

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 801H 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 / 975 FEL / LAT 32.10697 / LONG -104.189618 At proposed prod. zone SESE / 200 FSL / 330 FEL / LAT 32.064623 / LONG -104.188026		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. 0 feet 19. Proposed Depth 9812 feet / 25515 feet 20. BLM/BIA Bond No. in file FED: NMB000215		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3125 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 / 975 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.10697 / LONG: -104.189618 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 330 FNL / 330 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107479 / LONG: -104.187543 (TVD: 9745 feet, MD: 9950 feet)

PPP: SESE / 1319 FSL / 330 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097491 / LONG: -104.187656 (TVD: 9807 feet, MD: 13811 feet)

PPP: SENE / 1321 FNL / 330 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.09014 / LONG: -104.187738 (TVD: 9808 feet, MD: 16451 feet)

PPP: NENE / 1 FNL / 330 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.078995 / LONG: -104.187864 (TVD: 9810 feet, MD: 20411 feet)

BHL: SESE / 200 FSL / 330 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064623 / LONG: -104.188026 (TVD: 9812 feet, MD: 25515 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) 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) 476-3460 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 801H
OGRID No. 229137	Operator Name COG OPERATING, LLC		Elevation 3125.3'

Surface Location

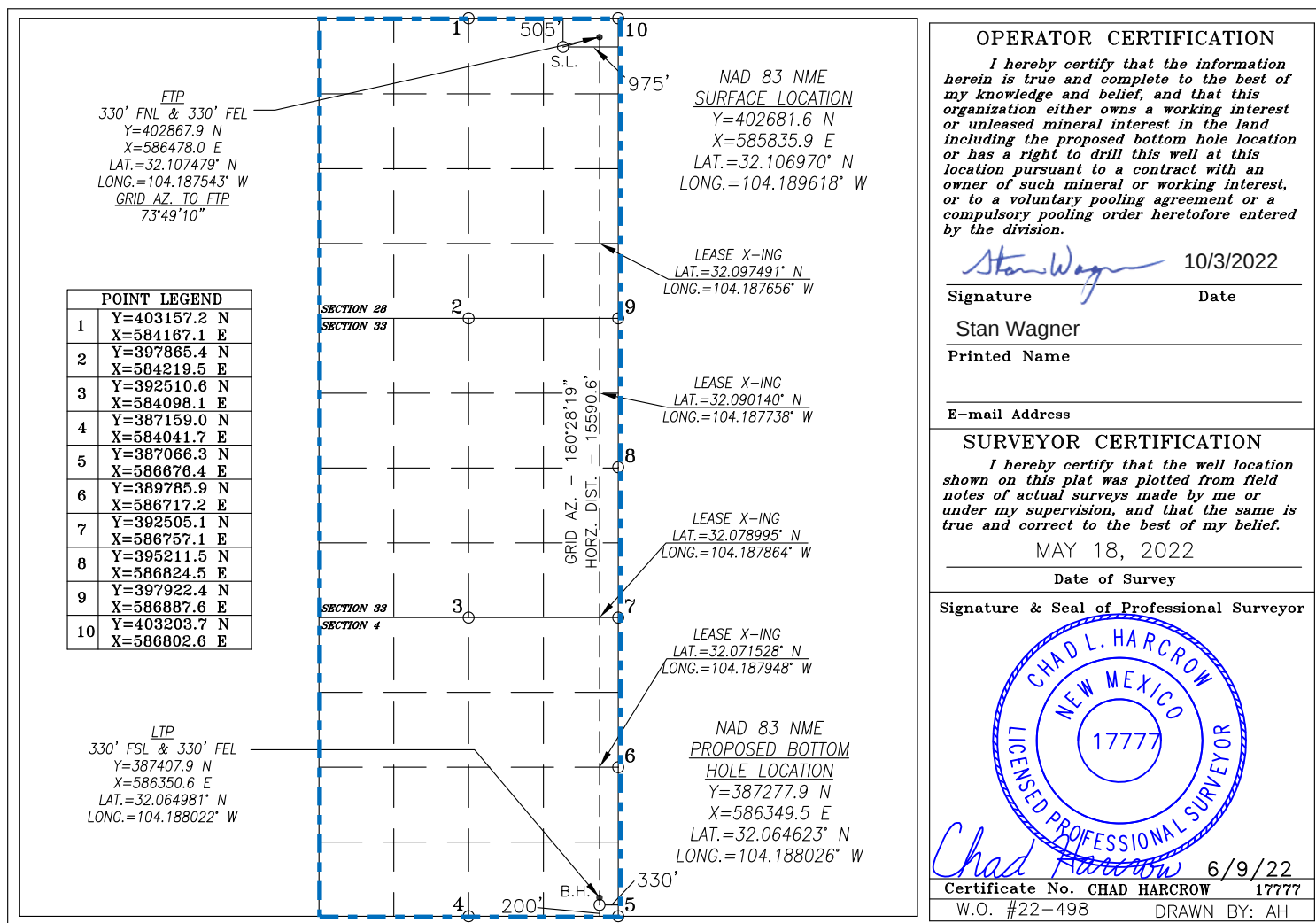
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	25-S	27-E		505	NORTH	975	EAST	EDDY

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	330	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
1920	Infill	Com	

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

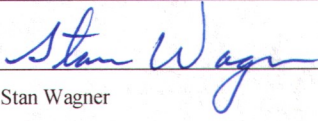
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 801H

1. Geologic Formations

TVD of target	9,812' EOL	Pilot hole depth	NA
MD at TD:	25,515'	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	573	Salt	
Base of Salt	1938	Salt	
Lamar	2171	Salt Water	
Bell Canyon	2220	Salt Water	
Cherry Canyon	3025	Oil/Gas	
Brushy Canyon	4142	Oil/Gas	
Bone Spring Lime	5723	Oil/Gas	
1st Bone Spring Sand	6668	Oil/Gas	
2nd Bone Spring Sand	7171	Oil/Gas	
3rd Bone Spring Sand	8498	Oil/Gas	
Wolfcamp	8829	Oil/Gas	
Wolfcamp C	9666	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	1.27	4.18	4.41
8.750"	5500	9200	7.625"	29.7	HCP110	W513	1.56	1.75	3.44	2.04
6.75"	0	8700	5.5"	23	P110	TXP BTC	2.57	3.04	3.64	3.64
6.75"	8700	25,515	5.5"	23	P110	W441	2.28	2.69	3.23	2.93
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 801H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

COG Operating, LLC - Flaming Snail Federal Com 801H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	258	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	600	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	404	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1586	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	8,700'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Flaming Snail Federal Com 801H

4. Pressure Control Equipment

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

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

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

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

COG Operating, LLC - Flaming Snail Federal Com 801H

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 801H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	6380 psi at 9812' 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

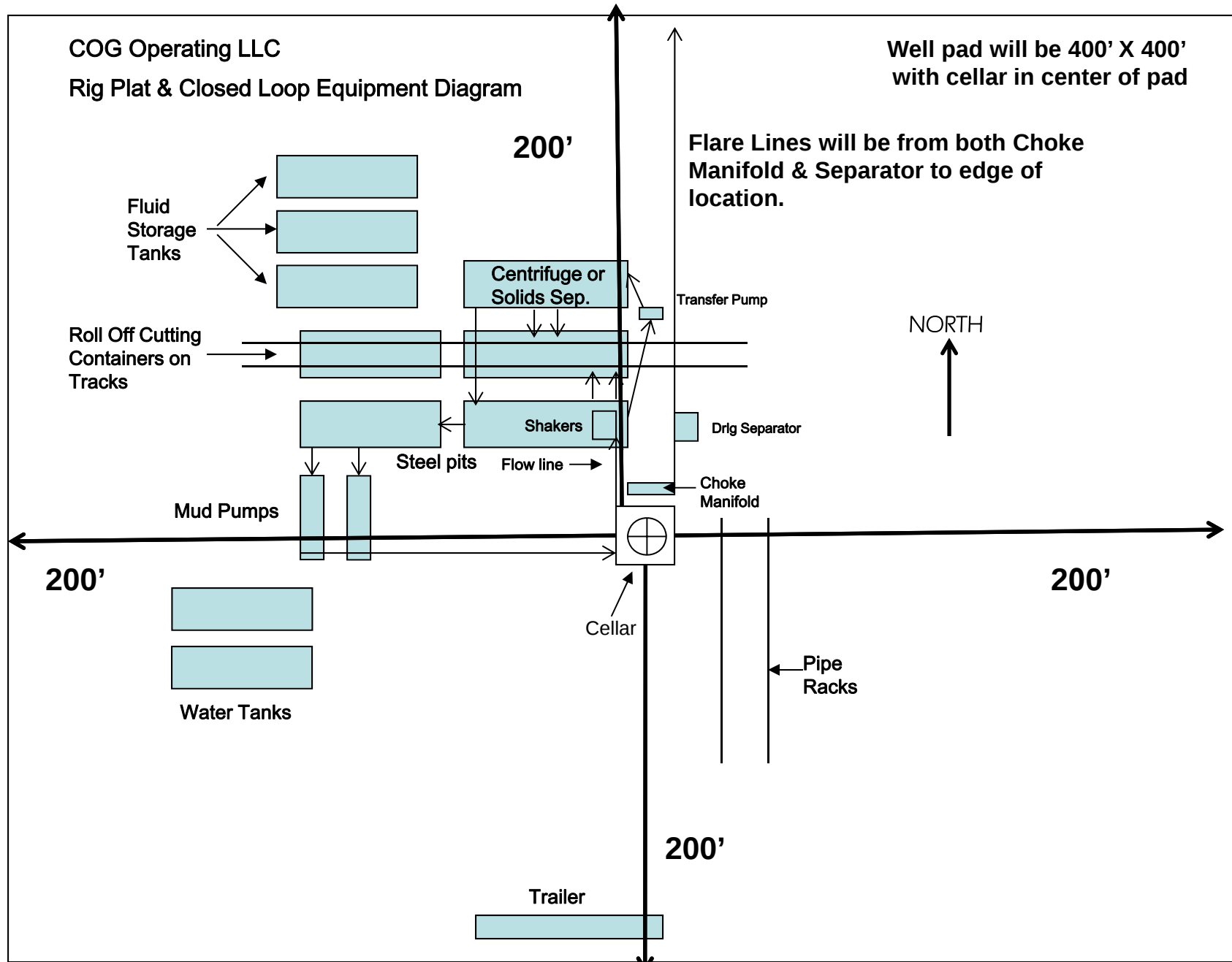


Exhibit 1

"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 #801H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	9,316.4	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
9,316.4	25,515.3	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 #13H - OWB - AWP						Out of range
CICADA UNIT #14H - OWB - AWP	25,515.5	9,818.0	1,101.9	943.1	6.936	CC, ES, SF
CICADA UNIT #15H - OWB - AWP						Out of range
CICADA UNIT #16H - OWB - AWP	25,515.5	9,909.0	690.4	536.3	4.481	CC, ES, SF
CICADA UNIT #17H - OWB - AWP						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	6,256.0	6,289.1	43.7	20.1	1.848	Advise and Monitor, CC
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	6,365.0	6,396.8	47.7	18.8	1.650	Advise and Monitor, ES
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	6,400.0	6,431.6	50.1	19.2	1.624	Advise and Monitor, SF
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	1,500.0	1,504.3	306.1	297.9	37.105	CC, ES
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	2,660.0	2,684.2	442.3	429.0	33.477	SF
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,500.0	1,503.9	301.6	293.3	36.484	CC, ES
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	7,800.0	7,758.6	599.4	569.5	20.061	SF
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,507.6	1,511.7	161.5	152.2	17.214	CC
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,600.0	1,605.1	161.7	152.1	16.900	ES
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	25,515.5	24,405.9	818.0	568.9	3.284	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	2,045.2	2,063.6	139.1	127.5	11.972	CC, ES
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	25,515.5	24,320.8	958.6	712.6	3.896	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,711.1	1,722.6	149.5	139.3	14.675	CC, ES
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	25,515.5	24,298.5	1,280.0	1,036.6	5.260	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,501.4	1,505.5	153.1	143.7	16.234	CC
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,520.0	1,524.3	153.1	143.7	16.158	ES
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,710.0	1,715.4	157.9	147.8	15.648	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,436.1	1,440.0	161.7	152.5	17.521	CC
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,500.0	1,503.9	161.7	152.3	17.247	ES
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,700.0	1,701.7	169.0	158.9	16.850	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
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,500.0	1,499.4	30.0	21.1	3.379	CC, ES
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,520.0	1,519.3	30.1	21.2	3.370	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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 #803H - OWB - PWP1	1,500.0	1,499.4	59.9	51.0	6.748	CC, ES
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,520.0	1,519.0	60.0	51.1	6.713	SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1						Out of range
LEONARDO BKL FEDERAL COM #1 - OWB - AWP						Out of range
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW						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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #13H - OWB - AWP	25,515.5	10,014.3				Out of Range @TD
CICADA UNIT #14H - OWB - AWP	25,515.5	9,818.0	1,101.9	943.1	6.936	CC, ES, SF
CICADA UNIT #15H - OWB - AWP	25,515.5	9,768.6				Out of Range @TD
CICADA UNIT #16H - OWB - AWP	25,515.5	9,909.0	690.4	536.3	4.481	CC, ES, SF
CICADA UNIT #17H - OWB - AWP	25,515.5	9,390.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	25,515.5	23,328.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	25,515.5	23,256.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	25,515.5	23,224.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	25,515.5	23,648.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	25,515.5	24,405.9	818.0	568.9	3.284	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	25,515.5	24,320.8	958.6	712.6	3.896	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	25,515.5	24,298.5	1,280.0	1,036.6	5.260	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	25,515.5	24,323.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	25,515.5	24,345.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	25,515.5	24,278.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	25,515.5	24,197.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	25,515.5	24,170.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	25,515.5	24,202.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	25,515.5	25,408.3	880.3	638.8	3.645	
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	25,515.5	25,430.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	25,515.5	25,359.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	25,515.5	25,284.5				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	25,515.5	9,791.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	25,515.5	7,086.0				Out of Range @TD

