud Program:
The mud program has been designed to minimize the volume of H2S circulated to the surface.
- f. Metallurgy:
All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.
- g. Communication:
Company vehicles equipped with cellular telephone.

COG OPERATING LLC has conducted a review to determine if an H2S contingency plan is required for the above referenced well. We were able to conclude that any potential hazardous volume would be minimal. H2S concentrations of wells in this area from surface to TD are low enough; therefore, we do not believe that an H2S contingency plan is necessary.

W A R N I N G

**YOU ARE ENTERING AN H₂S AREA
AUTHORIZED PERSONNEL ONLY**

- 1. BEARDS OR CONTACT LENSES NOT ALLOWED***
- 2. HARD HATS REQUIRED***
- 3. SMOKING IN DESIGNATED AREAS ONLY***
- 4. BE WIND CONSCIOUS AT ALL TIMES***
- 5. CK WITH COG OPERATING LLC FOREMAN AT MAIN OFFICE***

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

	<u>OFFICE</u>	<u>MOBILE</u>
COG OPERATING LLC OFFICE	575-748-6940	
Dallas Daley	432-818-2329	432-631-6977

EMERGENCY RESPONSE NUMBERS

	<u>OFFICE</u>
STATE POLICE	575-748-9718
EDDY COUNTY SHERIFF	575-746-2701
EMERGENCY MEDICAL SERVICES (AMBULANCE)	911 or 575-746-2701
EDDY COUNTY EMERGENCY MANAGEMENT (HARRY BURGESS)	575-887-9511
STATE EMERGENCY RESPONSE CENTER (SERC)	575-476-9620
CARLSBAD POLICE DEPARTMENT	575-885-2111
CARLSBAD FIRE DEPARTMENT	575-885-3125
NEW MEXICO OIL CONSERVATION DIVISION	575-748-1283
INDIAN FIRE & SAFETY	800-530-8693
HALLIBURTON SERVICES	800-844-8451

District I

1625 N. French Dr., Hobbs, NM 88240
Phone:(575) 393-6161 Fax:(575) 393-0720

District II

811 S. First St., Artesia, NM 88210
Phone:(575) 748-1283 Fax:(575) 748-9720

District III

1000 Rio Brazos Rd., Aztec, NM 87410
Phone:(505) 334-6178 Fax:(505) 334-6170

District IV

1220 S. St Francis Dr., Santa Fe, NM 87505
Phone:(505) 476-3470 Fax:(505) 476-3462

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

CONDITIONS

Action 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