Offset Design: FLAMING SNAIL FED COM PROJECT - CICADA UNIT #14H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 277-MWD													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
24,890.0	9,811.8	9,724.0	9,711.8	116.6	37.8	-77.38	-15,427.3	1,593.8	1,279.1	1,141.9	137.28	9.318		
24,900.0	9,811.8	9,724.0	9,711.8	116.7	37.8	-77.38	-15,427.3	1,593.8	1,274.2	1,136.4	137.73	9.251		
24,985.0	9,811.8	9,724.0	9,711.8	117.3	37.8	-77.38	-15,427.3	1,593.8	1,234.3	1,092.8	141.52	8.722		
25,000.0	9,811.8	9,724.0	9,711.8	117.5	37.8	-77.38	-15,427.3	1,593.8	1,227.8	1,085.6	142.18	8.636		
25,080.0	9,811.8	9,724.0	9,711.8	118.1	37.8	-77.38	-15,427.3	1,593.8	1,195.4	1,049.8	145.61	8.210		
25,100.0	9,811.8	9,724.0	9,711.8	118.2	37.8	-77.38	-15,427.3	1,593.8	1,188.0	1,041.6	146.43	8.113		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - CICADA UNIT #14H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 277-MWD													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
25,175.0	9,811.9	9,746.3	9,733.1	118.8	37.9	-78.48	-15,433.7	1,595.7	1,162.5	1,013.2	149.33	7.785		
25,200.0	9,811.9	9,749.7	9,736.4	119.0	37.9	-78.65	-15,434.8	1,596.0	1,155.0	1,004.7	150.26	7.686		
25,270.0	9,811.9	9,772.0	9,757.3	119.5	38.0	-79.74	-15,442.1	1,598.1	1,136.5	983.8	152.68	7.444		
25,300.0	9,811.9	9,772.0	9,757.3	119.7	38.0	-79.74	-15,442.1	1,598.1	1,129.6	975.9	153.66	7.351		
25,365.0	9,811.9	9,772.0	9,757.3	120.2	38.0	-79.74	-15,442.1	1,598.1	1,117.3	961.7	155.59	7.181		
25,385.3	9,811.9	9,781.3	9,765.9	120.4	38.0	-80.19	-15,445.4	1,599.1	1,114.1	958.0	156.12	7.136		
25,400.0	9,812.0	9,784.6	9,768.9	120.5	38.0	-80.35	-15,446.6	1,599.4	1,112.1	955.6	156.49	7.106		
25,460.0	9,812.0	9,799.2	9,782.4	120.9	38.1	-81.05	-15,452.2	1,600.9	1,105.5	947.6	157.84	7.004		
25,500.0	9,812.0	9,810.2	9,792.3	121.2	38.1	-81.57	-15,456.6	1,602.1	1,102.7	944.1	158.60	6.953		
25,515.5	9,812.0	9,818.0	9,799.4	121.3	38.1	-81.94	-15,460.0	1,603.0	1,101.9	943.1	158.86	6.936 CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - CICADA UNIT #16H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program:		185-MWD		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Vertical	Measured	Vertical	Reference	Major	Highside			Distance				Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
24,400.0	9,811.6	9,531.0	9,479.2	112.9	38.2	-54.10	-15,314.2	1,171.0	1,303.5	1,195.3	108.18	12.049			
24,415.0	9,811.6	9,531.0	9,479.2	113.0	38.2	-54.10	-15,314.2	1,171.0	1,291.8	1,183.0	108.77	11.877			
24,500.0	9,811.6	9,531.0	9,479.2	113.7	38.2	-54.10	-15,314.2	1,171.0	1,226.8	1,114.6	112.23	10.931			
24,510.0	9,811.6	9,544.5	9,491.4	113.8	38.2	-54.82	-15,320.0	1,171.4	1,219.1	1,106.9	112.23	10.863			
24,600.0	9,811.6	9,562.6	9,507.6	114.4	38.3	-55.80	-15,328.0	1,171.8	1,152.7	1,037.1	115.63	9.969			
24,605.0	9,811.6	9,563.7	9,508.6	114.5	38.3	-55.86	-15,328.5	1,171.8	1,149.1	1,033.3	115.83	9.921			
24,700.0	9,811.7	9,579.0	9,522.1	115.2	38.3	-56.70	-15,335.6	1,172.2	1,082.1	962.2	119.87	9.027			
24,795.0	9,811.7	9,603.8	9,543.8	115.9	38.4	-58.07	-15,347.6	1,173.0	1,018.6	894.7	123.92	8.220			
24,800.0	9,811.7	9,604.9	9,544.8	115.9	38.4	-58.13	-15,348.2	1,173.1	1,015.4	891.3	124.15	8.179			
24,890.0	9,811.8	9,626.0	9,562.8	116.6	38.5	-59.31	-15,359.0	1,173.9	959.4	831.0	128.34	7.475			
24,900.0	9,811.8	9,635.1	9,570.6	116.7	38.5	-59.82	-15,363.8	1,174.2	953.4	824.8	128.60	7.413			
24,985.0	9,811.8	9,696.0	9,622.4	117.3	38.6	-63.34	-15,395.8	1,175.4	903.3	771.9	131.45	6.872			
25,000.0	9,811.8	9,703.5	9,628.7	117.5	38.7	-63.78	-15,399.8	1,175.4	894.8	762.7	132.08	6.775			
25,080.0	9,811.8	9,736.9	9,656.4	118.1	38.7	-65.73	-15,418.4	1,174.8	851.2	715.4	135.73	6.271			
25,100.0	9,811.8	9,744.5	9,662.6	118.2	38.8	-66.17	-15,422.9	1,174.6	840.9	704.2	136.68	6.152			
25,175.0	9,811.9	9,768.0	9,681.1	118.8	38.8	-67.50	-15,437.3	1,173.5	804.3	663.9	140.39	5.729			
25,200.0	9,811.9	9,783.1	9,692.5	119.0	38.9	-68.32	-15,447.1	1,172.6	792.9	651.5	141.38	5.609			
25,270.0	9,811.9	9,815.0	9,715.3	119.5	39.0	-69.99	-15,469.3	1,170.2	763.5	619.1	144.39	5.288			
25,300.0	9,811.9	9,815.0	9,715.3	119.7	39.0	-69.99	-15,469.3	1,170.2	752.0	605.8	146.12	5.146			
25,365.0	9,811.9	9,847.0	9,736.2	120.2	39.1	-71.55	-15,493.4	1,167.5	729.3	580.6	148.65	4.906			
25,385.3	9,811.9	9,862.0	9,745.2	120.4	39.2	-72.23	-15,505.3	1,166.3	722.9	573.7	149.24	4.844			
25,400.0	9,812.0	9,862.0	9,745.2	120.5	39.2	-72.23	-15,505.3	1,166.3	718.5	568.5	150.01	4.790			
25,460.0	9,812.0	9,883.8	9,757.6	120.9	39.2	-73.19	-15,523.2	1,164.8	702.4	550.1	152.30	4.612			
25,500.0	9,812.0	9,909.0	9,770.7	121.2	39.3	-74.22	-15,544.7	1,163.6	693.6	540.2	153.42	4.521			
25,515.5	9,812.0	9,909.0	9,770.7	121.3	39.3	-74.22	-15,544.7	1,163.6	690.4	536.3	154.07	4.481	CC, ES, SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	3.6	3.6	3.0	3.0	179.08	-300.0	4.8	300.0					
95.0	95.0	98.6	98.6	3.0	3.0	179.08	-300.0	4.8	300.0	294.0	6.02	49.856		
100.0	100.0	103.6	103.6	3.0	3.0	179.08	-300.0	4.8	300.0	294.0	6.02	49.831		
190.0	190.0	193.6	193.6	3.1	3.0	179.08	-300.0	4.8	300.0	293.9	6.13	48.914		
200.0	200.0	203.6	203.6	3.1	3.0	179.08	-300.0	4.8	300.0	293.9	6.15	48.769		
285.0	285.0	288.6	288.6	3.3	3.0	179.08	-300.0	4.8	300.0	293.8	6.27	47.890		
300.0	300.0	303.6	303.6	3.3	3.0	179.08	-300.0	4.8	300.0	293.8	6.29	47.715		
380.0	380.0	383.6	383.6	3.4	3.0	179.08	-300.0	4.8	300.0	293.6	6.40	46.891		
400.0	400.0	403.6	403.6	3.4	3.0	179.08	-300.0	4.8	300.0	293.6	6.43	46.671		
475.0	475.0	478.6	478.6	3.5	3.0	179.08	-300.0	4.8	300.0	293.5	6.54	45.905		
500.0	500.0	503.6	503.6	3.5	3.1	179.08	-300.0	4.8	300.0	293.5	6.57	45.639		
570.0	570.0	573.6	573.6	3.6	3.1	179.08	-300.0	4.8	300.0	293.4	6.68	44.931		
600.0	600.0	603.6	603.6	3.6	3.1	179.08	-300.0	4.8	300.0	293.3	6.72	44.619		
665.0	665.0	668.6	668.6	3.7	3.1	179.08	-300.0	4.8	300.0	293.2	6.82	43.971		
700.0	700.0	703.6	703.6	3.8	3.1	179.08	-300.0	4.8	300.0	293.2	6.88	43.615		
760.0	760.0	763.6	763.6	3.8	3.1	179.08	-300.0	4.8	300.0	293.1	6.97	43.025		
800.0	800.0	803.6	803.6	3.9	3.2	179.08	-300.0	4.8	300.0	293.0	7.04	42.627		
855.0	855.0	858.6	858.6	4.0	3.2	179.08	-300.0	4.8	300.0	292.9	7.13	42.096		
900.0	900.0	903.6	903.6	4.0	3.2	179.08	-300.0	4.8	300.0	292.8	7.20	41.657		
950.0	950.0	953.6	953.6	4.1	3.2	179.08	-300.0	4.8	300.0	292.8	7.29	41.183		
1,000.0	1,000.0	1,003.6	1,003.6	4.1	3.2	179.08	-300.0	4.8	300.0	292.7	7.37	40.707		
1,045.0	1,045.0	1,048.6	1,048.6	4.2	3.3	179.08	-300.0	4.8	300.0	292.6	7.45	40.289		
1,100.0	1,100.0	1,103.6	1,103.6	4.2	3.3	179.08	-300.0	4.8	300.0	292.5	7.54	39.777		
1,140.0	1,140.0	1,143.6	1,143.6	4.3	3.3	179.08	-300.0	4.8	300.0	292.4	7.61	39.414		
1,200.0	1,200.0	1,203.6	1,203.6	4.4	3.4	179.08	-300.0	4.8	300.0	292.3	7.72	38.870		
1,235.0	1,235.0	1,238.6	1,238.6	4.4	3.4	179.08	-300.0	4.8	300.0	292.3	7.78	38.559		
1,300.0	1,300.0	1,303.6	1,303.6	4.5	3.4	179.08	-300.0	4.8	300.0	292.1	7.90	37.984		
1,330.0	1,330.0	1,333.6	1,333.6	4.5	3.4	179.08	-300.0	4.8	300.0	292.1	7.95	37.724		
1,400.0	1,400.0	1,403.6	1,403.6	4.6	3.5	179.08	-300.0	4.8	300.0	292.0	8.08	37.122		
1,425.0	1,425.0	1,428.6	1,428.6	4.6	3.5	179.08	-300.0	4.8	300.0	291.9	8.13	36.911		
1,500.0	1,500.0	1,503.6	1,503.6	4.7	3.5	179.08	-300.0	4.8	300.0	291.8	8.27	36.282		
1,520.0	1,520.0	1,523.6	1,523.6	4.7	3.6	128.30	-300.0	4.8	300.1	291.8	8.31	36.106		
1,600.0	1,600.0	1,603.6	1,603.6	4.9	3.6	128.53	-300.0	4.8	301.1	292.6	8.48	35.513		
1,615.0	1,615.0	1,618.6	1,618.6	4.9	3.6	128.61	-300.0	4.8	301.5	293.0	8.52	35.386		
1,700.0	1,699.8	1,703.4	1,703.4	5.1	3.7	129.25	-300.0	4.8	304.4	295.7	8.75	34.776		
1,710.0	1,709.8	1,713.4	1,713.4	5.1	3.7	129.35	-300.0	4.8	304.9	296.1	8.78	34.716		
1,800.0	1,799.5	1,803.1	1,803.1	5.4	3.8	130.41	-300.0	4.8	310.0	301.0	9.04	34.286		
1,805.0	1,804.4	1,808.0	1,808.0	5.4	3.8	130.48	-300.0	4.8	310.4	301.3	9.06	34.267		
1,900.0	1,898.7	1,902.3	1,902.3	5.7	3.9	131.96	-300.0	4.8	318.1	308.7	9.35	34.019		
1,995.0	1,992.5	1,996.1	1,996.1	6.0	3.9	133.72	-300.0	4.8	328.2	318.5	9.66	33.957		
2,000.0	1,997.5	2,001.2	2,001.2	6.0	3.9	133.82	-300.0	4.8	328.8	319.1	9.68	33.954		
2,090.0	2,085.8	2,099.4	2,099.4	6.3	4.1	135.78	-298.7	5.9	339.6	329.4	10.14	33.499		
2,100.0	2,095.6	2,110.4	2,110.4	6.3	4.2	135.99	-298.3	6.1	340.7	330.6	10.19	33.428		
2,185.0	2,178.5	2,203.8	2,203.6	6.6	4.4	137.79	-294.4	9.4	350.7	340.0	10.71	32.753		
2,200.0	2,193.1	2,220.4	2,220.2	6.7	4.5	138.11	-293.4	10.1	352.5	341.7	10.80	32.632		
2,280.0	2,270.7	2,309.0	2,308.4	6.9	4.7	139.75	-287.1	15.3	360.8	349.5	11.28	31.977		
2,300.0	2,290.1	2,331.3	2,330.6	7.0	4.8	140.12	-285.1	16.9	362.5	351.1	11.41	31.787		
2,375.0	2,362.9	2,415.3	2,413.8	7.2	5.1	141.36	-276.7	23.7	368.1	356.2	11.88	30.977		
2,400.0	2,387.1	2,443.4	2,441.6	7.3	5.2	141.73	-273.4	26.4	369.5	357.5	12.05	30.678		
2,470.0	2,455.0	2,522.3	2,519.4	7.5	5.5	142.65	-263.1	34.7	372.4	359.9	12.52	29.757		
2,500.0	2,484.1	2,556.2	2,552.7	7.6	5.6	142.99	-258.2	38.7	373.2	360.5	12.72	29.334		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,565.0	2,547.2	2,629.8	2,624.7	7.9	5.9	143.65	-246.5	48.3	373.7	360.6	13.18	28.357	
2,600.0	2,581.2	2,669.4	2,663.3	8.0	6.0	143.95	-239.6	53.9	373.4	360.0	13.43	27.805	
2,660.0	2,639.4	2,733.0	2,725.0	8.2	6.2	144.38	-227.8	63.5	372.1	358.2	13.85	26.872	
2,700.0	2,678.2	2,772.9	2,763.8	8.4	6.4	144.64	-220.3	69.6	371.1	357.0	14.12	26.288	
2,755.0	2,731.6	2,827.9	2,817.1	8.6	6.6	145.01	-209.9	78.0	369.7	355.2	14.50	25.503	
2,800.0	2,775.2	2,872.8	2,860.7	8.8	6.7	145.31	-201.5	84.8	368.7	353.8	14.82	24.881	
2,850.0	2,823.7	2,922.7	2,909.2	9.0	6.9	145.65	-192.1	92.4	367.5	352.3	15.18	24.207	
2,900.0	2,872.3	2,972.7	2,957.6	9.2	7.1	145.98	-182.7	100.1	366.3	350.7	15.55	23.555	
2,945.0	2,915.9	3,017.6	3,001.2	9.3	7.3	146.29	-174.3	106.9	365.2	349.4	15.89	22.986	
3,000.0	2,969.3	3,072.6	3,054.5	9.6	7.5	146.67	-164.0	115.3	364.0	347.7	16.31	22.313	
3,040.0	3,008.1	3,112.5	3,093.3	9.7	7.6	146.94	-156.5	121.4	363.1	346.4	16.62	21.838	
3,100.0	3,066.3	3,172.4	3,151.4	10.0	7.8	147.36	-145.2	130.5	361.7	344.6	17.10	21.152	
3,135.0	3,100.3	3,207.4	3,185.4	10.1	8.0	147.60	-138.7	135.9	360.9	343.5	17.38	20.764	
3,200.0	3,163.3	3,272.3	3,248.4	10.4	8.2	148.06	-126.5	145.8	359.5	341.6	17.91	20.069	
3,230.0	3,192.5	3,302.3	3,277.4	10.5	8.4	148.27	-120.9	150.3	358.8	340.7	18.16	19.759	
3,300.0	3,260.4	3,372.2	3,345.3	10.8	8.7	148.76	-107.7	161.0	357.3	338.6	18.75	19.061	
3,325.0	3,284.6	3,397.2	3,369.5	10.9	8.8	148.94	-103.0	164.8	356.8	337.8	18.96	18.820	
3,400.0	3,357.4	3,472.1	3,442.2	11.2	9.1	149.48	-89.0	176.3	355.2	335.6	19.60	18.123	
3,420.0	3,376.8	3,492.0	3,461.6	11.3	9.2	149.63	-85.2	179.3	354.8	335.0	19.77	17.943	
3,500.0	3,454.4	3,571.9	3,539.1	11.7	9.5	150.21	-70.2	191.5	353.2	332.7	20.47	17.251	
3,515.0	3,469.0	3,586.9	3,553.6	11.7	9.6	150.32	-67.4	193.8	352.9	332.3	20.61	17.125	
3,600.0	3,551.5	3,671.8	3,636.0	12.1	9.9	150.94	-51.5	206.7	351.2	329.8	21.36	16.439	
3,610.0	3,561.2	3,681.8	3,645.7	12.2	10.0	151.01	-49.6	208.3	351.0	329.5	21.45	16.361	
3,700.0	3,648.5	3,771.7	3,732.9	12.6	10.4	151.68	-32.7	222.0	349.3	327.0	22.27	15.684	
3,705.0	3,653.3	3,776.7	3,737.8	12.6	10.4	151.72	-31.8	222.7	349.2	326.8	22.31	15.648	
3,800.0	3,745.5	3,871.6	3,829.8	13.0	10.8	152.43	-13.9	237.2	347.4	324.2	23.19	14.982	
3,895.0	3,837.7	3,966.5	3,921.9	13.4	11.2	153.15	3.9	251.7	345.7	321.6	24.07	14.359	
3,900.0	3,842.6	3,971.5	3,926.7	13.5	11.3	153.19	4.8	252.4	345.6	321.5	24.12	14.327	
3,990.0	3,929.9	4,061.3	4,014.0	13.9	11.7	153.88	21.7	266.2	344.0	319.0	24.97	13.777	
4,000.0	3,939.6	4,071.3	4,023.6	13.9	11.7	153.95	23.6	267.7	343.8	318.8	25.06	13.718	
4,085.0	4,022.1	4,156.2	4,106.0	14.3	12.1	154.61	39.5	280.6	342.4	316.5	25.88	13.232	
4,100.0	4,036.6	4,171.2	4,120.6	14.4	12.2	154.73	42.3	282.9	342.1	316.1	26.02	13.149	
4,180.0	4,114.2	4,251.1	4,198.1	14.7	12.5	155.35	57.3	295.1	340.8	314.0	26.79	12.721	
4,200.0	4,133.6	4,271.1	4,217.5	14.8	12.6	155.51	61.1	298.2	340.5	313.5	26.99	12.618	
4,275.0	4,206.4	4,346.0	4,290.1	15.2	13.0	156.10	75.2	309.6	339.3	311.6	27.72	12.243	
4,300.0	4,230.7	4,371.0	4,314.4	15.3	13.1	156.30	79.8	313.4	338.9	311.0	27.96	12.122	
4,370.0	4,298.6	4,440.9	4,382.2	15.6	13.4	156.85	93.0	324.1	337.9	309.2	28.65	11.794	
4,400.0	4,327.7	4,470.9	4,411.3	15.7	13.5	157.09	98.6	328.6	337.4	308.5	28.94	11.658	
4,465.0	4,390.8	4,535.8	4,474.3	16.0	13.8	157.61	110.8	338.5	336.5	306.9	29.59	11.373	
4,500.0	4,424.7	4,570.7	4,508.2	16.2	14.0	157.89	117.4	343.9	336.0	306.1	29.94	11.225	
4,537.3	4,460.9	4,608.0	4,544.3	16.4	14.2	158.19	124.3	349.6	335.5	305.2	30.30	11.074	
4,560.0	4,483.0	4,630.7	4,566.3	16.5	14.3	158.37	128.6	353.0	335.1	304.6	30.52	10.981	
4,600.0	4,521.9	4,670.6	4,605.1	16.6	14.5	158.65	136.1	359.1	334.0	303.1	30.91	10.807	
4,655.0	4,575.7	4,725.5	4,658.4	16.9	14.7	158.97	146.4	367.5	331.7	300.2	31.45	10.545	
4,700.0	4,619.8	4,770.4	4,702.0	17.1	14.9	159.19	154.9	374.3	329.0	297.1	31.89	10.316	
4,750.0	4,669.0	4,820.3	4,750.3	17.4	15.1	159.38	164.2	382.0	325.3	293.0	32.37	10.049	
4,800.0	4,718.4	4,870.1	4,798.6	17.6	15.4	159.51	173.6	389.6	320.8	288.0	32.85	9.767	
4,845.0	4,762.9	4,914.8	4,842.0	17.8	15.6	159.58	182.0	396.4	316.1	282.8	33.26	9.503	
4,900.0	4,817.5	4,969.4	4,895.0	18.0	15.8	159.61	192.2	404.7	309.4	275.6	33.76	9.164	
4,940.0	4,857.2	5,009.0	4,933.5	18.2	16.0	159.58	199.7	410.8	303.9	269.8	34.11	8.910	
5,000.0	4,916.9	5,068.3	4,991.0	18.4	16.3	159.46	210.8	419.8	294.7	260.0	34.62	8.511	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
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	
5,035.0	4,951.8	5,102.8	5,024.5	18.6	16.5	159.34	217.3	425.1	288.8	253.9	34.90	8.274		
5,100.0	5,016.7	5,166.7	5,086.4	18.8	16.8	159.02	229.3	434.8	276.7	241.3	35.41	7.815		
5,130.0	5,046.7	5,196.0	5,114.9	18.9	16.9	158.82	234.8	439.3	270.7	235.1	35.63	7.599		
5,200.0	5,116.7	5,264.4	5,181.2	19.1	17.2	158.22	247.6	449.7	255.6	219.5	36.11	7.080		
5,225.0	5,141.7	5,288.7	5,204.8	19.2	17.4	157.95	252.2	453.4	249.9	213.7	36.23	6.897		
5,237.3	5,154.0	5,300.6	5,216.4	19.2	17.4	-151.40	254.4	455.2	247.0	210.7	36.29	6.806		
5,300.0	5,216.7	5,361.4	5,275.4	19.2	17.7	-152.08	265.8	464.5	232.1	195.5	36.52	6.354		
5,320.0	5,236.7	5,380.9	5,294.2	19.2	17.8	-152.32	269.5	467.5	227.3	190.7	36.60	6.211		
5,400.0	5,316.7	5,458.5	5,369.6	19.3	18.2	-153.37	284.1	479.3	208.3	171.5	36.88	5.649		
5,415.0	5,331.7	5,473.0	5,383.7	19.3	18.2	-153.59	286.8	481.5	204.8	167.9	36.93	5.546		
5,500.0	5,416.7	5,555.5	5,463.7	19.3	18.6	-154.99	302.3	494.1	184.8	147.6	37.18	4.969		
5,510.0	5,426.7	5,565.2	5,473.1	19.3	18.7	-155.17	304.1	495.6	182.4	145.2	37.20	4.903		
5,600.0	5,516.7	5,652.5	5,557.9	19.3	19.1	-157.08	320.5	508.9	161.3	124.0	37.38	4.316		
5,605.0	5,521.7	5,657.4	5,562.6	19.3	19.1	-157.20	321.4	509.7	160.2	122.8	37.39	4.284		
5,700.0	5,616.7	5,749.6	5,652.0	19.4	19.6	-159.86	338.7	523.7	138.2	100.8	37.43	3.692		
5,795.0	5,711.7	5,841.7	5,741.4	19.4	20.0	-163.52	356.0	537.8	116.6	79.4	37.22	3.134		
5,800.0	5,716.7	5,846.6	5,746.1	19.4	20.0	-163.75	356.9	538.5	115.5	78.3	37.20	3.105		
5,890.0	5,806.7	5,933.9	5,830.9	19.5	20.4	-168.78	373.3	551.9	95.7	59.2	36.53	2.620		
5,900.0	5,816.7	5,943.6	5,840.3	19.5	20.5	-169.47	375.2	553.3	93.6	57.1	36.42	2.569		
5,985.0	5,901.7	6,026.1	5,920.3	19.5	20.9	-176.83	390.7	565.9	76.0	41.1	34.90	2.177		
6,000.0	5,916.7	6,040.6	5,934.4	19.5	20.9	-178.48	393.4	568.2	73.0	38.6	34.49	2.118		
6,080.0	5,996.7	6,118.3	6,009.8	19.6	21.3	170.12	408.0	580.0	58.7	27.4	31.33	1.873 Advise and Monitor		
6,100.0	6,016.7	6,137.7	6,028.6	19.6	21.4	166.42	411.6	583.0	55.6	25.4	30.22	1.839 Advise and Monitor		
6,175.0	6,091.7	6,210.1	6,099.0	19.6	21.7	149.69	424.7	593.6	46.8	21.3	25.55	1.833 Advise and Monitor		
6,200.0	6,116.7	6,234.4	6,122.7	19.6	21.9	143.41	428.8	596.9	45.2	20.8	24.33	1.856 Advise and Monitor		
6,256.0	6,172.7	6,289.1	6,176.3	19.7	22.1	129.10	437.5	604.0	43.7	20.1	23.64	1.848 Advise and Monitor, CC		
6,270.0	6,186.7	6,302.8	6,189.8	19.7	22.2	125.64	439.5	605.6	43.8	19.8	23.97	1.826 Advise and Monitor		
6,300.0	6,216.7	6,332.4	6,218.8	19.7	22.3	118.61	443.7	609.1	44.5	19.3	25.20	1.764 Advise and Monitor		
6,365.0	6,281.7	6,396.8	6,282.3	19.7	22.6	105.67	452.2	615.9	47.7	18.8	28.92	1.650 Advise and Monitor, ES		
6,400.0	6,316.7	6,431.6	6,316.7	19.7	22.8	100.11	456.3	619.2	50.1	19.2	30.84	1.624 Advise and Monitor, SF		
6,460.0	6,376.7	6,491.7	6,376.2	19.8	23.1	92.61	462.5	624.3	54.5	21.0	33.53	1.625 Advise and Monitor		
6,500.0	6,416.7	6,531.9	6,416.2	19.8	23.2	88.81	466.2	627.3	57.4	22.5	34.90	1.646 Advise and Monitor		
6,555.0	6,471.7	6,587.4	6,471.4	19.8	23.5	84.79	470.6	630.9	61.2	24.9	36.32	1.684 Advise and Monitor		
6,600.0	6,516.7	6,632.9	6,516.8	19.8	23.6	82.35	473.5	633.2	63.9	26.7	37.18	1.717 Advise and Monitor		
6,650.0	6,566.7	6,683.7	6,567.4	19.9	23.8	80.35	476.1	635.4	66.3	28.4	37.89	1.751 Advise and Monitor		
6,700.0	6,616.7	6,734.5	6,618.2	19.9	24.0	78.97	478.1	636.9	68.2	29.8	38.38	1.777 Advise and Monitor		
6,745.0	6,661.7	6,780.4	6,664.0	19.9	24.2	78.19	479.2	637.9	69.3	30.6	38.66	1.792 Advise and Monitor		
6,800.0	6,716.7	6,836.4	6,720.0	19.9	24.3	77.77	479.8	638.4	69.9	31.1	38.80	1.802 Advise and Monitor		
6,840.0	6,756.7	6,876.7	6,760.3	19.9	24.3	77.76	479.9	638.4	69.9	31.1	38.82	1.802 Advise and Monitor		
6,900.0	6,816.7	6,936.7	6,820.3	20.0	24.3	77.76	479.9	638.4	69.9	31.1	38.87	1.799 Advise and Monitor		
6,935.0	6,851.7	6,971.7	6,855.3	20.0	24.3	77.76	479.9	638.4	69.9	31.0	38.91	1.798 Advise and Monitor		
7,000.0	6,916.7	7,036.7	6,920.3	20.0	24.4	77.76	479.9	638.4	69.9	31.0	38.97	1.795 Advise and Monitor		
7,030.0	6,946.7	7,066.7	6,950.3	20.0	24.4	77.76	479.9	638.4	69.9	30.9	39.00	1.793 Advise and Monitor		
7,100.0	7,016.7	7,137.0	7,020.6	20.1	24.4	77.89	479.7	638.4	69.9	30.9	38.98	1.793 Advise and Monitor		
7,125.0	7,041.7	7,162.7	7,046.2	20.1	24.4	78.83	478.5	638.4	69.7	31.0	38.66	1.802 Advise and Monitor		
7,200.0	7,116.7	7,238.2	7,121.1	20.1	24.5	87.17	468.4	638.3	68.3	32.2	36.15	1.891 Advise and Monitor		
7,218.6	7,135.3	7,256.4	7,138.9	20.1	24.5	90.45	464.5	638.3	68.2	33.1	35.16	1.941 Advise and Monitor		
7,220.0	7,136.7	7,257.8	7,140.2	20.1	24.5	90.72	464.2	638.3	68.2	33.2	35.08	1.945 Advise and Monitor		
7,300.0	7,216.7	7,332.7	7,211.7	20.2	24.5	108.65	442.1	638.1	72.3	42.6	29.72	2.434		
7,315.0	7,231.7	7,346.0	7,224.1	20.2	24.5	112.28	437.2	638.1	74.3	45.6	28.75	2.585		
7,400.0	7,316.7	7,416.7	7,287.7	20.2	24.6	130.85	406.4	637.8	95.3	69.8	25.56	3.730		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)		
7,410.0	7,326.7	7,424.4	7,294.4	20.2	24.6	132.67	402.6	637.8	98.9	73.4	25.44	3.886	
7,500.0	7,416.7	7,488.9	7,348.2	20.3	24.6	145.41	367.2	637.5	139.0	113.5	25.42	5.467	
7,505.0	7,421.7	7,492.2	7,350.8	20.3	24.6	145.95	365.3	637.5	141.6	116.1	25.44	5.565	
7,600.0	7,516.7	7,550.0	7,395.3	20.3	24.7	153.85	328.3	637.2	197.1	171.2	25.83	7.630	
7,695.0	7,611.7	7,600.0	7,430.5	20.4	24.7	158.78	292.8	636.9	261.3	235.2	26.07	10.022	
7,700.0	7,616.7	7,600.0	7,430.5	20.4	24.7	158.78	292.8	636.9	264.8	238.8	26.01	10.181	
7,790.0	7,706.7	7,639.3	7,456.0	20.4	24.8	161.76	262.9	636.7	331.6	305.5	26.13	12.688	
7,800.0	7,716.7	7,650.0	7,462.6	20.4	24.8	162.46	254.5	636.6	339.4	313.1	26.29	12.911	
7,885.0	7,801.7	7,674.1	7,476.8	20.5	24.8	163.90	235.0	636.5	406.5	380.3	26.24	15.493	
7,900.0	7,816.7	7,679.1	7,479.6	20.5	24.8	164.17	230.9	636.4	418.7	392.4	26.26	15.946	
7,980.0	7,896.7	7,700.0	7,491.1	20.5	24.8	165.25	213.4	636.3	484.9	458.5	26.32	18.421	
8,000.0	7,916.7	7,700.0	7,491.1	20.5	24.8	165.25	213.4	636.3	501.9	475.6	26.29	19.087	
8,075.0	7,991.7	7,729.1	7,506.1	20.6	24.8	166.57	188.5	636.1	565.9	539.3	26.53	21.330	
8,100.0	8,016.7	7,735.2	7,509.0	20.6	24.8	166.82	183.1	636.0	587.5	561.0	26.58	22.107	
8,170.0	8,086.7	7,750.0	7,516.0	20.6	24.8	167.41	170.1	635.9	649.0	622.2	26.72	24.291	
8,200.0	8,116.7	7,750.0	7,516.0	20.6	24.8	167.41	170.1	635.9	675.6	648.9	26.74	25.265	
8,265.0	8,181.7	7,770.2	7,524.9	20.7	24.9	168.14	152.0	635.8	733.7	706.8	26.95	27.228	
8,300.0	8,216.7	7,776.6	7,527.7	20.7	24.9	168.36	146.2	635.8	765.3	738.3	27.04	28.308	
8,360.0	8,276.7	7,800.0	7,537.0	20.7	24.9	169.10	124.7	635.6	820.1	792.9	27.26	30.086	
8,400.0	8,316.7	7,800.0	7,537.0	20.7	24.9	169.10	124.7	635.6	856.5	829.2	27.33	31.339	
8,455.0	8,371.7	7,800.0	7,537.0	20.8	24.9	169.10	124.7	635.6	907.1	879.7	27.45	33.047	
8,500.0	8,416.7	7,800.0	7,537.0	20.8	24.9	169.10	124.7	635.6	948.8	921.3	27.56	34.434	
8,550.0	8,466.7	7,800.0	7,537.0	20.8	24.9	169.10	124.7	635.6	995.6	967.9	27.68	35.960	
8,600.0	8,516.7	7,821.2	7,544.7	20.8	24.9	169.71	105.0	635.4	1,042.0	1,014.1	27.88	37.373	
8,645.0	8,561.7	7,826.5	7,546.5	20.9	24.9	169.85	99.9	635.4	1,084.2	1,056.2	28.02	38.697	
8,700.0	8,616.7	7,832.8	7,548.6	20.9	24.9	170.02	94.1	635.3	1,136.0	1,107.8	28.19	40.304	
8,740.0	8,656.7	7,850.0	7,554.0	20.9	24.9	170.45	77.7	635.2	1,174.0	1,145.6	28.34	41.419	
8,800.0	8,716.7	7,850.0	7,554.0	21.0	24.9	170.45	77.7	635.2	1,230.7	1,202.2	28.51	43.162	
8,835.0	8,751.7	7,850.0	7,554.0	21.0	24.9	170.45	77.7	635.2	1,263.9	1,235.3	28.62	44.168	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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	4.3	4.3	3.0	3.0	-169.63	-301.1	-55.1	306.1					
95.0	95.0	99.3	99.3	3.0	3.0	-169.63	-301.1	-55.1	306.1	300.1	6.02	50.863		
100.0	100.0	104.3	104.3	3.0	3.0	-169.63	-301.1	-55.1	306.1	300.1	6.02	50.838		
190.0	190.0	194.3	194.3	3.1	3.0	-169.63	-301.1	-55.1	306.1	300.0	6.13	49.904		
200.0	200.0	204.3	204.3	3.1	3.0	-169.63	-301.1	-55.1	306.1	299.9	6.15	49.756		
285.0	285.0	289.3	289.3	3.3	3.0	-169.63	-301.1	-55.1	306.1	299.8	6.26	48.861		
300.0	300.0	304.3	304.3	3.3	3.0	-169.63	-301.1	-55.1	306.1	299.8	6.29	48.684		
380.0	380.0	384.3	384.3	3.4	3.0	-169.63	-301.1	-55.1	306.1	299.7	6.40	47.847		
400.0	400.0	404.3	404.3	3.4	3.0	-169.63	-301.1	-55.1	306.1	299.7	6.43	47.624		
475.0	475.0	479.3	479.3	3.5	3.0	-169.63	-301.1	-55.1	306.1	299.6	6.53	46.846		
500.0	500.0	504.3	504.3	3.5	3.1	-169.63	-301.1	-55.1	306.1	299.5	6.57	46.576		
570.0	570.0	574.3	574.3	3.6	3.1	-169.63	-301.1	-55.1	306.1	299.4	6.67	45.859		
600.0	600.0	604.3	604.3	3.6	3.1	-169.63	-301.1	-55.1	306.1	299.4	6.72	45.543		
665.0	665.0	669.3	669.3	3.7	3.1	-169.63	-301.1	-55.1	306.1	299.3	6.82	44.886		
700.0	700.0	704.3	704.3	3.8	3.1	-169.63	-301.1	-55.1	306.1	299.2	6.87	44.525		
760.0	760.0	764.3	764.3	3.8	3.1	-169.63	-301.1	-55.1	306.1	299.1	6.97	43.928		
800.0	800.0	804.3	804.3	3.9	3.2	-169.63	-301.1	-55.1	306.1	299.1	7.03	43.525		
855.0	855.0	859.3	859.3	4.0	3.2	-169.63	-301.1	-55.1	306.1	299.0	7.12	42.987		
900.0	900.0	904.3	904.3	4.0	3.2	-169.63	-301.1	-55.1	306.1	298.9	7.19	42.544		
950.0	950.0	954.3	954.3	4.1	3.2	-169.63	-301.1	-55.1	306.1	298.8	7.28	42.064		
1,000.0	1,000.0	1,004.3	1,004.3	4.1	3.2	-169.63	-301.1	-55.1	306.1	298.7	7.36	41.582		
1,045.0	1,045.0	1,049.3	1,049.3	4.2	3.3	-169.63	-301.1	-55.1	306.1	298.7	7.44	41.159		
1,100.0	1,100.0	1,104.3	1,104.3	4.2	3.3	-169.63	-301.1	-55.1	306.1	298.6	7.53	40.642		
1,140.0	1,140.0	1,144.3	1,144.3	4.3	3.3	-169.63	-301.1	-55.1	306.1	298.5	7.60	40.274		
1,200.0	1,200.0	1,204.3	1,204.3	4.4	3.4	-169.63	-301.1	-55.1	306.1	298.4	7.71	39.723		
1,235.0	1,235.0	1,239.3	1,239.3	4.4	3.4	-169.63	-301.1	-55.1	306.1	298.3	7.77	39.409		
1,300.0	1,300.0	1,304.3	1,304.3	4.5	3.4	-169.63	-301.1	-55.1	306.1	298.2	7.88	38.827		
1,330.0	1,330.0	1,334.3	1,334.3	4.5	3.4	-169.63	-301.1	-55.1	306.1	298.2	7.94	38.564		
1,400.0	1,400.0	1,404.3	1,404.3	4.6	3.5	-169.63	-301.1	-55.1	306.1	298.0	8.06	37.954		
1,425.0	1,425.0	1,429.3	1,429.3	4.6	3.5	-169.63	-301.1	-55.1	306.1	298.0	8.11	37.741		
1,500.0	1,500.0	1,504.3	1,504.3	4.7	3.5	-169.63	-301.1	-55.1	306.1	297.9	8.25	37.105 CC, ES		
1,520.0	1,520.0	1,524.3	1,524.3	4.7	3.6	139.58	-301.1	-55.1	306.2	297.9	8.29	36.922		
1,600.0	1,600.0	1,604.3	1,604.3	4.9	3.6	139.77	-301.1	-55.1	307.4	299.0	8.48	36.267		
1,615.0	1,615.0	1,619.3	1,619.3	4.9	3.6	139.83	-301.1	-55.1	307.9	299.3	8.52	36.135		
1,700.0	1,699.8	1,704.1	1,704.1	5.1	3.7	140.34	-301.1	-55.1	311.4	302.7	8.77	35.517		
1,710.0	1,709.8	1,714.1	1,714.1	5.1	3.7	140.42	-301.1	-55.1	312.0	303.2	8.80	35.458		
1,800.0	1,799.5	1,803.8	1,803.8	5.4	3.8	141.26	-301.1	-55.1	318.2	309.1	9.08	35.064		
1,805.0	1,804.4	1,808.7	1,808.7	5.4	3.8	141.31	-301.1	-55.1	318.6	309.5	9.09	35.048		
1,900.0	1,898.7	1,903.0	1,903.0	5.7	3.9	142.47	-301.1	-55.1	327.8	318.4	9.40	34.874		
1,995.0	1,992.5	1,996.8	1,996.8	6.0	3.9	143.84	-301.1	-55.1	339.7	330.0	9.73	34.913		
2,000.0	1,997.5	2,001.9	2,001.9	6.0	3.9	143.92	-301.1	-55.1	340.4	330.7	9.75	34.913		
2,090.0	2,085.8	2,097.4	2,097.4	6.3	4.1	145.72	-299.8	-56.1	353.4	343.3	10.17	34.742		
2,100.0	2,095.6	2,107.9	2,107.9	6.3	4.2	145.95	-299.5	-56.3	355.0	344.7	10.22	34.714		
2,185.0	2,178.5	2,197.3	2,197.2	6.6	4.4	148.15	-295.6	-59.1	368.3	357.6	10.70	34.437		
2,200.0	2,193.1	2,213.0	2,212.8	6.7	4.5	148.58	-294.7	-59.8	370.8	360.0	10.78	34.400		
2,280.0	2,270.7	2,296.4	2,295.8	6.9	4.7	151.09	-288.7	-64.1	383.8	372.6	11.19	34.299		
2,300.0	2,290.1	2,317.1	2,316.5	7.0	4.8	151.73	-286.9	-65.4	387.0	375.7	11.29	34.267		
2,375.0	2,362.9	2,394.8	2,393.5	7.2	5.0	154.22	-279.2	-71.1	398.7	387.0	11.69	34.110		
2,400.0	2,387.1	2,420.6	2,419.1	7.3	5.1	155.06	-276.2	-73.3	402.5	390.7	11.82	34.056		
2,470.0	2,455.0	2,492.4	2,490.0	7.5	5.4	157.49	-267.0	-80.0	413.1	400.9	12.19	33.883		
2,500.0	2,484.1	2,523.0	2,520.1	7.6	5.5	158.56	-262.7	-83.2	417.7	405.3	12.35	33.813		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,565.0	2,547.2	2,588.9	2,584.8	7.9	5.7	160.90	-252.4	-90.7	427.5	414.8	12.70	33.659		
2,600.0	2,581.2	2,624.2	2,619.3	8.0	5.9	162.19	-246.4	-95.0	432.9	420.0	12.89	33.588		
2,660.0	2,639.4	2,684.2	2,677.7	8.2	6.1	164.42	-235.4	-103.1	442.3	429.0	13.21	33.477	SF	
2,700.0	2,678.2	2,723.9	2,716.2	8.4	6.2	165.93	-227.6	-108.8	448.6	435.2	13.39	33.496		
2,755.0	2,731.6	2,775.8	2,766.5	8.6	6.4	167.89	-217.1	-116.4	457.8	444.1	13.65	33.526		
2,800.0	2,775.2	2,818.2	2,807.6	8.8	6.5	169.43	-208.6	-122.7	465.7	451.8	13.88	33.560		
2,850.0	2,823.7	2,865.4	2,853.2	9.0	6.7	171.09	-199.0	-129.7	474.8	460.7	14.14	33.587		
2,900.0	2,872.3	2,912.5	2,898.8	9.2	6.8	172.69	-189.5	-136.6	484.4	470.0	14.40	33.643		
2,945.0	2,915.9	2,954.9	2,939.9	9.3	7.0	174.08	-180.9	-142.9	493.3	478.7	14.64	33.707		
3,000.0	2,969.3	3,006.8	2,990.1	9.6	7.2	175.71	-170.4	-150.5	504.6	489.7	14.93	33.809		
3,040.0	3,008.1	3,044.5	3,026.6	9.7	7.3	176.86	-162.8	-156.1	513.1	498.0	15.14	33.893		
3,100.0	3,066.3	3,101.0	3,081.3	10.0	7.6	178.51	-151.4	-164.5	526.2	510.8	15.46	34.039		
3,135.0	3,100.3	3,134.0	3,113.3	10.1	7.7	179.44	-144.7	-169.3	534.1	518.4	15.65	34.129		
3,200.0	3,163.3	3,195.3	3,172.6	10.4	7.9	-178.90	-132.3	-178.4	549.0	533.0	16.00	34.312		
3,230.0	3,192.5	3,223.6	3,200.0	10.5	8.0	-178.16	-126.6	-182.6	556.0	539.9	16.16	34.400		
3,300.0	3,260.4	3,289.6	3,263.8	10.8	8.3	-176.51	-113.2	-192.3	572.8	556.3	16.55	34.615		
3,325.0	3,284.6	3,313.1	3,286.7	10.9	8.4	-175.94	-108.5	-195.8	578.9	562.2	16.69	34.694		
3,400.0	3,357.4	3,383.8	3,355.1	11.2	8.7	-174.31	-94.2	-206.2	597.5	580.4	17.10	34.936		
3,420.0	3,376.8	3,402.7	3,373.4	11.3	8.8	-173.89	-90.4	-209.0	602.6	585.4	17.22	35.001		
3,500.0	3,454.4	3,478.1	3,446.4	11.7	9.1	-172.27	-75.1	-220.1	623.1	605.4	17.67	35.265		
3,515.0	3,469.0	3,492.2	3,460.1	11.7	9.2	-171.98	-72.3	-222.2	627.0	609.2	17.75	35.315		
3,600.0	3,551.5	3,572.3	3,537.6	12.1	9.5	-170.39	-56.1	-234.1	649.3	631.1	18.24	35.596		
3,610.0	3,561.2	3,581.8	3,546.8	12.2	9.5	-170.21	-54.2	-235.5	652.0	633.7	18.30	35.629		
3,700.0	3,648.5	3,666.6	3,628.9	12.6	9.9	-168.65	-37.0	-248.0	676.2	657.4	18.82	35.924		
3,705.0	3,653.3	3,671.3	3,633.4	12.6	9.9	-168.57	-36.1	-248.7	677.6	658.7	18.85	35.940		
3,800.0	3,745.5	3,760.9	3,720.1	13.0	10.3	-167.04	-17.9	-261.9	703.7	684.2	19.41	36.244		
3,895.0	3,837.7	3,850.4	3,806.8	13.4	10.7	-165.62	0.2	-275.1	730.2	710.2	19.98	36.541		
3,900.0	3,842.6	3,855.1	3,811.4	13.5	10.7	-165.55	1.1	-275.8	731.6	711.6	20.01	36.556		
3,990.0	3,929.9	3,940.0	3,893.5	13.9	11.1	-164.29	18.3	-288.4	757.1	736.6	20.56	36.827		
4,000.0	3,939.6	3,949.4	3,902.7	13.9	11.2	-164.16	20.2	-289.8	760.0	739.3	20.62	36.857		
4,085.0	4,022.1	4,029.5	3,980.2	14.3	11.5	-163.06	36.4	-301.6	784.4	763.3	21.14	37.103		
4,100.0	4,036.6	4,043.6	3,993.9	14.4	11.6	-162.87	39.2	-303.7	788.7	767.5	21.23	37.146		
4,180.0	4,114.2	4,119.1	4,066.9	14.7	11.9	-161.90	54.5	-314.8	812.0	790.3	21.73	37.369		
4,200.0	4,133.6	4,137.9	4,085.2	14.8	12.0	-161.67	58.3	-317.6	817.8	796.0	21.85	37.424		
4,275.0	4,206.4	4,208.6	4,153.6	15.2	12.3	-160.82	72.6	-328.0	839.9	817.6	22.32	37.624		
4,300.0	4,230.7	4,232.2	4,176.4	15.3	12.5	-160.55	77.4	-331.5	847.3	824.8	22.48	37.689		
4,370.0	4,298.6	4,298.1	4,240.3	15.6	12.8	-159.81	90.7	-341.3	868.1	845.1	22.92	37.868		
4,400.0	4,327.7	4,326.4	4,267.7	15.7	12.9	-159.50	96.4	-345.4	877.0	853.9	23.11	37.943		
4,465.0	4,390.8	4,387.7	4,327.0	16.0	13.2	-158.86	108.8	-354.5	896.5	872.9	23.53	38.101		
4,500.0	4,424.7	4,420.7	4,359.0	16.2	13.3	-158.53	115.5	-359.4	907.0	883.2	23.75	38.185		
4,537.3	4,460.9	4,455.8	4,393.0	16.4	13.5	-158.18	122.6	-364.6	918.2	894.2	23.98	38.289		
4,560.0	4,483.0	4,477.3	4,413.7	16.5	13.6	-158.02	126.9	-367.7	925.0	900.9	24.12	38.345		
4,600.0	4,521.9	4,515.1	4,450.4	16.6	13.8	-157.74	134.6	-373.3	936.6	912.2	24.37	38.425		
4,655.0	4,575.7	4,567.3	4,500.9	16.9	14.0	-157.34	145.1	-381.0	951.7	927.0	24.74	38.476		
4,700.0	4,619.8	4,610.2	4,542.4	17.1	14.2	-157.00	153.8	-387.3	963.5	938.5	25.03	38.490		
4,750.0	4,669.0	4,657.9	4,588.6	17.4	14.4	-156.61	163.5	-394.4	975.9	950.6	25.36	38.488		
4,800.0	4,718.4	4,705.8	4,635.0	17.6	14.7	-156.21	173.1	-401.5	987.6	961.9	25.68	38.456		
4,845.0	4,762.9	4,749.0	4,676.8	17.8	14.9	-155.84	181.9	-407.9	997.6	971.6	25.97	38.416		
4,900.0	4,817.5	4,801.9	4,728.0	18.0	15.1	-155.38	192.6	-415.7	1,008.9	982.6	26.32	38.338		
4,940.0	4,857.2	4,840.4	4,765.3	18.2	15.3	-155.03	200.4	-421.4	1,016.7	990.1	26.56	38.274		
5,000.0	4,916.9	4,898.4	4,821.4	18.4	15.6	-154.48	212.1	-429.9	1,027.4	1,000.5	26.93	38.148		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
5,035.0	4,951.8	4,932.2	4,854.1	18.6	15.7	-154.15	218.9	-434.9	1,033.3	1,006.1	27.14	38.074		
5,100.0	5,016.7	4,995.0	4,915.0	18.8	16.0	-153.52	231.6	-444.2	1,043.2	1,015.7	27.52	37.904		
5,130.0	5,046.7	5,024.1	4,943.1	18.9	16.2	-153.22	237.5	-448.5	1,047.4	1,019.7	27.68	37.834		
5,200.0	5,116.7	5,091.8	5,008.7	19.1	16.5	-152.49	251.2	-458.5	1,056.3	1,028.2	28.06	37.638		
5,225.0	5,141.7	5,116.1	5,032.2	19.2	16.6	-152.22	256.1	-462.1	1,059.2	1,031.0	28.16	37.616		
5,237.3	5,154.0	5,128.0	5,043.7	19.2	16.7	-101.30	258.5	-463.8	1,060.5	1,032.3	28.20	37.602		
5,300.0	5,216.7	5,188.7	5,102.5	19.2	16.9	-100.55	270.8	-472.8	1,067.4	1,039.0	28.39	37.593		
5,320.0	5,236.7	5,208.0	5,121.2	19.2	17.0	-100.32	274.7	-475.6	1,069.6	1,041.1	28.46	37.584		
5,400.0	5,316.7	5,285.5	5,196.2	19.3	17.4	-99.38	290.4	-487.1	1,078.7	1,050.0	28.73	37.551		
5,415.0	5,331.7	5,300.0	5,210.2	19.3	17.5	-99.21	293.3	-489.2	1,080.5	1,051.7	28.78	37.545		
5,500.0	5,416.7	5,382.3	5,289.9	19.3	17.9	-98.24	309.9	-501.4	1,090.5	1,061.4	29.07	37.510		
5,510.0	5,426.7	5,392.0	5,299.3	19.3	17.9	-98.12	311.9	-502.8	1,091.7	1,062.6	29.11	37.506		
5,600.0	5,516.7	5,479.1	5,383.6	19.3	18.3	-97.11	329.5	-515.7	1,102.7	1,073.3	29.43	37.470		
5,605.0	5,521.7	5,483.9	5,388.3	19.3	18.4	-97.06	330.5	-516.4	1,103.4	1,073.9	29.45	37.468		
5,700.0	5,616.7	5,575.9	5,477.4	19.4	18.8	-96.02	349.1	-530.0	1,115.4	1,085.6	29.80	37.430		
5,795.0	5,711.7	5,667.9	5,566.4	19.4	19.2	-95.00	367.7	-543.6	1,127.8	1,097.7	30.16	37.395		
5,800.0	5,716.7	5,672.7	5,571.1	19.4	19.3	-94.94	368.7	-544.3	1,128.5	1,098.3	30.18	37.393		
5,890.0	5,806.7	5,777.8	5,673.1	19.5	19.8	-93.85	389.0	-559.1	1,140.1	1,109.5	30.63	37.217		
5,900.0	5,816.7	5,790.3	5,685.3	19.5	19.8	-93.74	391.2	-560.7	1,141.3	1,110.6	30.69	37.189		
5,985.0	5,901.7	5,897.1	5,789.9	19.5	20.4	-92.83	408.4	-573.3	1,150.6	1,119.5	31.14	36.947		
6,000.0	5,916.7	5,916.1	5,808.6	19.5	20.4	-92.69	411.2	-575.3	1,152.1	1,120.9	31.22	36.904		
6,080.0	5,996.7	6,018.2	5,909.5	19.6	20.9	-92.03	424.2	-584.8	1,159.2	1,127.6	31.62	36.660		
6,100.0	6,016.7	6,043.9	5,934.9	19.6	21.0	-91.88	427.0	-586.9	1,160.7	1,129.0	31.71	36.599		
6,175.0	6,091.7	6,140.8	6,031.2	19.6	21.4	-91.43	435.9	-593.4	1,165.6	1,133.5	32.05	36.363		
6,200.0	6,116.7	6,173.2	6,063.5	19.6	21.6	-91.31	438.3	-595.1	1,166.9	1,134.7	32.16	36.283		
6,270.0	6,186.7	6,264.4	6,154.4	19.7	21.9	-91.06	443.5	-598.9	1,169.7	1,137.3	32.43	36.064		
6,300.0	6,216.7	6,303.6	6,193.6	19.7	22.1	-90.98	445.0	-600.0	1,170.5	1,138.0	32.54	35.969		
6,365.0	6,281.7	6,388.6	6,278.6	19.7	22.3	-90.89	446.7	-601.3	1,171.5	1,138.8	32.74	35.787		
6,400.0	6,316.7	6,431.0	6,321.0	19.7	22.4	-90.89	446.9	-601.4	1,171.6	1,138.8	32.79	35.730		
6,460.0	6,376.7	6,491.0	6,381.0	19.8	22.4	-90.89	446.9	-601.4	1,171.6	1,138.7	32.85	35.665		
6,500.0	6,416.7	6,531.0	6,421.0	19.8	22.4	-90.89	446.9	-601.4	1,171.6	1,138.7	32.89	35.618		
6,555.0	6,471.7	6,586.0	6,476.0	19.8	22.4	-90.89	446.9	-601.4	1,171.6	1,138.6	32.95	35.552		
6,600.0	6,516.7	6,631.0	6,521.0	19.8	22.5	-90.89	446.9	-601.4	1,171.6	1,138.6	33.00	35.498		
6,650.0	6,566.7	6,681.0	6,571.0	19.9	22.5	-90.89	446.9	-601.4	1,171.6	1,138.5	33.06	35.438		
6,700.0	6,616.7	6,731.0	6,621.0	19.9	22.5	-90.89	446.9	-601.4	1,171.6	1,138.5	33.12	35.378		
6,745.0	6,661.7	6,776.0	6,666.0	19.9	22.5	-90.89	446.9	-601.4	1,171.6	1,138.4	33.17	35.324		
6,800.0	6,716.7	6,831.0	6,721.0	19.9	22.5	-90.89	446.9	-601.4	1,171.6	1,138.4	33.23	35.258		
6,840.0	6,756.7	6,871.0	6,761.0	19.9	22.6	-90.89	446.9	-601.4	1,171.6	1,138.3	33.27	35.210		
6,900.0	6,816.7	6,931.0	6,821.0	20.0	22.6	-90.89	446.9	-601.4	1,171.6	1,138.3	33.34	35.138		
6,935.0	6,851.7	6,966.0	6,856.0	20.0	22.6	-90.89	446.9	-601.4	1,171.6	1,138.2	33.38	35.097		
7,000.0	6,916.7	7,031.0	6,921.0	20.0	22.6	-90.89	446.9	-601.4	1,171.6	1,138.1	33.45	35.021		
7,030.0	6,946.7	7,061.0	6,951.0	20.0	22.6	-90.89	446.9	-601.4	1,171.6	1,138.1	33.49	34.987		
7,036.2	6,952.9	7,067.3	6,957.2	20.0	22.6	-90.89	446.9	-601.4	1,171.6	1,138.1	33.49	34.980		
7,100.0	7,016.7	7,129.2	7,019.2	20.1	22.7	-90.94	445.7	-601.4	1,171.6	1,138.1	33.54	34.928		
7,125.0	7,041.7	7,152.9	7,042.8	20.1	22.7	-91.04	443.8	-601.4	1,171.7	1,138.1	33.55	34.919		
7,200.0	7,116.7	7,222.5	7,111.3	20.1	22.8	-91.60	432.3	-601.5	1,172.1	1,138.5	33.56	34.929		
7,220.0	7,136.7	7,240.5	7,128.8	20.1	22.8	-91.81	428.0	-601.5	1,172.2	1,138.7	33.55	34.940		
7,300.0	7,216.7	7,309.3	7,194.1	20.2	22.8	-92.86	406.6	-601.7	1,173.5	1,140.0	33.51	35.025		
7,315.0	7,231.7	7,321.5	7,205.5	20.2	22.8	-93.08	401.9	-601.8	1,173.9	1,140.4	33.49	35.048		
7,400.0	7,316.7	7,386.8	7,264.1	20.2	22.9	-94.48	373.2	-602.0	1,177.0	1,143.6	33.41	35.229		
7,410.0	7,326.7	7,394.0	7,270.3	20.2	22.9	-94.65	369.7	-602.0	1,177.5	1,144.1	33.40	35.257		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
7,500.0	7,416.7	7,450.0	7,317.3	20.3	23.0	-96.12	339.3	-602.3	1,183.6	1,150.3	33.29	35.557		
7,505.0	7,421.7	7,457.3	7,323.2	20.3	23.0	-96.33	335.0	-602.3	1,184.0	1,150.7	33.27	35.588		
7,600.0	7,516.7	7,511.7	7,365.4	20.3	23.0	-97.98	300.7	-602.6	1,194.3	1,161.1	33.11	36.066		
7,695.0	7,611.7	7,550.0	7,393.0	20.4	23.0	-99.24	274.2	-602.8	1,209.0	1,176.0	32.95	36.694		
7,700.0	7,616.7	7,560.4	7,400.3	20.4	23.1	-99.60	266.6	-602.8	1,209.9	1,176.9	32.92	36.752		
7,790.0	7,706.7	7,600.0	7,426.4	20.4	23.1	-101.00	236.9	-603.1	1,228.5	1,195.8	32.72	37.546		
7,800.0	7,716.7	7,600.0	7,426.4	20.4	23.1	-101.00	236.9	-603.1	1,230.9	1,198.2	32.71	37.635		
7,885.0	7,801.7	7,631.9	7,445.9	20.5	23.1	-102.19	211.6	-603.3	1,253.2	1,220.7	32.50	38.556		
7,900.0	7,816.7	7,636.9	7,448.8	20.5	23.1	-102.37	207.6	-603.3	1,257.6	1,225.1	32.47	38.733		
7,980.0	7,896.7	7,650.0	7,456.3	20.5	23.1	-102.87	196.9	-603.4	1,283.2	1,250.9	32.30	39.734		
8,000.0	7,916.7	7,666.8	7,465.6	20.5	23.1	-103.52	182.8	-603.5	1,290.1	1,257.8	32.23	40.029		
8,075.0	7,991.7	7,686.5	7,475.9	20.6	23.2	-104.29	166.1	-603.6	1,318.1	1,286.0	32.05	41.127		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Rule Assigned:	Between	Between	Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	3.9	3.9	3.0	3.0	-175.21	-300.5	-25.2	301.6				
95.0	95.0	98.9	98.9	3.0	3.0	-175.21	-300.5	-25.2	301.6	295.5	6.02	50.108	
100.0	100.0	103.9	103.9	3.0	3.0	-175.21	-300.5	-25.2	301.6	295.5	6.02	50.083	
190.0	190.0	193.9	193.9	3.1	3.0	-175.21	-300.5	-25.2	301.6	295.4	6.13	49.162	
200.0	200.0	203.9	203.9	3.1	3.0	-175.21	-300.5	-25.2	301.6	295.4	6.15	49.016	
285.0	285.0	288.9	288.9	3.3	3.0	-175.21	-300.5	-25.2	301.6	295.3	6.27	48.132	
300.0	300.0	303.9	303.9	3.3	3.0	-175.21	-300.5	-25.2	301.6	295.3	6.29	47.957	
380.0	380.0	383.9	383.9	3.4	3.0	-175.21	-300.5	-25.2	301.6	295.2	6.40	47.130	
400.0	400.0	403.9	403.9	3.4	3.0	-175.21	-300.5	-25.2	301.6	295.1	6.43	46.909	
475.0	475.0	478.9	478.9	3.5	3.0	-175.21	-300.5	-25.2	301.6	295.0	6.54	46.140	
500.0	500.0	503.9	503.9	3.5	3.1	-175.21	-300.5	-25.2	301.6	295.0	6.57	45.872	
570.0	570.0	573.9	573.9	3.6	3.1	-175.21	-300.5	-25.2	301.6	294.9	6.68	45.162	
600.0	600.0	603.9	603.9	3.6	3.1	-175.21	-300.5	-25.2	301.6	294.8	6.72	44.849	
665.0	665.0	668.9	668.9	3.7	3.1	-175.21	-300.5	-25.2	301.6	294.7	6.82	44.198	
700.0	700.0	703.9	703.9	3.8	3.1	-175.21	-300.5	-25.2	301.6	294.7	6.88	43.841	
760.0	760.0	763.9	763.9	3.8	3.1	-175.21	-300.5	-25.2	301.6	294.6	6.97	43.249	
800.0	800.0	803.9	803.9	3.9	3.2	-175.21	-300.5	-25.2	301.6	294.5	7.04	42.850	
855.0	855.0	858.9	858.9	4.0	3.2	-175.21	-300.5	-25.2	301.6	294.4	7.13	42.316	
900.0	900.0	903.9	903.9	4.0	3.2	-175.21	-300.5	-25.2	301.6	294.4	7.20	41.877	
950.0	950.0	953.9	953.9	4.1	3.2	-175.21	-300.5	-25.2	301.6	294.3	7.28	41.401	
1,000.0	1,000.0	1,003.9	1,003.9	4.1	3.2	-175.21	-300.5	-25.2	301.6	294.2	7.37	40.923	
1,045.0	1,045.0	1,048.9	1,048.9	4.2	3.3	-175.21	-300.5	-25.2	301.6	294.1	7.45	40.504	
1,100.0	1,100.0	1,103.9	1,103.9	4.2	3.3	-175.21	-300.5	-25.2	301.6	294.0	7.54	39.991	
1,140.0	1,140.0	1,143.9	1,143.9	4.3	3.3	-175.21	-300.5	-25.2	301.6	293.9	7.61	39.626	
1,200.0	1,200.0	1,203.9	1,203.9	4.4	3.4	-175.21	-300.5	-25.2	301.6	293.8	7.72	39.080	
1,235.0	1,235.0	1,238.9	1,238.9	4.4	3.4	-175.21	-300.5	-25.2	301.6	293.8	7.78	38.768	
1,300.0	1,300.0	1,303.9	1,303.9	4.5	3.4	-175.21	-300.5	-25.2	301.6	293.7	7.90	38.191	
1,330.0	1,330.0	1,333.9	1,333.9	4.5	3.4	-175.21	-300.5	-25.2	301.6	293.6	7.95	37.930	
1,400.0	1,400.0	1,403.9	1,403.9	4.6	3.5	-175.21	-300.5	-25.2	301.6	293.5	8.08	37.326	
1,425.0	1,425.0	1,428.9	1,428.9	4.6	3.5	-175.21	-300.5	-25.2	301.6	293.4	8.13	37.114	
1,500.0	1,500.0	1,503.9	1,503.9	4.7	3.5	-175.21	-300.5	-25.2	301.6	293.3	8.27	36.484 CC, ES	
1,520.0	1,520.0	1,523.9	1,523.9	4.7	3.6	134.01	-300.5	-25.2	301.6	293.3	8.31	36.305	
1,600.0	1,600.0	1,603.9	1,603.9	4.9	3.6	134.22	-300.5	-25.2	302.8	294.3	8.48	35.685	
1,615.0	1,615.0	1,618.9	1,618.9	4.9	3.6	134.29	-300.5	-25.2	303.2	294.6	8.53	35.557	
1,700.0	1,699.8	1,703.7	1,703.7	5.1	3.7	134.87	-300.5	-25.2	306.4	297.7	8.77	34.950	
1,710.0	1,709.8	1,713.7	1,713.7	5.1	3.7	134.96	-300.5	-25.2	306.9	298.2	8.80	34.892	
1,800.0	1,799.5	1,803.4	1,803.4	5.4	3.8	135.91	-300.5	-25.2	312.7	303.6	9.07	34.489	
1,805.0	1,804.4	1,808.3	1,808.3	5.4	3.8	135.97	-300.5	-25.2	313.0	304.0	9.08	34.472	
1,900.0	1,898.7	1,902.6	1,902.6	5.7	3.9	137.30	-300.5	-25.2	321.5	312.2	9.38	34.272	
1,995.0	1,992.5	1,996.4	1,996.4	6.0	3.9	138.87	-300.5	-25.2	332.6	322.9	9.71	34.271	
2,000.0	1,997.5	2,001.5	2,001.5	6.0	3.9	138.96	-300.5	-25.2	333.3	323.5	9.73	34.269	
2,090.0	2,085.8	2,101.7	2,101.7	6.3	4.2	140.95	-298.7	-25.2	344.8	334.6	10.22	33.732	
2,100.0	2,095.6	2,112.9	2,112.9	6.3	4.2	141.19	-298.3	-25.2	346.0	335.8	10.28	33.648	
2,185.0	2,178.5	2,207.6	2,207.4	6.6	4.5	143.37	-293.0	-25.2	356.5	345.7	10.83	32.906	
2,200.0	2,193.1	2,224.4	2,224.1	6.7	4.6	143.79	-291.7	-25.2	358.4	347.4	10.93	32.775	
2,280.0	2,270.7	2,313.7	2,313.0	6.9	4.9	146.12	-283.3	-25.1	367.1	355.7	11.44	32.093	
2,300.0	2,290.1	2,336.1	2,335.3	7.0	4.9	146.70	-280.8	-25.1	369.0	357.5	11.57	31.899	
2,375.0	2,362.9	2,420.1	2,418.6	7.2	5.2	148.92	-269.8	-25.1	375.1	363.1	12.07	31.091	
2,400.0	2,387.1	2,448.1	2,446.3	7.3	5.3	149.67	-265.5	-25.0	376.8	364.6	12.23	30.799	
2,470.0	2,455.0	2,526.6	2,523.6	7.5	5.6	151.80	-252.2	-25.0	380.6	367.9	12.70	29.968	
2,500.0	2,484.1	2,560.2	2,556.6	7.6	5.7	152.74	-245.9	-24.9	381.8	368.9	12.88	29.638	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Offset		Semi Major Axis		Offset Wellbore Centre		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,565.0	2,547.2	2,625.8	2,621.0	7.9	5.8	154.59	-232.8	-24.9	384.1	370.8	13.27	28.947		
2,600.0	2,581.2	2,660.2	2,654.6	8.0	6.0	155.55	-226.0	-24.8	385.4	372.0	13.49	28.565		
2,660.0	2,639.4	2,719.1	2,712.3	8.2	6.1	157.18	-214.3	-24.8	388.1	374.2	13.89	27.939		
2,700.0	2,678.2	2,758.3	2,750.8	8.4	6.3	158.25	-206.4	-24.7	390.0	375.8	14.16	27.549		
2,755.0	2,731.6	2,812.3	2,803.7	8.6	6.4	159.71	-195.7	-24.7	392.8	378.3	14.53	27.043		
2,800.0	2,775.2	2,856.5	2,847.0	8.8	6.6	160.89	-186.8	-24.6	395.4	380.6	14.83	26.658		
2,850.0	2,823.7	2,905.6	2,895.1	9.0	6.8	162.19	-177.1	-24.6	398.4	383.2	15.17	26.256		
2,900.0	2,872.3	2,954.6	2,943.2	9.2	6.9	163.46	-167.3	-24.6	401.6	386.1	15.52	25.884		
2,945.0	2,915.9	2,998.8	2,986.4	9.3	7.1	164.59	-158.5	-24.5	404.7	388.9	15.83	25.573		
3,000.0	2,969.3	3,052.8	3,039.3	9.6	7.3	165.94	-147.7	-24.5	408.7	392.5	16.20	25.222		
3,040.0	3,008.1	3,092.0	3,077.8	9.7	7.5	166.91	-139.9	-24.4	411.7	395.2	16.48	24.986		
3,100.0	3,066.3	3,150.9	3,135.5	10.0	7.7	168.34	-128.1	-24.4	416.5	399.6	16.89	24.663		
3,135.0	3,100.3	3,185.3	3,169.2	10.1	7.8	169.16	-121.3	-24.3	419.4	402.3	17.13	24.489		
3,200.0	3,163.3	3,249.1	3,231.7	10.4	8.1	170.65	-108.5	-24.3	425.0	407.5	17.57	24.196		
3,230.0	3,192.5	3,278.5	3,260.5	10.5	8.2	171.33	-102.7	-24.2	427.7	410.0	17.77	24.072		
3,300.0	3,260.4	3,347.2	3,327.9	10.8	8.4	172.87	-89.0	-24.2	434.2	416.0	18.24	23.813		
3,325.0	3,284.6	3,371.8	3,351.9	10.9	8.5	173.41	-84.1	-24.2	436.6	418.2	18.40	23.728		
3,400.0	3,357.4	3,445.4	3,424.0	11.2	8.8	174.99	-69.4	-24.1	444.1	425.2	18.89	23.503		
3,420.0	3,376.8	3,465.0	3,443.3	11.3	8.9	175.41	-65.5	-24.1	446.1	427.1	19.03	23.449		
3,500.0	3,454.4	3,543.5	3,520.2	11.7	9.2	177.03	-49.8	-24.0	454.5	435.0	19.54	23.259		
3,515.0	3,469.0	3,558.3	3,534.6	11.7	9.3	177.32	-46.9	-24.0	456.1	436.5	19.64	23.228		
3,600.0	3,551.5	3,641.7	3,616.4	12.1	9.7	178.97	-30.2	-23.9	465.5	445.4	20.18	23.073		
3,610.0	3,561.2	3,651.5	3,626.0	12.2	9.7	179.16	-28.3	-23.9	466.7	446.4	20.24	23.057		
3,700.0	3,648.5	3,739.8	3,712.6	12.6	10.1	-179.18	-10.7	-23.8	477.0	456.2	20.80	22.936		
3,705.0	3,653.3	3,744.7	3,717.4	12.6	10.1	-179.09	-9.7	-23.8	477.6	456.8	20.83	22.930		
3,800.0	3,745.5	3,838.0	3,808.7	13.0	10.5	-177.42	8.9	-23.7	489.0	467.6	21.41	22.843		
3,895.0	3,837.7	3,931.2	3,900.1	13.4	10.9	-175.82	27.5	-23.6	500.8	478.9	21.98	22.791		
3,900.0	3,842.6	3,936.1	3,904.9	13.5	10.9	-175.74	28.5	-23.6	501.5	479.5	22.01	22.789		
3,990.0	3,929.9	4,024.5	3,991.5	13.9	11.3	-174.29	46.1	-23.5	513.0	490.5	22.53	22.768		
4,000.0	3,939.6	4,034.3	4,001.1	13.9	11.3	-174.14	48.1	-23.5	514.3	491.7	22.59	22.767		
4,085.0	4,022.1	4,117.7	4,082.8	14.3	11.7	-172.84	64.7	-23.4	525.5	502.5	23.08	22.771		
4,100.0	4,036.6	4,132.4	4,097.3	14.4	11.7	-172.61	67.6	-23.4	527.6	504.4	23.16	22.774		
4,180.0	4,114.2	4,210.9	4,174.2	14.7	12.1	-171.45	83.3	-23.3	538.4	514.8	23.62	22.797		
4,200.0	4,133.6	4,230.6	4,193.5	14.8	12.2	-171.17	87.2	-23.3	541.1	517.4	23.73	22.805		
4,275.0	4,206.4	4,304.2	4,265.6	15.2	12.5	-170.13	101.9	-23.2	551.5	527.4	24.15	22.843		
4,300.0	4,230.7	4,328.7	4,289.6	15.3	12.6	-169.79	106.8	-23.2	555.1	530.8	24.28	22.858		
4,370.0	4,298.6	4,397.4	4,357.0	15.6	12.9	-168.86	120.5	-23.2	565.0	540.3	24.67	22.905		
4,400.0	4,327.7	4,426.9	4,385.8	15.7	13.0	-168.48	126.4	-23.1	569.3	544.4	24.83	22.928		
4,465.0	4,390.8	4,490.7	4,448.3	16.0	13.3	-167.66	139.1	-23.1	578.7	553.5	25.18	22.983		
4,500.0	4,424.7	4,525.0	4,482.0	16.2	13.5	-167.23	145.9	-23.0	583.8	558.4	25.37	23.014		
4,537.3	4,460.9	4,561.6	4,517.8	16.4	13.6	-166.78	153.2	-23.0	589.3	563.7	25.55	23.060		
4,560.0	4,483.0	4,583.9	4,539.7	16.5	13.7	-166.53	157.7	-23.0	592.5	566.9	25.67	23.083		
4,600.0	4,521.9	4,623.2	4,578.2	16.6	13.9	-166.07	165.5	-22.9	597.9	572.0	25.87	23.110		
4,655.0	4,575.7	4,677.4	4,631.3	16.9	14.2	-165.43	176.3	-22.9	604.4	578.3	26.16	23.106		
4,700.0	4,619.8	4,721.7	4,674.8	17.1	14.4	-164.90	185.2	-22.8	609.1	582.7	26.39	23.082		
4,750.0	4,669.0	4,771.1	4,723.1	17.4	14.6	-164.30	195.0	-22.8	613.6	587.0	26.63	23.042		
4,800.0	4,718.4	4,820.5	4,771.5	17.6	14.8	-163.68	204.9	-22.7	617.3	590.4	26.86	22.979		
4,845.0	4,762.9	4,864.9	4,815.1	17.8	15.0	-163.10	213.7	-22.7	620.0	592.9	27.06	22.914		
4,900.0	4,817.5	4,919.3	4,868.3	18.0	15.2	-162.38	224.6	-22.7	622.5	595.2	27.29	22.813		
4,940.0	4,857.2	4,958.8	4,907.0	18.2	15.4	-161.83	232.4	-22.6	623.7	596.3	27.43	22.734		
5,000.0	4,916.9	5,018.0	4,965.1	18.4	15.7	-160.98	244.3	-22.6	624.7	597.0	27.65	22.595		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,035.0	4,951.8	5,052.6	4,998.9	18.6	15.8	-160.47	251.1	-22.5	624.8	597.0	27.75	22.513		
5,100.0	5,016.7	5,116.6	5,061.7	18.8	16.1	-159.48	263.9	-22.5	624.0	596.1	27.93	22.339		
5,130.0	5,046.7	5,146.2	5,090.7	18.9	16.3	-159.00	269.8	-22.4	623.2	595.2	27.99	22.265		
5,200.0	5,116.7	5,215.0	5,158.1	19.1	16.6	-157.83	283.5	-22.4	620.5	592.4	28.12	22.069		
5,225.0	5,141.7	5,239.5	5,182.1	19.2	16.7	-157.40	288.4	-22.3	619.2	591.1	28.11	22.029		
5,237.3	5,154.0	5,251.6	5,193.9	19.2	16.7	-106.39	290.8	-22.3	618.5	590.4	28.11	22.007		
5,300.0	5,216.7	5,313.0	5,254.1	19.2	17.0	-105.29	303.1	-22.3	615.0	587.0	28.03	21.944		
5,320.0	5,236.7	5,332.6	5,273.3	19.2	17.1	-104.94	307.0	-22.3	613.9	585.9	28.00	21.924		
5,400.0	5,316.7	5,411.0	5,350.1	19.3	17.5	-103.52	322.6	-22.2	609.8	581.9	27.90	21.855		
5,415.0	5,331.7	5,425.7	5,364.5	19.3	17.5	-103.25	325.6	-22.2	609.1	581.2	27.88	21.844		
5,500.0	5,416.7	5,509.0	5,446.2	19.3	17.9	-101.72	342.2	-22.1	605.3	577.5	27.77	21.795		
5,510.0	5,426.7	5,518.8	5,455.8	19.3	18.0	-101.54	344.1	-22.1	604.9	577.1	27.76	21.790		
5,600.0	5,516.7	5,607.0	5,542.2	19.3	18.4	-99.90	361.7	-22.0	601.4	573.7	27.64	21.761		
5,605.0	5,521.7	5,611.9	5,547.0	19.3	18.4	-99.81	362.7	-22.0	601.2	573.6	27.63	21.760		
5,700.0	5,616.7	5,704.9	5,638.2	19.4	18.8	-98.06	381.3	-21.9	598.1	570.6	27.50	21.751		
5,795.0	5,711.7	5,798.0	5,729.4	19.4	19.2	-96.29	399.8	-21.8	595.6	568.2	27.37	21.758		
5,800.0	5,716.7	5,802.9	5,734.2	19.4	19.3	-96.19	400.8	-21.8	595.5	568.1	27.37	21.760		
5,890.0	5,806.7	5,889.9	5,819.6	19.5	19.6	-94.60	417.4	-21.7	593.8	566.5	27.24	21.800		
5,900.0	5,816.7	5,900.0	5,829.5	19.5	19.7	-94.43	419.1	-21.7	593.6	566.4	27.23	21.801		
5,985.0	5,901.7	5,982.3	5,910.8	19.5	20.1	-93.18	432.2	-21.6	592.6	565.5	27.18	21.806		
6,000.0	5,916.7	5,997.0	5,925.3	19.5	20.1	-92.97	434.3	-21.6	592.5	565.3	27.17	21.805		
6,080.0	5,996.7	6,075.5	6,003.3	19.6	20.5	-92.02	444.2	-21.6	592.0	564.8	27.17	21.790		
6,100.0	6,016.7	6,095.3	6,022.9	19.6	20.6	-91.81	446.3	-21.6	591.9	564.8	27.17	21.782		
6,175.0	6,091.7	6,169.5	6,096.8	19.6	20.9	-91.15	453.2	-21.5	591.7	564.5	27.21	21.749		
6,200.0	6,116.7	6,194.3	6,121.5	19.6	21.0	-90.96	455.1	-21.5	591.7	564.4	27.22	21.734		
6,270.0	6,186.7	6,263.9	6,191.0	19.7	21.2	-90.57	459.2	-21.5	591.6	564.3	27.28	21.685		
6,300.0	6,216.7	6,293.8	6,220.8	19.7	21.3	-90.45	460.4	-21.5	591.6	564.3	27.31	21.659		
6,365.0	6,281.7	6,358.6	6,285.7	19.7	21.5	-90.29	462.0	-21.5	591.6	564.2	27.39	21.599		
6,400.0	6,316.7	6,393.5	6,320.6	19.7	21.5	-90.26	462.3	-21.5	591.6	564.1	27.44	21.561		
6,421.6	6,338.3	6,415.1	6,342.2	19.7	21.6	-90.26	462.3	-21.5	591.6	564.1	27.47	21.538		
6,460.0	6,376.7	6,453.5	6,380.6	19.8	21.6	-90.26	462.3	-21.5	591.6	564.0	27.52	21.495		
6,500.0	6,416.7	6,493.5	6,420.6	19.8	21.6	-90.26	462.3	-21.5	591.6	564.0	27.58	21.450		
6,555.0	6,471.7	6,548.5	6,475.6	19.8	21.6	-90.26	462.3	-21.5	591.6	563.9	27.66	21.389		
6,600.0	6,516.7	6,593.5	6,520.6	19.8	21.6	-90.26	462.3	-21.5	591.6	563.8	27.72	21.340		
6,650.0	6,566.7	6,643.5	6,570.6	19.9	21.7	-90.26	462.3	-21.5	591.6	563.8	27.79	21.285		
6,700.0	6,616.7	6,693.5	6,620.6	19.9	21.7	-90.26	462.3	-21.5	591.6	563.7	27.86	21.230		
6,745.0	6,661.7	6,738.5	6,665.6	19.9	21.7	-90.26	462.3	-21.5	591.6	563.6	27.93	21.181		
6,800.0	6,716.7	6,793.5	6,720.6	19.9	21.7	-90.26	462.3	-21.5	591.6	563.6	28.01	21.121		
6,840.0	6,756.7	6,833.5	6,760.6	19.9	21.8	-90.26	462.3	-21.5	591.6	563.5	28.07	21.078		
6,900.0	6,816.7	6,893.5	6,820.6	20.0	21.8	-90.26	462.3	-21.5	591.6	563.4	28.15	21.014		
6,935.0	6,851.7	6,928.5	6,855.6	20.0	21.8	-90.26	462.3	-21.5	591.6	563.4	28.20	20.976		
7,000.0	6,916.7	6,993.5	6,920.6	20.0	21.8	-90.26	462.3	-21.5	591.6	563.3	28.29	20.907		
7,030.0	6,946.7	7,023.5	6,950.6	20.0	21.8	-90.26	462.3	-21.5	591.6	563.2	28.34	20.875		
7,100.0	7,016.7	7,093.5	7,020.6	20.1	21.9	-90.26	462.3	-21.5	591.6	563.1	28.44	20.801		
7,125.0	7,041.7	7,118.5	7,045.6	20.1	21.9	-90.26	462.3	-21.5	591.6	563.1	28.47	20.775		
7,200.0	7,116.7	7,193.5	7,120.6	20.1	21.9	-90.26	462.3	-21.5	591.6	563.0	28.58	20.697		
7,220.0	7,136.7	7,213.5	7,140.6	20.1	21.9	-90.26	462.3	-21.5	591.6	562.9	28.61	20.676		
7,300.0	7,216.7	7,293.5	7,220.6	20.2	22.0	-90.26	462.3	-21.5	591.6	562.8	28.73	20.593		
7,315.0	7,231.7	7,308.5	7,235.6	20.2	22.0	-90.26	462.3	-21.5	591.6	562.8	28.75	20.578		
7,400.0	7,316.7	7,393.5	7,320.6	20.2	22.0	-90.26	462.3	-21.5	591.6	562.7	28.87	20.490		
7,410.0	7,326.7	7,403.5	7,330.6	20.2	22.0	-90.26	462.3	-21.5	591.6	562.7	28.88	20.481		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 Wellbore Centre			Rule Assigned:				Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)			Toolface (")								
7,417.1	7,333.7	7,410.6	7,337.6	20.2	22.0	-90.26	462.3	-21.5	591.6	562.7	28.89	20.476		
7,500.0	7,416.7	7,493.1	7,420.1	20.3	22.1	-90.36	461.3	-21.5	591.6	562.6	28.97	20.419		
7,505.0	7,421.7	7,498.0	7,425.0	20.3	22.1	-90.39	461.0	-21.5	591.6	562.6	28.98	20.414		
7,600.0	7,516.7	7,589.5	7,515.4	20.3	22.2	-91.70	447.5	-21.6	592.0	562.8	29.18	20.289		
7,695.0	7,611.7	7,674.8	7,596.8	20.4	22.3	-94.14	422.1	-21.8	593.7	564.2	29.48	20.140		
7,700.0	7,616.7	7,679.0	7,600.7	20.4	22.3	-94.30	420.6	-21.8	593.9	564.4	29.50	20.133		
7,790.0	7,706.7	7,750.0	7,664.7	20.4	22.4	-97.22	390.0	-22.1	598.6	568.8	29.83	20.071		
7,800.0	7,716.7	7,758.6	7,672.2	20.4	22.4	-97.63	385.7	-22.1	599.4	569.5	29.88	20.061	SF	
7,885.0	7,801.7	7,817.6	7,721.7	20.5	22.4	-100.64	353.7	-22.4	608.6	578.4	30.18	20.163		
7,900.0	7,816.7	7,827.2	7,729.4	20.5	22.5	-101.17	348.0	-22.4	610.7	580.5	30.23	20.202		
7,980.0	7,896.7	7,874.6	7,766.1	20.5	22.5	-103.92	318.1	-22.6	625.3	594.8	30.44	20.543		
8,000.0	7,916.7	7,885.5	7,774.2	20.5	22.5	-104.58	310.8	-22.7	629.7	599.3	30.47	20.665		
8,075.0	7,991.7	7,923.0	7,801.0	20.6	22.6	-106.94	284.4	-22.9	649.7	619.1	30.56	21.261		
8,100.0	8,016.7	7,934.5	7,808.8	20.6	22.6	-107.67	276.1	-23.0	657.4	626.9	30.57	21.509		
8,170.0	8,086.7	7,964.2	7,828.3	20.6	22.6	-109.61	253.7	-23.2	682.2	651.6	30.54	22.334		
8,200.0	8,116.7	7,975.9	7,835.6	20.6	22.6	-110.38	244.6	-23.2	694.1	663.6	30.52	22.744		
8,265.0	8,181.7	8,000.0	7,850.2	20.7	22.6	-112.00	225.3	-23.4	722.6	692.1	30.45	23.733		
8,300.0	8,216.7	8,000.0	7,850.2	20.7	22.6	-112.00	225.3	-23.4	739.5	709.3	30.19	24.495		
8,360.0	8,276.7	8,029.2	7,866.7	20.7	22.7	-113.96	201.2	-23.6	770.3	740.0	30.27	25.444		
8,400.0	8,316.7	8,050.0	7,877.7	20.7	22.7	-115.36	183.6	-23.7	792.4	762.1	30.35	26.107		
8,455.0	8,371.7	8,050.0	7,877.7	20.8	22.7	-115.36	183.6	-23.7	824.4	794.4	30.03	27.456		
8,500.0	8,416.7	8,066.1	7,885.7	20.8	22.7	-116.44	169.7	-23.8	852.0	822.0	30.03	28.371		
8,550.0	8,466.7	8,077.5	7,891.2	20.8	22.7	-117.21	159.7	-23.9	884.1	854.2	29.96	29.507		
8,600.0	8,516.7	8,100.0	7,901.4	20.8	22.7	-118.71	139.6	-24.1	917.7	887.6	30.06	30.527		
8,645.0	8,561.7	8,100.0	7,901.4	20.9	22.7	-118.71	139.6	-24.1	948.6	918.7	29.90	31.725		
8,700.0	8,616.7	8,100.0	7,901.4	20.9	22.7	-118.71	139.6	-24.1	987.9	958.2	29.75	33.207		
8,740.0	8,656.7	8,100.0	7,901.4	20.9	22.7	-118.71	139.6	-24.1	1,017.4	987.7	29.67	34.292		
8,800.0	8,716.7	8,124.0	7,911.5	21.0	22.7	-120.29	117.9	-24.2	1,062.2	1,032.4	29.82	35.618		
8,835.0	8,751.7	8,129.3	7,913.6	21.0	22.7	-120.64	112.9	-24.3	1,089.1	1,059.3	29.83	36.507		
8,900.0	8,816.7	8,150.0	7,921.3	21.0	22.8	-121.99	93.8	-24.4	1,140.2	1,110.2	29.97	38.041		
8,930.0	8,846.7	8,150.0	7,921.3	21.0	22.8	-121.99	93.8	-24.4	1,164.0	1,134.0	29.96	38.855		
9,000.0	8,916.7	8,150.0	7,921.3	21.1	22.8	-121.99	93.8	-24.4	1,220.6	1,190.6	29.95	40.749		
9,025.0	8,941.7	8,150.0	7,921.3	21.1	22.8	-121.99	93.8	-24.4	1,241.1	1,211.2	29.96	41.423		
9,100.0	9,016.7	8,150.0	7,921.3	21.1	22.8	-121.99	93.8	-24.4	1,303.7	1,273.7	30.02	43.433		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	4.0	4.0	3.0	3.0	157.28	-149.0	62.4	161.5				
95.0	95.0	99.0	99.0	3.0	3.0	157.28	-149.0	62.4	161.5	155.5	6.04	26.754	
100.0	100.0	104.0	104.0	3.0	3.0	157.28	-149.0	62.4	161.5	155.5	6.04	26.727	
190.0	190.0	194.0	194.0	3.1	3.1	157.28	-149.0	62.4	161.5	155.3	6.26	25.787	
200.0	200.0	204.0	204.0	3.1	3.2	157.28	-149.0	62.4	161.5	155.2	6.30	25.655	
285.0	285.0	289.0	289.0	3.3	3.3	157.28	-149.0	62.4	161.5	155.0	6.50	24.836	
300.0	300.0	304.0	304.0	3.3	3.3	157.28	-149.0	62.4	161.5	155.0	6.54	24.682	
380.0	380.0	384.0	384.0	3.4	3.4	157.28	-149.0	62.4	161.5	154.8	6.74	23.973	
400.0	400.0	404.0	404.0	3.4	3.4	157.28	-149.0	62.4	161.5	154.7	6.79	23.791	
475.0	475.0	479.0	479.0	3.5	3.5	157.28	-149.0	62.4	161.5	154.6	6.97	23.177	
500.0	500.0	504.0	504.0	3.5	3.5	157.28	-149.0	62.4	161.5	154.5	7.03	22.970	
570.0	570.0	574.0	574.0	3.6	3.6	157.28	-149.0	62.4	161.5	154.3	7.20	22.438	
600.0	600.0	604.0	604.0	3.6	3.6	157.28	-149.0	62.4	161.5	154.3	7.27	22.211	
665.0	665.0	669.0	669.0	3.7	3.7	157.28	-149.0	62.4	161.5	154.1	7.43	21.752	
700.0	700.0	704.0	704.0	3.8	3.8	157.28	-149.0	62.4	161.5	154.0	7.51	21.506	
760.0	760.0	764.0	764.0	3.8	3.8	157.28	-149.0	62.4	161.5	153.9	7.65	21.111	
800.0	800.0	804.0	804.0	3.9	3.9	157.28	-149.0	62.4	161.5	153.8	7.75	20.849	
855.0	855.0	859.0	859.0	4.0	4.0	157.28	-149.0	62.4	161.5	153.7	7.88	20.510	
900.0	900.0	904.0	904.0	4.0	4.0	157.28	-149.0	62.4	161.5	153.6	7.98	20.236	
950.0	950.0	954.0	954.0	4.1	4.1	157.28	-149.0	62.4	161.5	153.4	8.10	19.947	
1,000.0	1,000.0	1,004.0	1,004.0	4.1	4.1	157.28	-149.0	62.4	161.5	153.3	8.22	19.661	
1,045.0	1,045.0	1,049.0	1,049.0	4.2	4.2	157.28	-149.0	62.4	161.5	153.2	8.32	19.417	
1,100.0	1,100.0	1,104.0	1,104.0	4.2	4.3	157.28	-149.0	62.4	161.5	153.1	8.45	19.122	
1,140.0	1,140.0	1,144.0	1,144.0	4.3	4.3	157.28	-149.0	62.4	161.5	153.0	8.54	18.917	
1,200.0	1,200.0	1,204.0	1,204.0	4.4	4.4	157.28	-149.0	62.4	161.5	152.9	8.68	18.613	
1,235.0	1,235.0	1,239.0	1,239.0	4.4	4.4	157.28	-149.0	62.4	161.5	152.8	8.76	18.444	
1,300.0	1,300.0	1,304.0	1,304.0	4.5	4.5	157.28	-149.0	62.4	161.5	152.6	8.91	18.134	
1,330.0	1,330.0	1,334.0	1,334.0	4.5	4.5	157.28	-149.0	62.4	161.5	152.6	8.98	17.997	
1,400.0	1,400.0	1,404.0	1,404.0	4.6	4.6	157.28	-149.0	62.4	161.5	152.4	9.14	17.681	
1,425.0	1,425.0	1,429.0	1,429.0	4.6	4.6	157.28	-149.0	62.4	161.5	152.3	9.19	17.572	
1,500.0	1,500.0	1,504.0	1,504.0	4.7	4.7	157.28	-149.0	62.4	161.5	152.2	9.36	17.250	
1,507.6	1,507.6	1,511.7	1,511.7	4.7	4.7	106.48	-149.0	62.4	161.5	152.2	9.38	17.214 CC	
1,520.0	1,520.0	1,524.3	1,524.3	4.7	4.8	106.47	-148.9	62.5	161.5	152.1	9.41	17.158	
1,600.0	1,600.0	1,605.1	1,605.1	4.9	4.9	106.41	-147.9	64.0	161.7	152.1	9.57	16.900 ES	
1,615.0	1,615.0	1,620.2	1,620.2	4.9	4.9	106.39	-147.6	64.5	161.7	152.1	9.62	16.820	
1,700.0	1,699.8	1,706.1	1,705.9	5.1	5.1	106.29	-144.9	68.6	162.2	152.3	9.88	16.408	
1,710.0	1,709.8	1,716.2	1,716.0	5.1	5.1	106.27	-144.5	69.2	162.2	152.3	9.92	16.362	
1,800.0	1,799.5	1,807.2	1,806.6	5.4	5.4	106.12	-140.0	76.1	163.0	152.8	10.20	15.986	
1,805.0	1,804.4	1,812.2	1,811.6	5.4	5.4	106.11	-139.7	76.6	163.0	152.8	10.21	15.966	
1,900.0	1,898.7	1,908.2	1,906.8	5.7	5.7	105.90	-133.0	86.7	164.2	153.7	10.51	15.623	
1,995.0	1,992.5	2,004.1	2,001.5	6.0	6.0	105.65	-124.7	99.4	165.6	154.8	10.81	15.323	
2,000.0	1,997.5	2,009.2	2,006.5	6.0	6.0	105.64	-124.2	100.1	165.7	154.8	10.82	15.309	
2,090.0	2,085.8	2,100.0	2,095.7	6.3	6.3	105.37	-114.6	114.7	167.3	156.2	11.11	15.059	
2,100.0	2,095.6	2,110.1	2,105.5	6.3	6.3	105.34	-113.4	116.5	167.5	156.4	11.14	15.033	
2,185.0	2,178.5	2,195.9	2,189.1	6.6	6.6	105.06	-102.8	132.7	169.4	157.9	11.43	14.823	
2,200.0	2,193.1	2,211.0	2,203.7	6.7	6.7	105.01	-100.8	135.7	169.7	158.2	11.48	14.788	
2,280.0	2,270.7	2,290.9	2,281.3	6.9	6.9	104.88	-90.1	151.9	171.7	159.9	11.75	14.608	
2,300.0	2,290.1	2,310.9	2,300.7	7.0	7.0	104.84	-87.5	155.9	172.1	160.3	11.82	14.564	
2,375.0	2,362.9	2,385.9	2,373.5	7.2	7.2	104.72	-77.5	171.1	174.0	161.9	12.08	14.394	
2,400.0	2,387.1	2,410.9	2,397.7	7.3	7.3	104.68	-74.2	176.1	174.6	162.4	12.17	14.339	
2,470.0	2,455.0	2,480.9	2,465.6	7.5	7.6	104.56	-64.9	190.2	176.3	163.8	12.43	14.181	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,500.0	2,484.1	2,510.9	2,494.7	7.6	7.7	104.51	-60.9	196.3	177.0	164.4	12.54	14.115		
2,565.0	2,547.2	2,575.9	2,557.8	7.9	7.9	104.41	-52.3	209.4	178.6	165.8	12.78	13.970		
2,600.0	2,581.2	2,610.8	2,591.7	8.0	8.0	104.36	-47.6	216.5	179.4	166.5	12.91	13.893		
2,660.0	2,639.4	2,670.8	2,649.9	8.2	8.3	104.26	-39.7	228.6	180.9	167.7	13.14	13.761		
2,700.0	2,678.2	2,710.8	2,688.7	8.4	8.4	104.20	-34.3	236.7	181.8	168.5	13.30	13.676		
2,755.0	2,731.6	2,765.8	2,742.1	8.6	8.6	104.12	-27.0	247.8	183.2	169.7	13.51	13.557		
2,800.0	2,775.2	2,810.8	2,785.7	8.8	8.8	104.05	-21.0	256.9	184.3	170.6	13.69	13.463		
2,850.0	2,823.7	2,860.8	2,834.2	9.0	9.0	103.98	-14.4	267.0	185.5	171.6	13.89	13.357		
2,900.0	2,872.3	2,910.8	2,882.7	9.2	9.2	103.91	-7.8	277.1	186.7	172.6	14.09	13.255		
2,945.0	2,915.9	2,955.7	2,926.4	9.3	9.4	103.85	-1.8	286.2	187.8	173.5	14.27	13.163		
3,000.0	2,969.3	3,010.7	2,979.7	9.6	9.6	103.77	5.5	297.3	189.1	174.6	14.49	13.053		
3,040.0	3,008.1	3,050.7	3,018.5	9.7	9.8	103.71	10.8	305.4	190.1	175.5	14.65	12.974		
3,100.0	3,066.3	3,110.7	3,076.7	10.0	10.0	103.63	18.8	317.5	191.6	176.7	14.90	12.858		
3,135.0	3,100.3	3,145.7	3,110.7	10.1	10.1	103.58	23.5	324.6	192.4	177.4	15.04	12.790		
3,200.0	3,163.3	3,210.7	3,173.7	10.4	10.4	103.50	32.1	337.7	194.0	178.7	15.31	12.668		
3,230.0	3,192.5	3,240.7	3,202.8	10.5	10.5	103.46	36.1	343.8	194.7	179.3	15.44	12.612		
3,300.0	3,260.4	3,310.6	3,270.7	10.8	10.8	103.36	45.4	357.9	196.4	180.7	15.73	12.485		
3,325.0	3,284.6	3,335.6	3,295.0	10.9	11.0	103.33	48.7	363.0	197.0	181.2	15.84	12.440		
3,400.0	3,357.4	3,410.6	3,367.7	11.2	11.3	103.24	58.7	378.1	198.9	182.7	16.16	12.309		
3,420.0	3,376.8	3,430.6	3,387.1	11.3	11.4	103.21	61.3	382.1	199.4	183.1	16.24	12.274		
3,500.0	3,454.4	3,510.6	3,464.7	11.7	11.7	103.11	72.0	398.3	201.3	184.7	16.58	12.138		
3,515.0	3,469.0	3,525.6	3,479.3	11.7	11.8	103.09	74.0	401.3	201.7	185.0	16.65	12.113		
3,600.0	3,551.5	3,610.5	3,561.7	12.1	12.2	102.99	85.3	418.5	203.7	186.7	17.02	11.974		
3,610.0	3,561.2	3,620.5	3,571.4	12.2	12.2	102.98	86.6	420.5	204.0	186.9	17.06	11.958		
3,700.0	3,648.5	3,710.5	3,658.7	12.6	12.6	102.87	98.5	438.7	206.2	188.7	17.45	11.816		
3,705.0	3,653.3	3,715.5	3,663.6	12.6	12.6	102.87	99.2	439.7	206.3	188.8	17.47	11.808		
3,800.0	3,745.5	3,810.5	3,755.7	13.0	13.0	102.75	111.8	458.9	208.6	190.7	17.89	11.663		
3,895.0	3,837.7	3,905.5	3,847.9	13.4	13.5	102.65	124.5	478.1	210.9	192.6	18.31	11.524		
3,900.0	3,842.6	3,910.4	3,852.7	13.5	13.5	102.64	125.1	479.1	211.1	192.7	18.33	11.516		
3,990.0	3,929.9	4,000.4	3,940.0	13.9	13.9	102.54	137.1	497.3	213.3	194.5	18.73	11.389		
4,000.0	3,939.6	4,010.4	3,949.7	13.9	13.9	102.53	138.4	499.3	213.5	194.7	18.76	11.379		
4,085.0	4,022.1	4,094.7	4,031.7	14.3	14.3	102.70	149.1	515.5	215.7	196.6	19.14	11.272		
4,100.0	4,036.6	4,109.6	4,046.3	14.4	14.4	102.80	150.8	518.2	216.1	196.9	19.21	11.251		
4,180.0	4,114.2	4,188.7	4,123.8	14.7	14.8	103.65	159.4	531.2	218.6	198.9	19.63	11.132		
4,200.0	4,133.6	4,208.4	4,143.2	14.8	14.9	103.94	161.4	534.2	219.2	199.5	19.75	11.101		
4,275.0	4,206.4	4,282.3	4,216.1	15.2	15.2	105.34	168.1	544.4	222.0	201.7	20.21	10.980		
4,300.0	4,230.7	4,306.8	4,240.4	15.3	15.3	105.91	170.0	547.4	223.0	202.6	20.38	10.938		
4,370.0	4,298.6	4,375.3	4,308.3	15.6	15.6	107.73	175.0	554.9	226.2	205.3	20.91	10.818		
4,400.0	4,327.7	4,404.6	4,337.3	15.7	15.7	108.62	176.8	557.7	227.7	206.6	21.16	10.765		
4,465.0	4,390.8	4,467.6	4,400.1	16.0	16.0	110.72	180.2	562.9	231.6	209.8	21.75	10.649		
4,500.0	4,424.7	4,501.4	4,433.8	16.2	16.1	111.96	181.8	565.2	233.9	211.8	22.10	10.587		
4,537.3	4,460.9	4,537.3	4,469.5	16.4	16.3	113.34	183.1	567.3	236.7	214.2	22.48	10.531		
4,560.0	4,483.0	4,559.1	4,491.2	16.5	16.3	114.23	183.9	568.4	238.5	215.8	22.72	10.497		
4,600.0	4,521.9	4,597.3	4,529.5	16.6	16.5	115.76	184.9	569.9	241.8	218.6	23.16	10.439		
4,655.0	4,575.7	4,649.8	4,581.9	16.9	16.6	117.80	185.8	571.4	246.4	222.7	23.77	10.367		
4,700.0	4,619.8	4,692.6	4,624.8	17.1	16.8	119.41	186.2	572.0	250.4	226.1	24.28	10.313		
4,750.0	4,669.0	4,740.9	4,673.0	17.4	16.8	121.15	186.3	572.1	254.9	230.1	24.80	10.276		
4,800.0	4,718.4	4,790.3	4,722.4	17.6	16.8	122.73	186.3	572.1	259.2	233.9	25.31	10.239		
4,845.0	4,762.9	4,834.8	4,766.9	17.8	16.9	123.97	186.3	572.1	262.8	237.0	25.73	10.211		
4,900.0	4,817.5	4,889.3	4,821.5	18.0	16.9	125.27	186.3	572.1	266.8	240.5	26.21	10.176		
4,940.0	4,857.2	4,929.1	4,861.2	18.2	16.9	126.08	186.3	572.1	269.3	242.8	26.53	10.154		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference Offset				Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,000.0	4,916.9	4,988.8	4,920.9	18.4	16.9	127.08	186.3	572.1	272.7	245.7	26.95	10.117		
5,035.0	4,951.8	5,023.7	4,955.8	18.6	17.0	127.55	186.3	572.1	274.3	247.1	27.17	10.097		
5,100.0	5,016.7	5,088.6	5,020.7	18.8	17.0	128.22	186.3	572.1	276.7	249.2	27.53	10.052		
5,130.0	5,046.7	5,118.6	5,050.7	18.9	17.0	128.44	186.3	572.1	277.5	249.8	27.66	10.032		
5,200.0	5,116.7	5,188.6	5,120.7	19.1	17.0	128.74	186.3	572.1	278.6	250.7	27.92	9.977		
5,225.0	5,141.7	5,213.6	5,145.7	19.2	17.0	128.78	186.3	572.1	278.7	250.7	27.97	9.965		
5,237.3	5,154.0	5,225.9	5,158.0	19.2	17.1	179.58	186.3	572.1	278.7	250.7	27.99	9.959		
5,300.0	5,216.7	5,288.6	5,220.7	19.2	17.1	179.58	186.3	572.1	278.7	250.7	28.06	9.934		
5,320.0	5,236.7	5,308.6	5,240.7	19.2	17.1	179.58	186.3	572.1	278.7	250.7	28.08	9.925		
5,400.0	5,316.7	5,388.6	5,320.7	19.3	17.1	179.58	186.3	572.1	278.7	250.5	28.19	9.888		
5,415.0	5,331.7	5,403.6	5,335.7	19.3	17.1	179.58	186.3	572.1	278.7	250.5	28.21	9.881		
5,500.0	5,416.7	5,488.6	5,420.7	19.3	17.2	179.58	186.3	572.1	278.7	250.4	28.32	9.841		
5,510.0	5,426.7	5,498.6	5,430.7	19.3	17.2	179.58	186.3	572.1	278.7	250.4	28.34	9.837		
5,600.0	5,516.7	5,588.6	5,520.7	19.3	17.2	179.58	186.3	572.1	278.7	250.3	28.46	9.795		
5,605.0	5,521.7	5,593.6	5,525.7	19.3	17.2	179.58	186.3	572.1	278.7	250.3	28.46	9.793		
5,700.0	5,616.7	5,688.6	5,620.7	19.4	17.3	179.58	186.3	572.1	278.7	250.1	28.59	9.750		
5,795.0	5,711.7	5,783.6	5,715.7	19.4	17.3	179.58	186.3	572.1	278.7	250.0	28.72	9.706		
5,800.0	5,716.7	5,788.6	5,720.7	19.4	17.3	179.58	186.3	572.1	278.7	250.0	28.72	9.704		
5,890.0	5,806.7	5,878.6	5,810.7	19.5	17.4	179.58	186.3	572.1	278.7	249.9	28.84	9.664		
5,900.0	5,816.7	5,888.6	5,820.7	19.5	17.4	179.58	186.3	572.1	278.7	249.9	28.86	9.659		
5,985.0	5,901.7	5,973.6	5,905.7	19.5	17.4	179.58	186.3	572.1	278.7	249.8	28.97	9.621		
6,000.0	5,916.7	5,988.6	5,920.7	19.5	17.5	179.58	186.3	572.1	278.7	249.7	28.99	9.614		
6,080.0	5,996.7	6,068.6	6,000.7	19.6	17.5	179.58	186.3	572.1	278.7	249.6	29.10	9.579		
6,100.0	6,016.7	6,088.6	6,020.7	19.6	17.5	179.58	186.3	572.1	278.7	249.6	29.13	9.570		
6,175.0	6,091.7	6,163.6	6,095.7	19.6	17.5	179.58	186.3	572.1	278.7	249.5	29.23	9.537		
6,200.0	6,116.7	6,188.6	6,120.7	19.6	17.6	179.58	186.3	572.1	278.7	249.5	29.26	9.526		
6,270.0	6,186.7	6,258.6	6,190.7	19.7	17.6	179.58	186.3	572.1	278.7	249.4	29.36	9.495		
6,300.0	6,216.7	6,288.6	6,220.7	19.7	17.6	179.58	186.3	572.1	278.7	249.3	29.40	9.482		
6,365.0	6,281.7	6,353.6	6,285.7	19.7	17.6	179.58	186.3	572.1	278.7	249.3	29.48	9.454		
6,400.0	6,316.7	6,388.6	6,320.7	19.7	17.7	179.58	186.3	572.1	278.7	249.2	29.53	9.439		
6,460.0	6,376.7	6,448.6	6,380.7	19.8	17.7	179.58	186.3	572.1	278.7	249.1	29.61	9.413		
6,500.0	6,416.7	6,488.6	6,420.7	19.8	17.7	179.58	186.3	572.1	278.7	249.1	29.67	9.395		
6,555.0	6,471.7	6,543.6	6,475.7	19.8	17.8	179.58	186.3	572.1	278.7	249.0	29.74	9.372		
6,600.0	6,516.7	6,588.6	6,520.7	19.8	17.8	179.58	186.3	572.1	278.7	248.9	29.80	9.352		
6,650.0	6,566.7	6,638.6	6,570.7	19.9	17.8	179.58	186.3	572.1	278.7	248.9	29.87	9.331		
6,700.0	6,616.7	6,688.6	6,620.7	19.9	17.8	179.58	186.3	572.1	278.7	248.8	29.94	9.310		
6,745.0	6,661.7	6,733.6	6,665.7	19.9	17.9	179.58	186.3	572.1	278.7	248.7	30.00	9.291		
6,800.0	6,716.7	6,788.6	6,720.7	19.9	17.9	179.58	186.3	572.1	278.7	248.7	30.08	9.268		
6,840.0	6,756.7	6,828.6	6,760.7	19.9	17.9	179.58	186.3	572.1	278.7	248.6	30.13	9.251		
6,900.0	6,816.7	6,888.6	6,820.7	20.0	17.9	179.58	186.3	572.1	278.7	248.5	30.21	9.226		
6,935.0	6,851.7	6,923.6	6,855.7	20.0	18.0	179.58	186.3	572.1	278.7	248.5	30.26	9.211		
7,000.0	6,916.7	6,988.6	6,920.7	20.0	18.0	179.58	186.3	572.1	278.7	248.4	30.35	9.184		
7,030.0	6,946.7	7,018.6	6,950.7	20.0	18.0	179.58	186.3	572.1	278.7	248.3	30.39	9.172		
7,100.0	7,016.7	7,088.6	7,020.7	20.1	18.1	179.58	186.3	572.1	278.7	248.2	30.49	9.143		
7,125.0	7,041.7	7,113.6	7,045.7	20.1	18.1	179.58	186.3	572.1	278.7	248.2	30.52	9.132		
7,200.0	7,116.7	7,188.6	7,120.7	20.1	18.1	179.58	186.3	572.1	278.7	248.1	30.62	9.102		
7,220.0	7,136.7	7,208.6	7,140.7	20.1	18.1	179.58	186.3	572.1	278.7	248.1	30.65	9.094		
7,300.0	7,216.7	7,288.6	7,220.7	20.2	18.2	179.58	186.3	572.1	278.7	248.0	30.76	9.061		
7,315.0	7,231.7	7,303.6	7,235.7	20.2	18.2	179.58	186.3	572.1	278.7	248.0	30.78	9.055		
7,400.0	7,316.7	7,388.6	7,320.7	20.2	18.2	179.58	186.3	572.1	278.7	247.8	30.90	9.020		
7,410.0	7,326.7	7,398.6	7,330.7	20.2	18.2	179.58	186.3	572.1	278.7	247.8	30.91	9.016		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,500.0	7,416.7	7,488.6	7,420.7	20.3	18.3	179.58	186.3	572.1	278.7	247.7	31.04	8.980		
7,505.0	7,421.7	7,493.6	7,425.7	20.3	18.3	179.58	186.3	572.1	278.7	247.7	31.05	8.978		
7,600.0	7,516.7	7,588.6	7,520.7	20.3	18.3	179.58	186.3	572.1	278.7	247.6	31.18	8.940		
7,695.0	7,611.7	7,683.6	7,615.7	20.4	18.4	179.58	186.3	572.1	278.7	247.4	31.31	8.903		
7,700.0	7,616.7	7,688.6	7,620.7	20.4	18.4	179.58	186.3	572.1	278.7	247.4	31.32	8.901		
7,790.0	7,706.7	7,778.6	7,710.7	20.4	18.4	179.58	186.3	572.1	278.7	247.3	31.44	8.865		
7,800.0	7,716.7	7,788.6	7,720.7	20.4	18.4	179.58	186.3	572.1	278.7	247.3	31.45	8.862		
7,885.0	7,801.7	7,873.6	7,805.7	20.5	18.5	179.58	186.3	572.1	278.7	247.2	31.57	8.828		
7,900.0	7,816.7	7,888.6	7,820.7	20.5	18.5	179.58	186.3	572.1	278.7	247.1	31.59	8.822		
7,980.0	7,896.7	7,968.6	7,900.7	20.5	18.5	179.58	186.3	572.1	278.7	247.0	31.71	8.791		
8,000.0	7,916.7	7,988.6	7,920.7	20.5	18.6	179.58	186.3	572.1	278.7	247.0	31.73	8.784		
8,075.0	7,991.7	8,063.6	7,995.7	20.6	18.6	179.58	186.3	572.1	278.7	246.9	31.84	8.755		
8,100.0	8,016.7	8,088.6	8,020.7	20.6	18.6	179.58	186.3	572.1	278.7	246.9	31.87	8.745		
8,170.0	8,086.7	8,158.6	8,090.7	20.6	18.7	179.58	186.3	572.1	278.7	246.8	31.97	8.718		
8,200.0	8,116.7	8,188.6	8,120.7	20.6	18.7	179.58	186.3	572.1	278.7	246.7	32.01	8.707		
8,265.0	8,181.7	8,253.6	8,185.7	20.7	18.7	179.58	186.3	572.1	278.7	246.6	32.10	8.682		
8,300.0	8,216.7	8,288.6	8,220.7	20.7	18.7	179.58	186.3	572.1	278.7	246.6	32.15	8.669		
8,360.0	8,276.7	8,348.6	8,280.7	20.7	18.8	179.58	186.3	572.1	278.7	246.5	32.24	8.647		
8,400.0	8,316.7	8,388.6	8,320.7	20.7	18.8	179.58	186.3	572.1	278.7	246.4	32.29	8.632		
8,455.0	8,371.7	8,443.6	8,375.7	20.8	18.8	179.58	186.3	572.1	278.7	246.4	32.36	8.613		
8,461.6	8,378.2	8,450.1	8,382.2	20.8	18.8	179.58	186.3	572.1	278.7	246.4	32.37	8.611		
8,500.0	8,416.7	8,485.9	8,418.0	20.8	18.8	179.58	186.3	572.1	278.7	246.4	32.37	8.610		
8,550.0	8,466.7	8,521.3	8,453.4	20.8	18.8	179.56	185.2	572.2	280.4	248.1	32.23	8.700		
8,600.0	8,516.7	8,550.0	8,482.0	20.8	18.9	179.52	182.7	572.4	284.9	253.0	31.98	8.911		
8,645.0	8,561.7	8,584.4	8,516.0	20.9	18.9	179.44	177.9	572.9	291.4	259.5	31.90	9.136		
8,700.0	8,616.7	8,619.9	8,550.8	20.9	18.9	179.33	170.8	573.5	302.5	270.8	31.70	9.540		
8,740.0	8,656.7	8,650.0	8,579.9	20.9	18.9	179.21	163.1	574.2	312.6	281.0	31.64	9.879		
8,800.0	8,716.7	8,681.7	8,610.1	21.0	18.9	179.08	153.3	575.1	330.8	299.4	31.40	10.536		
8,835.0	8,751.7	8,700.0	8,627.2	21.0	18.9	178.99	146.9	575.6	343.1	311.8	31.28	10.970		
8,900.0	8,816.7	8,739.2	8,663.1	21.0	18.9	178.80	131.5	577.0	369.0	337.8	31.18	11.833		
8,930.0	8,846.7	8,750.0	8,672.9	21.0	19.0	178.74	126.8	577.5	382.2	351.1	31.08	12.296		
9,000.0	8,916.7	8,800.0	8,716.6	21.1	19.0	178.49	102.7	579.6	416.0	384.8	31.15	13.353		
9,025.0	8,941.7	8,800.0	8,716.6	21.1	19.0	178.49	102.7	579.6	428.8	397.7	31.05	13.811		
9,100.0	9,016.7	8,850.0	8,758.1	21.1	19.0	178.23	74.9	582.1	470.4	439.2	31.17	15.093		
9,120.0	9,036.7	8,850.0	8,758.1	21.1	19.0	178.23	74.9	582.1	481.8	450.7	31.13	15.480		
9,200.0	9,116.7	8,881.5	8,782.9	21.2	19.0	178.07	55.6	583.9	530.9	499.7	31.22	17.006		
9,215.0	9,131.7	8,887.4	8,787.5	21.2	19.0	178.04	51.8	584.2	540.5	509.3	31.25	17.299		
9,300.0	9,216.7	8,919.3	8,811.2	21.2	19.1	177.88	30.7	586.1	597.1	565.7	31.42	19.001		
9,310.0	9,226.7	8,922.8	8,813.8	21.2	19.1	177.86	28.3	586.3	604.0	572.5	31.45	19.207		
9,316.4	9,233.0	8,925.0	8,815.4	21.2	19.1	177.85	26.8	586.5	608.4	576.9	31.46	19.338		
9,350.0	9,266.7	8,936.9	8,823.9	21.2	19.1	3.08	18.5	587.2	631.2	599.9	31.31	20.159		
9,400.0	9,316.4	8,950.0	8,833.0	21.3	19.1	2.82	9.1	588.1	663.5	632.0	31.46	21.086		
9,405.0	9,321.3	8,950.0	8,833.0	21.3	19.1	2.80	9.1	588.1	666.6	635.1	31.48	21.176		
9,450.0	9,365.5	8,973.1	8,848.6	21.3	19.1	2.58	-7.9	589.6	693.5	661.8	31.65	21.911		
9,500.0	9,413.5	9,000.0	8,865.9	21.3	19.1	2.38	-28.4	591.4	721.3	689.5	31.85	22.649		
9,550.0	9,460.3	9,000.0	8,865.9	21.3	19.1	2.26	-28.4	591.4	746.9	714.8	32.05	23.305		
9,595.0	9,500.8	9,027.8	8,882.6	21.4	19.2	2.14	-50.4	593.4	767.6	735.4	32.26	23.798		
9,600.0	9,505.2	9,029.7	8,883.8	21.4	19.2	2.13	-51.9	593.6	769.8	737.6	32.28	23.850		
9,650.0	9,548.1	9,050.0	8,895.3	21.4	19.2	2.03	-68.6	595.1	790.5	758.0	32.52	24.310		
9,690.0	9,580.8	9,050.0	8,895.3	21.4	19.2	1.97	-68.6	595.1	805.7	772.9	32.73	24.617		
9,700.0	9,588.6	9,068.4	8,905.2	21.4	19.2	1.95	-84.0	596.5	808.8	776.0	32.77	24.677		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Minimum Separation	Separation Factor	Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
9,750.0	9,626.4	9,100.0	8,921.1	21.5	19.2	1.88	-111.2	598.9	824.8	791.7	33.04	24.965
9,785.0	9,651.1	9,100.0	8,921.1	21.5	19.2	1.85	-111.2	598.9	834.1	800.8	33.24	25.095
9,800.0	9,661.3	9,100.0	8,921.1	21.5	19.2	1.84	-111.2	598.9	837.8	804.5	33.32	25.142
9,850.0	9,692.8	9,127.4	8,933.6	21.6	19.3	1.80	-135.5	601.1	848.4	814.8	33.61	25.245
9,880.0	9,710.1	9,150.0	8,943.1	21.6	19.3	1.78	-156.0	602.9	853.7	819.9	33.77	25.277
9,900.0	9,720.9	9,150.0	8,943.1	21.6	19.3	1.77	-156.0	602.9	856.5	822.6	33.90	25.265
9,950.0	9,745.2	9,167.1	8,949.7	21.6	19.3	1.76	-171.7	604.4	861.9	827.7	34.20	25.199
9,975.0	9,755.9	9,177.1	8,953.3	21.7	19.3	1.75	-180.9	605.2	863.7	829.3	34.36	25.137
10,000.0	9,765.6	9,200.0	8,961.1	21.7	19.3	1.75	-202.4	607.1	865.0	830.5	34.50	25.074
10,050.0	9,782.0	9,200.0	8,961.1	21.7	19.3	1.75	-202.4	607.1	865.0	830.2	34.83	24.836
10,070.0	9,787.4	9,200.0	8,961.1	21.8	19.3	1.76	-202.4	607.1	864.6	829.7	34.96	24.729
10,100.0	9,794.2	9,226.9	8,969.1	21.8	19.4	1.77	-227.9	609.4	862.6	827.4	35.14	24.549
10,150.0	9,802.2	9,250.0	8,975.0	21.8	19.4	1.80	-250.2	611.4	857.6	822.1	35.45	24.193
10,165.0	9,803.7	9,250.0	8,975.0	21.9	19.4	1.81	-250.2	611.4	855.5	820.0	35.55	24.068
10,200.0	9,805.8	9,266.6	8,978.6	21.9	19.4	1.84	-266.3	612.9	849.9	814.1	35.76	23.765
10,216.1	9,806.0	9,273.0	8,979.9	21.9	19.4	1.85	-272.6	613.5	846.9	811.0	35.85	23.624
10,260.0	9,806.0	9,300.0	8,984.6	22.0	19.5	1.69	-299.1	615.8	839.1	803.0	36.07	23.262
10,300.0	9,806.0	9,300.0	8,984.6	22.0	19.5	1.57	-299.1	615.8	833.0	796.6	36.30	22.944
10,355.0	9,806.1	9,328.8	8,988.2	22.1	19.5	1.38	-327.6	618.4	826.3	789.7	36.61	22.568
10,400.0	9,806.1	9,350.0	8,989.9	22.2	19.5	1.23	-348.6	620.3	822.5	785.7	36.88	22.306
10,450.0	9,806.1	9,367.7	8,990.7	22.2	19.5	1.09	-366.2	621.9	820.0	782.8	37.17	22.058
10,500.0	9,806.1	9,391.7	8,991.0	22.3	19.6	0.93	-390.1	624.0	819.2	781.8	37.46	21.868
10,512.3	9,806.1	9,403.9	8,991.0	22.3	19.6	0.85	-402.3	625.1	819.2	781.7	37.52	21.832
10,545.0	9,806.1	9,436.4	8,991.0	22.4	19.7	0.66	-434.6	627.6	819.2	781.5	37.70	21.730
10,600.0	9,806.1	9,491.1	8,991.0	22.5	19.7	0.39	-489.2	631.0	819.1	781.1	37.98	21.565
10,640.0	9,806.2	9,531.0	8,991.1	22.6	19.8	0.24	-529.1	632.9	819.1	780.9	38.21	21.438
10,700.0	9,806.2	9,590.9	8,991.1	22.7	19.9	0.08	-589.0	634.6	819.1	780.5	38.55	21.250
10,735.0	9,806.2	9,625.9	8,991.1	22.7	20.0	0.03	-623.9	635.0	819.1	780.3	38.75	21.137
10,800.0	9,806.2	9,690.9	8,991.1	22.8	20.1	0.01	-688.9	634.8	819.1	779.9	39.14	20.930
10,830.0	9,806.2	9,720.9	8,991.2	22.9	20.2	0.01	-718.9	634.5	819.1	779.8	39.33	20.827
10,900.0	9,806.3	9,790.9	8,991.2	23.0	20.3	0.01	-788.9	633.9	819.1	779.3	39.78	20.589
10,925.0	9,806.3	9,815.9	8,991.2	23.1	20.4	0.01	-813.9	633.7	819.1	779.1	39.95	20.501
11,000.0	9,806.3	9,890.9	8,991.2	23.3	20.5	0.01	-888.9	633.1	819.1	778.6	40.48	20.235
11,020.0	9,806.3	9,910.9	8,991.2	23.3	20.6	0.01	-908.9	633.0	819.1	778.4	40.63	20.161
11,100.0	9,806.3	9,990.9	8,991.3	23.5	20.8	0.01	-988.9	632.3	819.1	777.8	41.22	19.869
11,115.0	9,806.4	10,005.9	8,991.3	23.6	20.8	0.01	-1,003.9	632.2	819.1	777.7	41.34	19.812
11,200.0	9,806.4	10,090.9	8,991.3	23.8	21.0	0.01	-1,088.9	631.5	819.1	777.0	42.02	19.494
11,210.0	9,806.4	10,100.9	8,991.3	23.8	21.1	0.01	-1,098.9	631.4	819.1	777.0	42.10	19.456
11,300.0	9,806.4	10,190.9	8,991.4	24.1	21.3	0.01	-1,188.9	630.6	819.0	776.2	42.85	19.114
11,305.0	9,806.4	10,195.9	8,991.4	24.1	21.3	0.01	-1,193.9	630.6	819.0	776.2	42.89	19.095
11,400.0	9,806.5	10,290.9	8,991.4	24.3	21.6	0.01	-1,288.9	629.8	819.0	775.3	43.72	18.732
11,495.0	9,806.5	10,385.9	8,991.5	24.7	21.9	0.01	-1,383.9	629.0	819.0	774.4	44.59	18.367
11,500.0	9,806.5	10,390.9	8,991.5	24.7	22.0	0.01	-1,388.9	629.0	819.0	774.4	44.64	18.348
11,590.0	9,806.5	10,480.9	8,991.5	25.0	22.3	0.01	-1,478.9	628.3	819.0	773.5	45.49	18.003
11,600.0	9,806.5	10,490.9	8,991.5	25.0	22.3	0.01	-1,488.9	628.2	819.0	773.4	45.59	17.966
11,685.0	9,806.6	10,575.9	8,991.6	25.3	22.6	0.01	-1,573.9	627.5	819.0	772.6	46.42	17.642
11,700.0	9,806.6	10,590.9	8,991.6	25.4	22.7	0.01	-1,588.9	627.3	819.0	772.4	46.57	17.586
11,780.0	9,806.6	10,670.9	8,991.6	25.7	23.0	0.01	-1,668.9	626.7	819.0	771.6	47.38	17.285
11,800.0	9,806.6	10,690.9	8,991.6	25.7	23.1	0.01	-1,688.9	626.5	819.0	771.4	47.59	17.211
11,875.0	9,806.6	10,765.9	8,991.6	26.0	23.4	0.01	-1,763.9	625.9	819.0	770.6	48.37	16.933
11,900.0	9,806.7	10,790.9	8,991.7	26.1	23.5	0.01	-1,788.9	625.7	819.0	770.4	48.63	16.841

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
11,970.0	9,806.7	10,860.9	8,991.7	26.4	23.8	0.01	-1,858.9	625.1	819.0	769.6	49.38	16.586		
12,000.0	9,806.7	10,890.9	8,991.7	26.5	23.9	0.01	-1,888.9	624.9	819.0	769.3	49.70	16.478		
12,065.0	9,806.7	10,955.9	8,991.7	26.8	24.2	0.01	-1,953.9	624.3	819.0	768.6	50.42	16.245		
12,100.0	9,806.7	10,990.9	8,991.7	27.0	24.4	0.01	-1,988.9	624.0	819.0	768.2	50.80	16.122		
12,160.0	9,806.8	11,050.9	8,991.8	27.2	24.6	0.01	-2,048.9	623.6	819.0	767.5	51.47	15.911		
12,200.0	9,806.8	11,090.9	8,991.8	27.4	24.8	0.01	-2,088.9	623.2	819.0	767.1	51.92	15.773		
12,255.0	9,806.8	11,145.9	8,991.8	27.7	25.1	0.01	-2,143.9	622.8	819.0	766.4	52.55	15.584		
12,300.0	9,806.8	11,190.9	8,991.8	27.9	25.3	0.01	-2,188.9	622.4	819.0	765.9	53.07	15.433		
12,350.0	9,806.8	11,240.9	8,991.9	28.1	25.6	0.01	-2,238.9	622.0	819.0	765.3	53.65	15.265		
12,400.0	9,806.9	11,290.9	8,991.9	28.3	25.8	0.01	-2,288.9	621.6	819.0	764.7	54.23	15.100		
12,445.0	9,806.9	11,335.9	8,991.9	28.6	26.0	0.01	-2,333.9	621.2	819.0	764.2	54.77	14.953		
12,500.0	9,806.9	11,390.9	8,991.9	28.8	26.3	0.01	-2,388.9	620.7	819.0	763.5	55.42	14.777		
12,540.0	9,806.9	11,430.9	8,992.0	29.0	26.5	0.01	-2,428.9	620.4	819.0	763.1	55.90	14.650		
12,600.0	9,806.9	11,490.9	8,992.0	29.3	26.8	0.01	-2,488.9	619.9	819.0	762.3	56.63	14.462		
12,635.0	9,806.9	11,525.9	8,992.0	29.5	27.0	0.01	-2,523.9	619.6	818.9	761.9	57.05	14.354		
12,700.0	9,807.0	11,590.9	8,992.0	29.9	27.4	0.01	-2,588.9	619.1	818.9	761.1	57.85	14.157		
12,730.0	9,807.0	11,620.9	8,992.0	30.0	27.5	0.01	-2,618.9	618.8	818.9	760.7	58.22	14.066		
12,800.0	9,807.0	11,690.9	8,992.1	30.4	27.9	0.01	-2,688.9	618.3	818.9	759.8	59.09	13.860		
12,825.0	9,807.0	11,715.9	8,992.1	30.5	28.1	0.01	-2,713.9	618.1	818.9	759.5	59.40	13.787		
12,900.0	9,807.1	11,790.9	8,992.1	30.9	28.5	0.01	-2,788.9	617.4	818.9	758.6	60.34	13.571		
12,920.0	9,807.1	11,810.9	8,992.1	31.0	28.6	0.01	-2,808.9	617.3	818.9	758.3	60.60	13.515		
13,000.0	9,807.1	11,890.9	8,992.2	31.5	29.1	0.01	-2,888.9	616.6	818.9	757.3	61.61	13.292		
13,015.0	9,807.1	11,905.9	8,992.2	31.6	29.1	0.01	-2,903.9	616.5	818.9	757.1	61.80	13.250		
13,100.0	9,807.1	11,990.9	8,992.2	32.0	29.6	0.01	-2,988.9	615.8	818.9	756.0	62.89	13.021		
13,110.0	9,807.1	12,000.9	8,992.2	32.1	29.7	0.01	-2,998.9	615.7	818.9	755.9	63.02	12.994		
13,200.0	9,807.2	12,090.9	8,992.3	32.6	30.2	0.01	-3,088.9	615.0	818.9	754.7	64.19	12.758		
13,205.0	9,807.2	12,095.9	8,992.3	32.6	30.3	0.01	-3,093.9	614.9	818.9	754.7	64.25	12.745		
13,300.0	9,807.2	12,190.9	8,992.3	33.2	30.8	0.01	-3,188.8	614.1	818.9	753.4	65.50	12.503		
13,395.0	9,807.2	12,285.9	8,992.4	33.8	31.4	0.01	-3,283.8	613.4	818.9	752.1	66.75	12.268		
13,400.0	9,807.2	12,290.9	8,992.4	33.8	31.4	0.01	-3,288.8	613.3	818.9	752.1	66.82	12.256		
13,490.0	9,807.3	12,380.9	8,992.4	34.3	32.0	0.01	-3,378.8	612.6	818.9	750.9	68.01	12.040		
13,500.0	9,807.3	12,390.9	8,992.4	34.4	32.0	0.01	-3,388.8	612.5	818.9	750.7	68.14	12.017		
13,585.0	9,807.3	12,475.9	8,992.4	34.9	32.6	0.01	-3,473.8	611.8	818.9	749.6	69.28	11.819		
13,600.0	9,807.3	12,490.9	8,992.4	35.0	32.7	0.01	-3,488.8	611.7	818.9	749.4	69.48	11.785		
13,680.0	9,807.4	12,570.9	8,992.5	35.5	33.2	0.01	-3,568.8	611.0	818.9	748.3	70.56	11.605		
13,700.0	9,807.4	12,590.9	8,992.5	35.6	33.3	0.01	-3,588.8	610.8	818.9	748.0	70.83	11.561		
13,775.0	9,807.4	12,665.9	8,992.5	36.1	33.8	0.01	-3,663.8	610.2	818.9	747.0	71.85	11.397		
13,800.0	9,807.4	12,690.9	8,992.5	36.2	33.9	0.01	-3,688.8	610.0	818.9	746.7	72.19	11.343		
13,870.0	9,807.4	12,760.9	8,992.6	36.7	34.4	0.01	-3,758.8	609.4	818.9	745.7	73.15	11.195		
13,900.0	9,807.4	12,790.9	8,992.6	36.9	34.6	0.01	-3,788.8	609.2	818.9	745.3	73.56	11.132		
13,965.0	9,807.5	12,855.9	8,992.6	37.3	35.0	0.01	-3,853.8	608.7	818.9	744.4	74.45	10.999		
14,000.0	9,807.5	12,890.9	8,992.6	37.5	35.2	0.01	-3,888.8	608.4	818.8	743.9	74.93	10.928		
14,060.0	9,807.5	12,950.9	8,992.7	37.9	35.6	0.01	-3,948.8	607.9	818.8	743.1	75.76	10.809		
14,100.0	9,807.5	12,990.9	8,992.7	38.1	35.9	0.01	-3,988.8	607.5	818.8	742.5	76.31	10.730		
14,155.0	9,807.5	13,045.9	8,992.7	38.5	36.2	0.01	-4,043.8	607.1	818.8	741.8	77.08	10.624		
14,200.0	9,807.6	13,090.9	8,992.7	38.8	36.5	0.01	-4,088.8	606.7	818.8	741.1	77.70	10.538		
14,250.0	9,807.6	13,140.9	8,992.8	39.1	36.8	0.01	-4,138.8	606.3	818.8	740.4	78.40	10.444		
14,300.0	9,807.6	13,190.9	8,992.8	39.4	37.2	0.01	-4,188.8	605.9	818.8	739.7	79.10	10.352		
14,345.0	9,807.6	13,235.9	8,992.8	39.7	37.5	0.01	-4,233.8	605.5	818.8	739.1	79.73	10.270		
14,400.0	9,807.6	13,290.9	8,992.8	40.1	37.8	0.01	-4,288.8	605.1	818.8	738.3	80.50	10.172		
14,440.0	9,807.7	13,330.9	8,992.8	40.3	38.1	0.01	-4,328.8	604.7	818.8	737.8	81.06	10.101		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
14,500.0	9,807.7	13,390.9	8,992.9	40.7	38.5	0.01	-4,388.8	604.2	818.8	736.9	81.91	9.997
14,535.0	9,807.7	13,425.9	8,992.9	41.0	38.7	0.01	-4,423.8	603.9	818.8	736.4	82.40	9.937
14,600.0	9,807.7	13,490.9	8,992.9	41.4	39.2	0.01	-4,488.8	603.4	818.8	735.5	83.32	9.827
14,630.0	9,807.7	13,520.9	8,992.9	41.6	39.4	0.01	-4,518.8	603.2	818.8	735.1	83.75	9.777
14,700.0	9,807.8	13,590.9	8,993.0	42.0	39.9	0.01	-4,588.8	602.6	818.8	734.1	84.74	9.663
14,725.0	9,807.8	13,615.9	8,993.0	42.2	40.0	0.01	-4,613.8	602.4	818.8	733.7	85.10	9.622
14,800.0	9,807.8	13,690.9	8,993.0	42.7	40.5	0.01	-4,688.8	601.8	818.8	732.6	86.16	9.503
14,820.0	9,807.8	13,710.9	8,993.0	42.8	40.7	0.01	-4,708.8	601.6	818.8	732.3	86.45	9.471
14,900.0	9,807.8	13,790.9	8,993.1	43.4	41.2	0.01	-4,788.8	600.9	818.8	731.2	87.59	9.348
14,915.0	9,807.8	13,805.9	8,993.1	43.5	41.3	0.01	-4,803.8	600.8	818.8	731.0	87.81	9.325
15,000.0	9,807.9	13,890.9	8,993.1	44.1	41.9	0.01	-4,888.8	600.1	818.8	729.7	89.03	9.197
15,010.0	9,807.9	13,900.9	8,993.1	44.1	42.0	0.01	-4,898.8	600.0	818.8	729.6	89.17	9.182
15,100.0	9,807.9	13,990.9	8,993.1	44.7	42.6	0.01	-4,988.8	599.3	818.8	728.3	90.47	9.051
15,105.0	9,807.9	13,995.9	8,993.1	44.8	42.6	0.01	-4,993.8	599.2	818.8	728.2	90.54	9.043
15,200.0	9,808.0	14,090.9	8,993.2	45.4	43.3	0.01	-5,088.8	598.5	818.8	726.9	91.91	8.908
15,295.0	9,808.0	14,185.9	8,993.2	46.1	43.9	0.01	-5,183.8	597.7	818.8	725.5	93.28	8.777
15,300.0	9,808.0	14,190.9	8,993.2	46.1	44.0	0.01	-5,188.8	597.6	818.8	725.4	93.36	8.770
15,390.0	9,808.0	14,280.9	8,993.3	46.7	44.6	0.01	-5,278.8	596.9	818.7	724.1	94.66	8.649
15,400.0	9,808.0	14,290.9	8,993.3	46.8	44.7	0.01	-5,288.8	596.8	818.7	723.9	94.81	8.636
15,485.0	9,808.1	14,375.9	8,993.3	47.4	45.3	0.01	-5,373.8	596.1	818.7	722.7	96.04	8.525
15,500.0	9,808.1	14,390.9	8,993.3	47.5	45.4	0.01	-5,388.8	596.0	818.7	722.5	96.26	8.505
15,580.0	9,808.1	14,470.9	8,993.4	48.0	45.9	0.01	-5,468.8	595.3	818.7	721.3	97.43	8.404
15,600.0	9,808.1	14,490.9	8,993.4	48.2	46.1	0.01	-5,488.8	595.2	818.7	721.0	97.72	8.378
15,675.0	9,808.1	14,565.9	8,993.4	48.7	46.6	0.01	-5,563.8	594.5	818.7	719.9	98.82	8.285
15,700.0	9,808.1	14,590.9	8,993.4	48.9	46.8	0.01	-5,588.8	594.3	818.7	719.5	99.18	8.255
15,770.0	9,808.2	14,660.9	8,993.5	49.4	47.3	0.01	-5,658.8	593.8	818.7	718.5	100.21	8.170
15,800.0	9,808.2	14,690.9	8,993.5	49.6	47.5	0.01	-5,688.8	593.5	818.7	718.1	100.65	8.135
15,865.0	9,808.2	14,755.9	8,993.5	50.0	47.9	0.01	-5,753.8	593.0	818.7	717.1	101.60	8.058
15,900.0	9,808.2	14,790.9	8,993.5	50.3	48.2	0.01	-5,788.8	592.7	818.7	716.6	102.11	8.018
15,960.0	9,808.3	14,850.9	8,993.5	50.7	48.6	0.01	-5,848.8	592.2	818.7	715.7	103.00	7.949
16,000.0	9,808.3	14,890.9	8,993.6	51.0	48.9	0.01	-5,888.8	591.9	818.7	715.1	103.58	7.904
16,055.0	9,808.3	14,945.9	8,993.6	51.4	49.3	0.01	-5,943.8	591.4	818.7	714.3	104.39	7.842
16,100.0	9,808.3	14,990.9	8,993.6	51.7	49.6	0.01	-5,988.8	591.0	818.7	713.6	105.06	7.793
16,150.0	9,808.3	15,040.9	8,993.6	52.0	49.9	0.01	-6,038.8	590.6	818.7	712.9	105.80	7.738
16,200.0	9,808.3	15,090.9	8,993.7	52.4	50.3	0.01	-6,088.7	590.2	818.7	712.2	106.53	7.685
16,245.0	9,808.4	15,135.9	8,993.7	52.7	50.6	0.01	-6,133.7	589.8	818.7	711.5	107.20	7.637
16,300.0	9,808.4	15,190.9	8,993.7	53.1	51.0	0.01	-6,188.7	589.4	818.7	710.7	108.01	7.579
16,340.0	9,808.4	15,230.9	8,993.7	53.4	51.3	0.01	-6,228.7	589.1	818.7	710.1	108.61	7.538
16,400.0	9,808.4	15,290.9	8,993.8	53.8	51.7	0.01	-6,288.7	588.6	818.7	709.2	109.49	7.477
16,435.0	9,808.4	15,325.9	8,993.8	54.0	52.0	0.01	-6,323.7	588.3	818.7	708.7	110.01	7.441
16,500.0	9,808.5	15,390.9	8,993.8	54.5	52.5	0.01	-6,388.7	587.7	818.7	707.7	110.98	7.377
16,530.0	9,808.5	15,420.9	8,993.8	54.7	52.7	0.01	-6,418.7	587.5	818.7	707.2	111.42	7.347
16,600.0	9,808.5	15,490.9	8,993.8	55.2	53.2	0.01	-6,488.7	586.9	818.7	706.2	112.47	7.279
16,625.0	9,808.5	15,515.9	8,993.9	55.4	53.3	0.01	-6,513.7	586.7	818.7	705.8	112.84	7.255
16,700.0	9,808.5	15,590.9	8,993.9	55.9	53.9	0.01	-6,588.7	586.1	818.7	704.7	113.95	7.184
16,720.0	9,808.5	15,610.9	8,993.9	56.1	54.0	0.01	-6,608.7	585.9	818.6	704.4	114.25	7.165
16,800.0	9,808.6	15,690.9	8,993.9	56.6	54.6	0.01	-6,688.7	585.3	818.6	703.2	115.44	7.091
16,815.0	9,808.6	15,705.9	8,993.9	56.7	54.7	0.01	-6,703.7	585.1	818.6	703.0	115.67	7.077
16,900.0	9,808.6	15,790.9	8,994.0	57.4	55.3	0.01	-6,788.7	584.4	818.6	701.7	116.94	7.001
16,910.0	9,808.6	15,800.9	8,994.0	57.4	55.4	0.01	-6,798.7	584.3	818.6	701.5	117.09	6.992
17,000.0	9,808.7	15,890.9	8,994.0	58.1	56.1	0.01	-6,888.7	583.6	818.6	700.2	118.43	6.912

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
17,005.0	9,808.7	15,895.9	8,994.0	58.1	56.1	0.01	-6,893.7	583.6	818.6	700.1	118.51	6.908
17,100.0	9,808.7	15,990.9	8,994.1	58.8	56.8	0.01	-6,988.7	582.8	818.6	698.7	119.93	6.826
17,195.0	9,808.7	16,085.9	8,994.1	59.5	57.5	0.01	-7,083.7	582.0	818.6	697.3	121.35	6.746
17,200.0	9,808.7	16,090.9	8,994.1	59.5	57.5	0.01	-7,088.7	582.0	818.6	697.2	121.43	6.742
17,290.0	9,808.8	16,180.9	8,994.2	60.2	58.2	0.01	-7,178.7	581.2	818.6	695.8	122.78	6.667
17,300.0	9,808.8	16,190.9	8,994.2	60.2	58.2	0.01	-7,188.7	581.1	818.6	695.7	122.93	6.659
17,385.0	9,808.8	16,275.9	8,994.2	60.8	58.8	0.01	-7,273.7	580.4	818.6	694.4	124.20	6.591
17,400.0	9,808.8	16,290.9	8,994.2	61.0	59.0	0.01	-7,288.7	580.3	818.6	694.2	124.43	6.579
17,480.0	9,808.8	16,370.9	8,994.3	61.5	59.5	0.01	-7,368.7	579.6	818.6	693.0	125.63	6.516
17,500.0	9,808.9	16,390.9	8,994.3	61.7	59.7	0.01	-7,388.7	579.5	818.6	692.7	125.93	6.500
17,575.0	9,808.9	16,465.9	8,994.3	62.2	60.2	0.01	-7,463.7	578.9	818.6	691.5	127.06	6.442
17,600.0	9,808.9	16,490.9	8,994.3	62.4	60.4	0.01	-7,488.7	578.7	818.6	691.1	127.44	6.423
17,670.0	9,808.9	16,560.9	8,994.3	62.9	60.9	0.01	-7,558.7	578.1	818.6	690.1	128.49	6.371
17,700.0	9,808.9	16,590.9	8,994.4	63.1	61.1	0.01	-7,588.7	577.8	818.6	689.6	128.94	6.348
17,765.0	9,809.0	16,655.9	8,994.4	63.6	61.6	0.01	-7,653.7	577.3	818.6	688.6	129.93	6.300
17,800.0	9,809.0	16,690.9	8,994.4	63.9	61.9	0.01	-7,688.7	577.0	818.6	688.1	130.45	6.275
17,860.0	9,809.0	16,750.9	8,994.4	64.3	62.3	0.01	-7,748.7	576.5	818.6	687.2	131.36	6.232
17,900.0	9,809.0	16,790.9	8,994.5	64.6	62.6	0.01	-7,788.7	576.2	818.6	686.6	131.96	6.203
17,955.0	9,809.0	16,845.9	8,994.5	65.0	63.0	0.01	-7,843.7	575.7	818.6	685.8	132.79	6.164
18,000.0	9,809.1	16,890.9	8,994.5	65.3	63.3	0.01	-7,888.7	575.4	818.6	685.1	133.47	6.133
18,050.0	9,809.1	16,940.9	8,994.5	65.7	63.7	0.01	-7,938.7	574.9	818.6	684.3	134.23	6.098
18,100.0	9,809.1	16,990.9	8,994.5	66.0	64.1	0.01	-7,988.7	574.5	818.5	683.6	134.99	6.064
18,145.0	9,809.1	17,035.9	8,994.6	66.4	64.4	0.01	-8,033.7	574.2	818.5	682.9	135.67	6.033
18,200.0	9,809.1	17,090.9	8,994.6	66.8	64.8	0.01	-8,088.7	573.7	818.5	682.0	136.50	5.997
18,240.0	9,809.1	17,130.9	8,994.6	67.1	65.1	0.01	-8,128.7	573.4	818.5	681.4	137.11	5.970
18,300.0	9,809.2	17,190.9	8,994.6	67.5	65.5	0.00	-8,188.7	572.9	818.5	680.5	138.01	5.931
18,335.0	9,809.2	17,225.9	8,994.7	67.8	65.8	0.00	-8,223.7	572.6	818.5	680.0	138.55	5.908
18,400.0	9,809.2	17,290.9	8,994.7	68.2	66.3	0.00	-8,288.7	572.0	818.5	679.0	139.53	5.866
18,430.0	9,809.2	17,320.9	8,994.7	68.4	66.5	0.00	-8,318.7	571.8	818.5	678.5	139.99	5.847
18,500.0	9,809.2	17,390.9	8,994.7	69.0	67.0	0.00	-8,388.7	571.2	818.5	677.5	141.05	5.803
18,525.0	9,809.3	17,415.9	8,994.7	69.1	67.2	0.00	-8,413.7	571.0	818.5	677.1	141.43	5.788
18,600.0	9,809.3	17,490.9	8,994.8	69.7	67.7	0.00	-8,488.7	570.4	818.5	675.9	142.57	5.741
18,620.0	9,809.3	17,510.9	8,994.8	69.8	67.9	0.00	-8,508.7	570.2	818.5	675.6	142.87	5.729
18,700.0	9,809.3	17,590.9	8,994.8	70.4	68.5	0.00	-8,588.7	569.6	818.5	674.4	144.09	5.681
18,715.0	9,809.3	17,605.9	8,994.8	70.5	68.6	0.00	-8,603.7	569.4	818.5	674.2	144.31	5.672
18,800.0	9,809.4	17,690.9	8,994.9	71.2	69.2	0.00	-8,688.7	568.7	818.5	672.9	145.61	5.621
18,810.0	9,809.4	17,700.9	8,994.9	71.2	69.3	0.00	-8,698.7	568.7	818.5	672.7	145.76	5.615
18,900.0	9,809.4	17,790.9	8,994.9	71.9	70.0	0.00	-8,788.7	567.9	818.5	671.4	147.13	5.563
18,905.0	9,809.4	17,795.9	8,994.9	71.9	70.0	0.00	-8,793.7	567.9	818.5	671.3	147.20	5.560
19,000.0	9,809.4	17,890.9	8,995.0	72.6	70.7	0.00	-8,888.7	567.1	818.5	669.8	148.65	5.506
19,095.0	9,809.5	17,985.9	8,995.0	73.3	71.4	0.00	-8,983.7	566.3	818.5	668.4	150.10	5.453
19,100.0	9,809.5	17,990.9	8,995.0	73.4	71.4	0.00	-8,988.7	566.3	818.5	668.3	150.17	5.450
19,190.0	9,809.5	18,080.9	8,995.1	74.0	72.1	0.00	-9,078.6	565.5	818.5	666.9	151.55	5.401
19,200.0	9,809.5	18,090.9	8,995.1	74.1	72.2	0.00	-9,088.6	565.4	818.5	666.8	151.70	5.395
19,285.0	9,809.6	18,175.9	8,995.1	74.7	72.8	0.00	-9,173.6	564.7	818.5	665.5	153.00	5.350
19,300.0	9,809.6	18,190.9	8,995.1	74.8	72.9	0.00	-9,188.6	564.6	818.5	665.2	153.22	5.342
19,380.0	9,809.6	18,270.9	8,995.1	75.4	73.5	0.00	-9,268.6	564.0	818.5	664.0	154.45	5.299
19,400.0	9,809.6	18,290.9	8,995.2	75.6	73.7	0.00	-9,288.6	563.8	818.5	663.7	154.75	5.289
19,475.0	9,809.6	18,365.9	8,995.2	76.1	74.2	0.00	-9,363.6	563.2	818.4	662.5	155.90	5.250
19,500.0	9,809.6	18,390.9	8,995.2	76.3	74.4	0.00	-9,388.6	563.0	818.4	662.2	156.28	5.237
19,570.0	9,809.7	18,460.9	8,995.2	76.8	74.9	0.00	-9,458.6	562.4	818.4	661.1	157.35	5.201

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,600.0	9,809.7	18,490.9	8,995.2	77.1	75.1	0.00	-9,488.6	562.1	818.4	660.6	157.81	5.186		
19,665.0	9,809.7	18,555.9	8,995.3	77.5	75.6	0.00	-9,553.6	561.6	818.4	659.6	158.80	5.154		
19,700.0	9,809.7	18,590.9	8,995.3	77.8	75.9	0.00	-9,588.6	561.3	818.4	659.1	159.33	5.137		
19,760.0	9,809.7	18,650.9	8,995.3	78.2	76.3	0.00	-9,648.6	560.8	818.4	658.2	160.25	5.107		
19,800.0	9,809.8	18,690.9	8,995.3	78.5	76.6	0.00	-9,688.6	560.5	818.4	657.6	160.86	5.088		
19,855.0	9,809.8	18,745.9	8,995.4	78.9	77.0	0.00	-9,743.6	560.0	818.4	656.7	161.71	5.061		
19,900.0	9,809.8	18,790.9	8,995.4	79.3	77.4	0.00	-9,788.6	559.7	818.4	656.0	162.39	5.040		
19,950.0	9,809.8	18,840.9	8,995.4	79.6	77.7	0.00	-9,838.6	559.3	818.4	655.3	163.16	5.016		
20,000.0	9,809.8	18,890.9	8,995.4	80.0	78.1	0.00	-9,888.6	558.8	818.4	654.5	163.93	4.993		
20,045.0	9,809.9	18,935.9	8,995.5	80.4	78.4	0.00	-9,933.6	558.5	818.4	653.8	164.61	4.972		
20,100.0	9,809.9	18,990.9	8,995.5	80.8	78.9	0.00	-9,988.6	558.0	818.4	652.9	165.46	4.946		
20,140.0	9,809.9	19,030.9	8,995.5	81.1	79.2	0.00	-10,028.6	557.7	818.4	652.3	166.07	4.928		
20,200.0	9,809.9	19,090.9	8,995.5	81.5	79.6	0.00	-10,088.6	557.2	818.4	651.4	166.99	4.901		
20,235.0	9,809.9	19,125.9	8,995.5	81.8	79.9	0.00	-10,123.6	556.9	818.4	650.9	167.53	4.885		
20,300.0	9,810.0	19,190.9	8,995.6	82.2	80.3	0.00	-10,188.6	556.4	818.4	649.9	168.52	4.856		
20,330.0	9,810.0	19,220.9	8,995.6	82.5	80.6	0.00	-10,218.6	556.1	818.4	649.4	168.98	4.843		
20,400.0	9,810.0	19,290.9	8,995.6	83.0	81.1	0.00	-10,288.6	555.5	818.4	648.3	170.06	4.812		
20,425.0	9,810.0	19,315.9	8,995.6	83.2	81.3	0.00	-10,313.6	555.3	818.4	647.9	170.44	4.802		
20,500.0	9,810.0	19,390.9	8,995.7	83.7	81.8	0.00	-10,388.6	554.7	818.4	646.8	171.59	4.769		
20,520.0	9,810.0	19,410.9	8,995.7	83.9	82.0	0.00	-10,408.6	554.6	818.4	646.5	171.90	4.761		
20,600.0	9,810.1	19,490.9	8,995.7	84.5	82.6	0.00	-10,488.6	553.9	818.4	645.2	173.13	4.727		
20,615.0	9,810.1	19,505.9	8,995.7	84.6	82.7	0.00	-10,503.6	553.8	818.4	645.0	173.36	4.721		
20,700.0	9,810.1	19,590.9	8,995.8	85.2	83.3	0.00	-10,588.6	553.1	818.4	643.7	174.66	4.685		
20,710.0	9,810.1	19,600.9	8,995.8	85.3	83.4	0.00	-10,598.6	553.0	818.4	643.5	174.82	4.681		
20,800.0	9,810.2	19,690.9	8,995.8	86.0	84.1	0.00	-10,688.6	552.2	818.3	642.1	176.20	4.644		
20,805.0	9,810.2	19,695.9	8,995.8	86.0	84.1	0.00	-10,693.6	552.2	818.3	642.1	176.27	4.642		
20,900.0	9,810.2	19,790.9	8,995.8	86.7	84.8	0.00	-10,788.6	551.4	818.3	640.6	177.73	4.604		
20,995.0	9,810.2	19,885.9	8,995.9	87.4	85.5	0.00	-10,883.6	550.6	818.3	639.1	179.20	4.567		
21,000.0	9,810.2	19,890.9	8,995.9	87.4	85.6	0.00	-10,888.6	550.6	818.3	639.1	179.27	4.565		
21,090.0	9,810.3	19,980.9	8,995.9	88.1	86.2	0.00	-10,978.6	549.8	818.3	637.7	180.66	4.530		
21,100.0	9,810.3	19,990.9	8,995.9	88.2	86.3	0.00	-10,988.6	549.8	818.3	637.5	180.81	4.526		
21,185.0	9,810.3	20,075.9	8,996.0	88.8	87.0	0.00	-11,073.6	549.1	818.3	636.2	182.12	4.493		
21,200.0	9,810.3	20,090.9	8,996.0	88.9	87.1	0.00	-11,088.6	548.9	818.3	636.0	182.35	4.488		
21,280.0	9,810.3	20,170.9	8,996.0	89.5	87.7	0.00	-11,168.6	548.3	818.3	634.7	183.58	4.458		
21,300.0	9,810.3	20,190.9	8,996.0	89.7	87.8	0.00	-11,188.6	548.1	818.3	634.4	183.89	4.450		
21,375.0	9,810.4	20,265.9	8,996.1	90.2	88.4	0.00	-11,263.6	547.5	818.3	633.3	185.04	4.422		
21,400.0	9,810.4	20,290.9	8,996.1	90.4	88.6	0.00	-11,288.6	547.3	818.3	632.9	185.43	4.413		
21,470.0	9,810.4	20,360.9	8,996.1	91.0	89.1	0.00	-11,358.6	546.7	818.3	631.8	186.51	4.388		
21,500.0	9,810.4	20,390.9	8,996.1	91.2	89.3	0.00	-11,388.6	546.5	818.3	631.3	186.97	4.377		
21,565.0	9,810.5	20,455.9	8,996.2	91.7	89.8	0.00	-11,453.6	545.9	818.3	630.3	187.97	4.353		
21,600.0	9,810.5	20,490.9	8,996.2	91.9	90.1	0.00	-11,488.6	545.6	818.3	629.8	188.51	4.341		
21,660.0	9,810.5	20,550.9	8,996.2	92.4	90.5	0.00	-11,548.6	545.1	818.3	628.9	189.43	4.320		
21,700.0	9,810.5	20,590.9	8,996.2	92.7	90.8	0.00	-11,588.6	544.8	818.3	628.2	190.05	4.306		
21,755.0	9,810.5	20,645.9	8,996.2	93.1	91.2	0.00	-11,643.6	544.4	818.3	627.4	190.90	4.286		
21,800.0	9,810.5	20,690.9	8,996.3	93.4	91.6	0.00	-11,688.6	544.0	818.3	626.7	191.59	4.271		
21,850.0	9,810.6	20,740.9	8,996.3	93.8	91.9	0.00	-11,738.6	543.6	818.3	625.9	192.36	4.254		
21,900.0	9,810.6	20,790.9	8,996.3	94.2	92.3	0.00	-11,788.6	543.2	818.3	625.1	193.13	4.237		
21,945.0	9,810.6	20,835.9	8,996.3	94.5	92.6	0.00	-11,833.6	542.8	818.3	624.4	193.83	4.222		
22,000.0	9,810.6	20,890.9	8,996.4	94.9	93.1	0.00	-11,888.6	542.3	818.3	623.6	194.67	4.203		
22,040.0	9,810.6	20,930.9	8,996.4	95.2	93.4	0.00	-11,928.6	542.0	818.3	623.0	195.29	4.190		
22,100.0	9,810.7	20,990.9	8,996.4	95.7	93.8	0.00	-11,988.5	541.5	818.3	622.0	196.22	4.170		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft		
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
22,135.0	9,810.7	21,025.9	8,996.4	95.9	94.1	0.00	-12,023.5	541.2	818.2	621.5	196.76	4.159			
22,200.0	9,810.7	21,090.9	8,996.5	96.4	94.6	0.00	-12,088.5	540.7	818.2	620.5	197.76	4.138			
22,230.0	9,810.7	21,120.9	8,996.5	96.6	94.8	0.00	-12,118.5	540.4	818.2	620.0	198.22	4.128			
22,300.0	9,810.7	21,190.9	8,996.5	97.2	95.3	0.00	-12,188.5	539.9	818.2	618.9	199.30	4.105			
22,325.0	9,810.7	21,215.9	8,996.5	97.3	95.5	0.00	-12,213.5	539.7	818.2	618.5	199.69	4.098			
22,400.0	9,810.8	21,290.9	8,996.5	97.9	96.1	0.00	-12,288.5	539.0	818.2	617.4	200.85	4.074			
22,420.0	9,810.8	21,310.9	8,996.6	98.1	96.2	0.00	-12,308.5	538.9	818.2	617.1	201.16	4.068			
22,500.0	9,810.8	21,390.9	8,996.6	98.7	96.8	0.00	-12,388.5	538.2	818.2	615.8	202.39	4.043			
22,515.0	9,810.8	21,405.9	8,996.6	98.8	96.9	0.00	-12,403.5	538.1	818.2	615.6	202.62	4.038			
22,600.0	9,810.9	21,490.9	8,996.6	99.4	97.6	0.00	-12,488.5	537.4	818.2	614.3	203.94	4.012			
22,610.0	9,810.9	21,500.9	8,996.6	99.5	97.6	0.00	-12,498.5	537.3	818.2	614.1	204.09	4.009			
22,700.0	9,810.9	21,590.9	8,996.7	100.2	98.3	0.00	-12,588.5	536.6	818.2	612.7	205.48	3.982			
22,705.0	9,810.9	21,595.9	8,996.7	100.2	98.4	0.00	-12,593.5	536.5	818.2	612.6	205.56	3.980			
22,800.0	9,810.9	21,690.9	8,996.7	100.9	99.1	0.00	-12,688.5	535.7	818.2	611.2	207.03	3.952			
22,895.0	9,811.0	21,785.9	8,996.8	101.6	99.8	0.00	-12,783.5	535.0	818.2	609.7	208.50	3.924			
22,900.0	9,811.0	21,790.9	8,996.8	101.7	99.8	0.00	-12,788.5	534.9	818.2	609.6	208.57	3.923			
22,990.0	9,811.0	21,880.9	8,996.8	102.3	100.5	0.00	-12,878.5	534.2	818.2	608.2	209.97	3.897			
23,000.0	9,811.0	21,890.9	8,996.8	102.4	100.6	0.00	-12,888.5	534.1	818.2	608.1	210.12	3.894			
23,085.0	9,811.0	21,975.9	8,996.9	103.0	101.2	0.00	-12,973.5	533.4	818.2	606.7	211.44	3.870			
23,100.0	9,811.1	21,990.9	8,996.9	103.2	101.3	0.00	-12,988.5	533.3	818.2	606.5	211.67	3.865			
23,180.0	9,811.1	22,070.9	8,996.9	103.8	101.9	0.00	-13,068.5	532.6	818.2	605.3	212.91	3.843			
23,200.0	9,811.1	22,090.9	8,996.9	103.9	102.1	0.00	-13,088.5	532.4	818.2	605.0	213.21	3.837			
23,275.0	9,811.1	22,165.9	8,997.0	104.5	102.6	0.00	-13,163.5	531.8	818.2	603.8	214.38	3.817			
23,300.0	9,811.1	22,190.9	8,997.0	104.7	102.8	0.00	-13,188.5	531.6	818.2	603.4	214.76	3.810			
23,370.0	9,811.2	22,260.9	8,997.0	105.2	103.4	0.00	-13,258.5	531.0	818.2	602.3	215.85	3.790			
23,400.0	9,811.2	22,290.9	8,997.0	105.4	103.6	0.00	-13,288.5	530.8	818.2	601.8	216.31	3.782			
23,465.0	9,811.2	22,355.9	8,997.0	105.9	104.1	0.00	-13,353.5	530.2	818.2	600.8	217.32	3.765			
23,500.0	9,811.2	22,390.9	8,997.1	106.2	104.3	0.00	-13,388.5	530.0	818.1	600.3	217.86	3.755			
23,560.0	9,811.2	22,450.9	8,997.1	106.6	104.8	0.00	-13,448.5	529.5	818.1	599.4	218.79	3.739			
23,600.0	9,811.2	22,490.9	8,997.1	106.9	105.1	0.00	-13,488.5	529.1	818.1	598.7	219.41	3.729			
23,655.0	9,811.3	22,545.9	8,997.1	107.3	105.5	0.00	-13,543.5	528.7	818.1	597.9	220.26	3.714			
23,700.0	9,811.3	22,590.9	8,997.2	107.7	105.8	0.00	-13,588.5	528.3	818.1	597.2	220.95	3.703			
23,750.0	9,811.3	22,640.9	8,997.2	108.0	106.2	0.00	-13,638.5	527.9	818.1	596.4	221.73	3.690			
23,800.0	9,811.3	22,690.9	8,997.2	108.4	106.6	0.00	-13,688.5	527.5	818.1	595.6	222.50	3.677			
23,845.0	9,811.3	22,735.9	8,997.2	108.8	106.9	0.00	-13,733.5	527.1	818.1	594.9	223.20	3.665			
23,900.0	9,811.4	22,790.9	8,997.2	109.2	107.3	0.00	-13,788.5	526.7	818.1	594.1	224.05	3.651			
23,940.0	9,811.4	22,830.9	8,997.3	109.5	107.6	0.00	-13,828.5	526.3	818.1	593.4	224.67	3.641			
24,000.0	9,811.4	22,890.9	8,997.3	109.9	108.1	0.00	-13,888.5	525.8	818.1	592.5	225.60	3.626			
24,035.0	9,811.4	22,925.9	8,997.3	110.2	108.4	0.00	-13,923.5	525.5	818.1	592.0	226.14	3.618			
24,100.0	9,811.4	22,990.9	8,997.3	110.7	108.9	0.00	-13,988.5	525.0	818.1	591.0	227.15	3.602			
24,130.0	9,811.5	23,020.9	8,997.4	110.9	109.1	0.00	-14,018.5	524.8	818.1	590.5	227.62	3.594			
24,200.0	9,811.5	23,090.9	8,997.4	111.4	109.6	0.00	-14,088.5	524.2	818.1	589.4	228.70	3.577			
24,225.0	9,811.5	23,115.9	8,997.4	111.6	109.8	0.00	-14,113.5	524.0	818.1	589.0	229.09	3.571			
24,300.0	9,811.5	23,190.9	8,997.4	112.2	110.4	0.00	-14,188.5	523.4	818.1	587.8	230.25	3.553			
24,320.0	9,811.5	23,210.9	8,997.4	112.3	110.5	0.00	-14,208.5	523.2	818.1	587.5	230.56	3.548			
24,400.0	9,811.6	23,290.9	8,997.5	112.9	111.1	0.00	-14,288.5	522.5	818.1	586.3	231.80	3.529			
24,415.0	9,811.6	23,305.9	8,997.5	113.0	111.2	0.00	-14,303.5	522.4	818.1	586.0	232.03	3.526			
24,500.0	9,811.6	23,390.9	8,997.5	113.7	111.9	0.00	-14,388.5	521.7	818.1	584.7	233.35	3.506			
24,510.0	9,811.6	23,400.9	8,997.5	113.8	111.9	0.00	-14,398.5	521.6	818.1	584.6	233.51	3.503			
24,600.0	9,811.6	23,490.9	8,997.6	114.4	112.6	0.00	-14,488.5	520.9	818.1	583.2	234.90	3.483			
24,605.0	9,811.6	23,495.9	8,997.6	114.5	112.7	0.00	-14,493.5	520.8	818.1	583.1	234.98	3.481			

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
24,700.0	9,811.7	23,590.9	8,997.6	115.2	113.4	0.00	-14,588.5	520.1	818.1	581.6	236.45	3.460		
24,795.0	9,811.7	23,685.9	8,997.7	115.9	114.1	0.00	-14,683.5	519.3	818.1	580.1	237.93	3.438		
24,800.0	9,811.7	23,690.9	8,997.7	115.9	114.1	0.00	-14,688.5	519.2	818.1	580.0	238.01	3.437		
24,890.0	9,811.8	23,780.9	8,997.7	116.6	114.8	0.00	-14,778.5	518.5	818.0	578.6	239.40	3.417		
24,900.0	9,811.8	23,790.9	8,997.7	116.7	114.9	0.00	-14,788.5	518.4	818.0	578.5	239.56	3.415		
24,985.0	9,811.8	23,875.9	8,997.8	117.3	115.5	0.00	-14,873.4	517.7	818.0	577.2	240.88	3.396		
25,000.0	9,811.8	23,890.9	8,997.8	117.5	115.6	0.00	-14,888.4	517.6	818.0	576.9	241.11	3.393		
25,080.0	9,811.8	23,970.9	8,997.8	118.1	116.2	0.00	-14,968.4	516.9	818.0	575.7	242.35	3.375		
25,100.0	9,811.8	23,990.9	8,997.8	118.2	116.4	0.00	-14,988.4	516.8	818.0	575.4	242.66	3.371		
25,175.0	9,811.9	24,065.9	8,997.8	118.8	117.0	0.00	-15,063.4	516.1	818.0	574.2	243.83	3.355		
25,200.0	9,811.9	24,090.9	8,997.9	119.0	117.2	0.00	-15,088.4	515.9	818.0	573.8	244.21	3.350		
25,270.0	9,811.9	24,160.9	8,997.9	119.5	117.7	0.00	-15,158.4	515.3	818.0	572.7	245.30	3.335		
25,300.0	9,811.9	24,190.9	8,997.9	119.7	117.9	0.00	-15,188.4	515.1	818.0	572.2	245.77	3.328		
25,365.0	9,811.9	24,255.9	8,997.9	120.2	118.4	0.00	-15,253.4	514.6	818.0	571.2	246.78	3.315		
25,385.3	9,811.9	24,276.2	8,997.9	120.4	118.6	0.00	-15,273.8	514.4	818.0	570.9	247.09	3.311		
25,400.0	9,812.0	24,290.9	8,997.9	120.5	118.7	0.00	-15,288.4	514.3	818.0	570.7	247.32	3.308		
25,460.0	9,812.0	24,350.9	8,998.0	120.9	119.1	0.00	-15,348.4	513.8	818.0	569.8	248.25	3.295		
25,500.0	9,812.0	24,390.9	8,998.0	121.2	119.4	0.00	-15,388.4	513.5	818.0	569.1	248.87	3.287		
25,514.4	9,812.0	24,405.3	8,998.0	121.3	119.5	0.00	-15,402.8	513.3	818.0	568.9	249.09	3.284		
25,515.5	9,812.0	24,405.9	8,998.0	121.3	119.5	0.00	-15,403.5	513.3	818.0	568.9	249.11	3.284 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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	3.9	3.9	3.0	3.0	167.77	-149.5	32.4	153.0					
95.0	95.0	98.9	98.9	3.0	3.0	167.77	-149.5	32.4	153.0	146.9	6.04	25.335		
100.0	100.0	103.9	103.9	3.0	3.0	167.77	-149.5	32.4	153.0	146.9	6.04	25.309		
190.0	190.0	193.9	193.9	3.1	3.1	167.77	-149.5	32.4	153.0	146.7	6.26	24.418		
200.0	200.0	203.9	203.9	3.1	3.2	167.77	-149.5	32.4	153.0	146.7	6.30	24.292		
285.0	285.0	288.9	288.9	3.3	3.3	167.77	-149.5	32.4	153.0	146.5	6.51	23.512		
300.0	300.0	303.9	303.9	3.3	3.3	167.77	-149.5	32.4	153.0	146.4	6.55	23.366		
380.0	380.0	383.9	383.9	3.4	3.4	167.77	-149.5	32.4	153.0	146.2	6.74	22.689		
400.0	400.0	403.9	403.9	3.4	3.4	167.77	-149.5	32.4	153.0	146.2	6.79	22.515		
475.0	475.0	478.9	478.9	3.5	3.5	167.77	-149.5	32.4	153.0	146.0	6.98	21.928		
500.0	500.0	503.9	503.9	3.5	3.5	167.77	-149.5	32.4	153.0	145.9	7.04	21.730		
570.0	570.0	573.9	573.9	3.6	3.6	167.77	-149.5	32.4	153.0	145.8	7.21	21.221		
600.0	600.0	603.9	603.9	3.6	3.6	167.77	-149.5	32.4	153.0	145.7	7.28	21.003		
665.0	665.0	668.9	668.9	3.7	3.7	167.77	-149.5	32.4	153.0	145.5	7.44	20.563		
700.0	700.0	703.9	703.9	3.8	3.8	167.77	-149.5	32.4	153.0	145.4	7.53	20.327		
760.0	760.0	763.9	763.9	3.8	3.8	167.77	-149.5	32.4	153.0	145.3	7.67	19.948		
800.0	800.0	803.9	803.9	3.9	3.9	167.77	-149.5	32.4	153.0	145.2	7.77	19.697		
855.0	855.0	858.9	858.9	4.0	4.0	167.77	-149.5	32.4	153.0	145.1	7.90	19.372		
900.0	900.0	903.9	903.9	4.0	4.0	167.77	-149.5	32.4	153.0	145.0	8.01	19.108		
950.0	950.0	953.9	953.9	4.1	4.1	167.77	-149.5	32.4	153.0	144.8	8.12	18.830		
1,000.0	1,000.0	1,003.9	1,003.9	4.1	4.1	167.77	-149.5	32.4	153.0	144.7	8.24	18.556		
1,045.0	1,045.0	1,048.9	1,048.9	4.2	4.2	167.77	-149.5	32.4	153.0	144.6	8.35	18.321		
1,100.0	1,100.0	1,103.9	1,103.9	4.2	4.2	167.77	-149.5	32.4	153.0	144.5	8.48	18.037		
1,140.0	1,140.0	1,143.9	1,143.9	4.3	4.3	167.77	-149.5	32.4	153.0	144.4	8.57	17.840		
1,200.0	1,200.0	1,203.9	1,203.9	4.4	4.4	167.77	-149.5	32.4	153.0	144.3	8.72	17.548		
1,235.0	1,235.0	1,238.9	1,238.9	4.4	4.4	167.77	-149.5	32.4	153.0	144.2	8.80	17.385		
1,300.0	1,300.0	1,303.9	1,303.9	4.5	4.5	167.77	-149.5	32.4	153.0	144.0	8.95	17.087		
1,330.0	1,330.0	1,333.9	1,333.9	4.5	4.5	167.77	-149.5	32.4	153.0	143.9	9.02	16.954		
1,400.0	1,400.0	1,403.9	1,403.9	4.6	4.6	167.77	-149.5	32.4	153.0	143.8	9.19	16.651		
1,425.0	1,425.0	1,428.9	1,428.9	4.6	4.6	167.77	-149.5	32.4	153.0	143.7	9.25	16.546		
1,500.0	1,500.0	1,504.1	1,504.1	4.7	4.7	167.77	-149.5	32.4	153.0	143.5	9.42	16.232		
1,520.0	1,520.0	1,525.0	1,525.0	4.7	4.8	116.98	-149.4	32.4	152.9	143.4	9.49	16.118		
1,600.0	1,600.0	1,608.8	1,608.7	4.9	4.9	117.18	-147.6	33.1	152.1	142.4	9.72	15.647		
1,615.0	1,615.0	1,624.4	1,624.4	4.9	5.0	117.25	-147.0	33.4	151.9	142.1	9.78	15.522		
1,700.0	1,699.8	1,713.4	1,713.2	5.1	5.2	117.86	-142.1	35.2	149.8	139.7	10.14	14.778		
1,710.0	1,709.8	1,723.8	1,723.6	5.1	5.2	117.96	-141.3	35.5	149.5	139.3	10.18	14.685		
1,800.0	1,799.5	1,817.8	1,817.2	5.4	5.5	119.06	-133.0	38.7	146.1	135.5	10.54	13.851		
1,805.0	1,804.4	1,823.1	1,822.4	5.4	5.5	119.14	-132.5	38.9	145.8	135.3	10.56	13.810		
1,900.0	1,898.7	1,919.0	1,917.6	5.7	5.6	120.96	-121.7	43.0	141.7	130.9	10.89	13.011		
1,995.0	1,992.5	2,013.7	2,011.6	6.0	5.9	123.89	-110.9	47.1	139.4	128.1	11.35	12.286		
2,000.0	1,997.5	2,018.7	2,016.6	6.0	5.9	124.07	-110.3	47.3	139.4	128.0	11.37	12.253		
2,045.2	2,041.9	2,063.6	2,061.2	6.1	6.0	125.88	-105.2	49.3	139.1	127.5	11.62	11.972 CC, ES		
2,090.0	2,085.8	2,108.2	2,105.4	6.3	6.1	127.89	-100.1	51.2	139.4	127.5	11.87	11.739		
2,100.0	2,095.6	2,118.2	2,115.3	6.3	6.1	128.36	-99.0	51.7	139.5	127.6	11.93	11.693		
2,185.0	2,178.5	2,202.4	2,198.9	6.6	6.4	132.75	-89.4	55.3	142.1	129.7	12.47	11.393		
2,200.0	2,193.1	2,217.3	2,213.7	6.7	6.4	133.58	-87.7	56.0	142.9	130.3	12.58	11.359		
2,280.0	2,270.7	2,296.3	2,292.1	6.9	6.6	137.94	-78.7	59.4	147.4	134.3	13.11	11.245		
2,300.0	2,290.1	2,316.1	2,311.8	7.0	6.7	138.99	-76.5	60.3	148.7	135.4	13.24	11.226		
2,375.0	2,362.9	2,390.2	2,385.3	7.2	6.9	142.76	-68.0	63.5	153.8	140.1	13.76	11.177		
2,400.0	2,387.1	2,415.0	2,409.9	7.3	7.0	143.97	-65.2	64.5	155.7	141.8	13.94	11.170		
2,470.0	2,455.0	2,484.2	2,478.6	7.5	7.2	147.18	-57.3	67.5	161.3	146.9	14.44	11.169		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS						Rule Assigned:						Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
2,500.0	2,484.1	2,513.8	2,508.0	7.6	7.3	148.48	-54.0	68.8	163.9	149.2	14.66	11.178			
2,565.0	2,547.2	2,578.1	2,571.8	7.9	7.5	151.18	-46.7	71.6	169.7	154.5	15.14	11.209			
2,600.0	2,581.2	2,612.7	2,606.1	8.0	7.6	152.56	-42.7	73.1	172.9	157.5	15.39	11.235			
2,660.0	2,639.4	2,672.0	2,665.0	8.2	7.8	154.80	-36.0	75.7	178.7	162.9	15.84	11.287			
2,700.0	2,678.2	2,711.5	2,704.3	8.4	7.9	156.22	-31.5	77.4	182.8	166.6	16.13	11.330			
2,755.0	2,731.6	2,765.9	2,758.2	8.6	8.1	158.07	-25.3	79.8	188.5	171.9	16.54	11.394			
2,800.0	2,775.2	2,810.4	2,802.4	8.8	8.3	159.50	-20.2	81.7	193.3	176.4	16.88	11.454			
2,850.0	2,823.7	2,859.8	2,851.4	9.0	8.5	161.00	-14.6	83.9	198.8	181.5	17.25	11.523			
2,900.0	2,872.3	2,909.3	2,900.5	9.2	8.6	162.43	-8.9	86.0	204.4	186.8	17.62	11.599			
2,945.0	2,915.9	2,953.8	2,944.7	9.3	8.8	163.65	-3.9	87.9	209.5	191.6	17.96	11.668			
3,000.0	2,969.3	3,008.1	2,998.6	9.6	9.0	165.06	2.3	90.3	216.0	197.6	18.37	11.757			
3,040.0	3,008.1	3,047.7	3,037.9	9.7	9.1	166.03	6.8	92.0	220.7	202.0	18.67	11.823			
3,100.0	3,066.3	3,107.0	3,096.7	10.0	9.3	167.42	13.6	94.6	227.9	208.8	19.11	11.926			
3,135.0	3,100.3	3,141.6	3,131.1	10.1	9.5	168.19	17.5	96.1	232.2	212.8	19.37	11.986			
3,200.0	3,163.3	3,205.8	3,194.9	10.4	9.7	169.54	24.8	98.9	240.3	220.4	19.86	12.100			
3,230.0	3,192.5	3,235.5	3,224.3	10.5	9.8	170.14	28.2	100.2	244.0	223.9	20.08	12.152			
3,300.0	3,260.4	3,304.7	3,293.0	10.8	10.1	171.46	36.1	103.2	252.9	232.3	20.60	12.276			
3,325.0	3,284.6	3,329.4	3,317.5	10.9	10.2	171.90	38.9	104.3	256.1	235.3	20.78	12.320			
3,400.0	3,357.4	3,403.6	3,391.1	11.2	10.4	173.19	47.3	107.5	265.7	244.4	21.34	12.453			
3,420.0	3,376.8	3,423.3	3,410.7	11.3	10.5	173.51	49.6	108.3	268.4	246.9	21.49	12.489			
3,500.0	3,454.4	3,502.4	3,489.2	11.7	10.8	174.76	58.6	111.8	278.8	256.8	22.08	12.629			
3,515.0	3,469.0	3,517.3	3,504.0	11.7	10.9	174.98	60.3	112.4	280.8	258.6	22.19	12.655			
3,600.0	3,551.5	3,601.3	3,587.4	12.1	11.2	176.19	69.8	116.1	292.1	269.3	22.82	12.803			
3,610.0	3,561.2	3,611.2	3,597.2	12.2	11.2	176.32	71.0	116.5	293.5	270.6	22.89	12.820			
3,700.0	3,648.5	3,700.2	3,685.5	12.6	11.6	177.49	81.1	120.4	305.6	282.0	23.55	12.973			
3,705.0	3,653.3	3,705.1	3,690.4	12.6	11.6	177.56	81.7	120.6	306.2	282.6	23.59	12.981			
3,800.0	3,745.5	3,799.0	3,783.6	13.0	11.9	178.69	92.4	124.6	319.1	294.9	24.29	13.139			
3,895.0	3,837.7	3,892.9	3,876.8	13.4	12.3	179.74	103.1	128.7	332.2	307.2	24.99	13.294			
3,900.0	3,842.6	3,897.9	3,881.7	13.5	12.3	179.79	103.6	128.9	332.9	307.8	25.02	13.302			
3,990.0	3,929.9	3,986.9	3,970.1	13.9	12.7	-179.30	113.7	132.8	345.3	319.6	25.68	13.444			
4,000.0	3,939.6	3,996.7	3,979.9	13.9	12.7	-179.20	114.9	133.2	346.7	320.9	25.76	13.459			
4,085.0	4,022.1	4,080.8	4,063.3	14.3	13.0	-178.40	124.4	136.9	358.5	332.1	26.38	13.589			
4,100.0	4,036.6	4,095.6	4,078.0	14.4	13.1	-178.27	126.1	137.5	360.6	334.1	26.49	13.612			
4,180.0	4,114.2	4,174.7	4,156.5	14.7	13.4	-177.57	135.1	141.0	371.8	344.7	27.08	13.731			
4,200.0	4,133.6	4,194.5	4,176.1	14.8	13.5	-177.40	137.4	141.8	374.6	347.4	27.22	13.761			
4,275.0	4,206.4	4,264.8	4,246.0	15.2	13.8	-176.86	145.0	144.7	385.5	357.8	27.74	13.895			
4,300.0	4,230.7	4,288.2	4,269.2	15.3	13.8	-176.70	147.4	145.6	389.3	361.4	27.92	13.944			
4,370.0	4,298.6	4,353.5	4,334.2	15.6	14.1	-176.31	153.5	148.0	400.4	372.0	28.40	14.098			
4,400.0	4,327.7	4,381.4	4,362.0	15.7	14.2	-176.17	155.9	148.9	405.4	376.8	28.61	14.170			
4,465.0	4,390.8	4,441.8	4,422.2	16.0	14.4	-175.91	160.7	150.7	416.6	387.6	29.06	14.337			
4,500.0	4,424.7	4,474.3	4,454.5	16.2	14.5	-175.79	163.1	151.6	422.9	393.6	29.30	14.434			
4,537.3	4,460.9	4,508.8	4,489.0	16.4	14.7	-175.69	165.3	152.5	429.7	400.2	29.54	14.546			
4,560.0	4,483.0	4,529.8	4,509.9	16.5	14.7	-175.64	166.6	153.0	433.9	404.2	29.69	14.613			
4,600.0	4,521.9	4,566.8	4,546.9	16.6	14.9	-175.57	168.8	153.8	441.0	411.1	29.96	14.721			
4,655.0	4,575.7	4,617.8	4,597.8	16.9	15.0	-175.49	171.3	154.8	450.2	419.9	30.33	14.842			
4,700.0	4,619.8	4,659.5	4,639.4	17.1	15.2	-175.45	173.1	155.4	457.3	426.6	30.64	14.925			
4,750.0	4,669.0	4,705.9	4,685.8	17.4	15.3	-175.42	174.7	156.1	464.6	433.6	30.97	15.004			
4,800.0	4,718.4	4,752.3	4,732.2	17.6	15.4	-175.41	176.0	156.5	471.4	440.1	31.28	15.070			
4,845.0	4,762.9	4,794.0	4,773.9	17.8	15.6	-175.42	176.8	156.9	477.1	445.5	31.56	15.117			
4,900.0	4,817.5	4,845.1	4,825.0	18.0	15.7	-175.44	177.5	157.1	483.4	451.6	31.85	15.177			
4,940.0	4,857.2	4,882.3	4,862.2	18.2	15.7	-175.47	177.7	157.2	487.6	455.6	32.05	15.214			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
5,000.0	4,916.9	4,941.0	4,920.8	18.4	15.8	-175.53	177.7	157.2	493.2	460.9	32.35	15.248	
5,035.0	4,951.8	4,975.9	4,955.7	18.6	15.8	-175.56	177.7	157.2	495.9	463.4	32.50	15.256	
5,100.0	5,016.7	5,040.7	5,020.6	18.8	15.8	-175.60	177.7	157.2	499.7	466.9	32.80	15.237	
5,130.0	5,046.7	5,070.7	5,050.6	18.9	15.8	-175.61	177.7	157.2	501.0	468.1	32.91	15.222	
5,200.0	5,116.7	5,140.7	5,120.6	19.1	15.9	-175.63	177.7	157.2	502.8	469.6	33.18	15.151	
5,225.0	5,141.7	5,165.7	5,145.6	19.2	15.9	-175.63	177.7	157.2	503.0	469.7	33.23	15.136	
5,237.3	5,154.0	5,178.0	5,157.9	19.2	15.9	-124.84	177.7	157.2	503.0	469.7	33.25	15.126	
5,300.0	5,216.7	5,240.7	5,220.6	19.2	15.9	-124.84	177.7	157.2	503.0	469.7	33.31	15.099	
5,320.0	5,236.7	5,260.7	5,240.6	19.2	16.0	-124.84	177.7	157.2	503.0	469.7	33.34	15.089	
5,400.0	5,316.7	5,340.7	5,320.6	19.3	16.0	-124.84	177.7	157.2	503.0	469.6	33.42	15.048	
5,415.0	5,331.7	5,355.7	5,335.6	19.3	16.0	-124.84	177.7	157.2	503.0	469.6	33.44	15.041	
5,500.0	5,416.7	5,440.7	5,420.6	19.3	16.1	-124.84	177.7	157.2	503.0	469.5	33.54	14.998	
5,510.0	5,426.7	5,450.7	5,430.6	19.3	16.1	-124.84	177.7	157.2	503.0	469.4	33.55	14.993	
5,600.0	5,516.7	5,540.7	5,520.6	19.3	16.1	-124.84	177.7	157.2	503.0	469.3	33.65	14.948	
5,605.0	5,521.7	5,545.7	5,525.6	19.3	16.1	-124.84	177.7	157.2	503.0	469.3	33.66	14.945	
5,700.0	5,616.7	5,640.7	5,620.6	19.4	16.2	-124.84	177.7	157.2	503.0	469.2	33.76	14.897	
5,795.0	5,711.7	5,735.7	5,715.6	19.4	16.2	-124.84	177.7	157.2	503.0	469.1	33.87	14.850	
5,800.0	5,716.7	5,740.7	5,720.6	19.4	16.2	-124.84	177.7	157.2	503.0	469.1	33.88	14.847	
5,890.0	5,806.7	5,830.7	5,810.6	19.5	16.3	-124.84	177.7	157.2	503.0	469.0	33.98	14.803	
5,900.0	5,816.7	5,840.7	5,820.6	19.5	16.3	-124.84	177.7	157.2	503.0	469.0	33.99	14.798	
5,985.0	5,901.7	5,925.7	5,905.6	19.5	16.4	-124.84	177.7	157.2	503.0	468.9	34.09	14.755	
6,000.0	5,916.7	5,940.7	5,920.6	19.5	16.4	-124.84	177.7	157.2	503.0	468.9	34.11	14.748	
6,080.0	5,996.7	6,020.7	6,000.6	19.6	16.4	-124.84	177.7	157.2	503.0	468.8	34.20	14.708	
6,100.0	6,016.7	6,040.7	6,020.6	19.6	16.4	-124.84	177.7	157.2	503.0	468.8	34.22	14.699	
6,175.0	6,091.7	6,115.7	6,095.6	19.6	16.5	-124.84	177.7	157.2	503.0	468.7	34.31	14.662	
6,200.0	6,116.7	6,140.7	6,120.6	19.6	16.5	-124.84	177.7	157.2	503.0	468.7	34.34	14.649	
6,270.0	6,186.7	6,210.7	6,190.6	19.7	16.5	-124.84	177.7	157.2	503.0	468.6	34.42	14.615	
6,300.0	6,216.7	6,240.7	6,220.6	19.7	16.6	-124.84	177.7	157.2	503.0	468.5	34.45	14.600	
6,365.0	6,281.7	6,305.7	6,285.6	19.7	16.6	-124.84	177.7	157.2	503.0	468.5	34.53	14.568	
6,400.0	6,316.7	6,340.7	6,320.6	19.7	16.6	-124.84	177.7	157.2	503.0	468.4	34.57	14.551	
6,460.0	6,376.7	6,400.7	6,380.6	19.8	16.7	-124.84	177.7	157.2	503.0	468.4	34.64	14.522	
6,500.0	6,416.7	6,440.7	6,420.6	19.8	16.7	-124.84	177.7	157.2	503.0	468.3	34.68	14.502	
6,555.0	6,471.7	6,495.7	6,475.6	19.8	16.7	-124.84	177.7	157.2	503.0	468.2	34.75	14.476	
6,600.0	6,516.7	6,540.7	6,520.6	19.8	16.7	-124.84	177.7	157.2	503.0	468.2	34.80	14.454	
6,650.0	6,566.7	6,590.7	6,570.6	19.9	16.8	-124.84	177.7	157.2	503.0	468.1	34.86	14.429	
6,700.0	6,616.7	6,640.7	6,620.6	19.9	16.8	-124.84	177.7	157.2	503.0	468.1	34.92	14.405	
6,745.0	6,661.7	6,685.7	6,665.6	19.9	16.8	-124.84	177.7	157.2	503.0	468.0	34.97	14.384	
6,800.0	6,716.7	6,740.7	6,720.6	19.9	16.9	-124.84	177.7	157.2	503.0	468.0	35.03	14.357	
6,840.0	6,756.7	6,780.7	6,760.6	19.9	16.9	-124.84	177.7	157.2	503.0	467.9	35.08	14.338	
6,900.0	6,816.7	6,840.7	6,820.6	20.0	16.9	-124.84	177.7	157.2	503.0	467.8	35.15	14.309	
6,935.0	6,851.7	6,875.7	6,855.6	20.0	16.9	-124.84	177.7	157.2	503.0	467.8	35.19	14.292	
7,000.0	6,916.7	6,940.7	6,920.6	20.0	17.0	-124.84	177.7	157.2	503.0	467.7	35.27	14.261	
7,030.0	6,946.7	6,970.7	6,950.6	20.0	17.0	-124.84	177.7	157.2	503.0	467.7	35.31	14.247	
7,100.0	7,016.7	7,040.7	7,020.6	20.1	17.1	-124.84	177.7	157.2	503.0	467.6	35.39	14.213	
7,125.0	7,041.7	7,065.7	7,045.6	20.1	17.1	-124.84	177.7	157.2	503.0	467.6	35.42	14.202	
7,200.0	7,116.7	7,140.7	7,120.6	20.1	17.1	-124.84	177.7	157.2	503.0	467.5	35.51	14.166	
7,220.0	7,136.7	7,160.7	7,140.6	20.1	17.1	-124.84	177.7	157.2	503.0	467.5	35.53	14.156	
7,300.0	7,216.7	7,240.7	7,220.6	20.2	17.2	-124.84	177.7	157.2	503.0	467.4	35.63	14.119	
7,315.0	7,231.7	7,255.7	7,235.6	20.2	17.2	-124.84	177.7	157.2	503.0	467.4	35.64	14.112	
7,400.0	7,316.7	7,340.7	7,320.6	20.2	17.2	-124.84	177.7	157.2	503.0	467.2	35.75	14.071	
7,410.0	7,326.7	7,350.7	7,330.6	20.2	17.2	-124.84	177.7	157.2	503.0	467.2	35.76	14.067	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)		
7,500.0	7,416.7	7,440.7	7,420.6	20.3	17.3	-124.84	177.7	157.2	503.0	467.1	35.87	14.025	
7,505.0	7,421.7	7,445.7	7,425.6	20.3	17.3	-124.84	177.7	157.2	503.0	467.1	35.87	14.022	
7,600.0	7,516.7	7,540.7	7,520.6	20.3	17.4	-124.84	177.7	157.2	503.0	467.0	35.99	13.978	
7,695.0	7,611.7	7,635.7	7,615.6	20.4	17.4	-124.84	177.7	157.2	503.0	466.9	36.10	13.934	
7,700.0	7,616.7	7,640.7	7,620.6	20.4	17.4	-124.84	177.7	157.2	503.0	466.9	36.11	13.931	
7,790.0	7,706.7	7,730.7	7,710.6	20.4	17.5	-124.84	177.7	157.2	503.0	466.8	36.21	13.889	
7,800.0	7,716.7	7,740.7	7,720.6	20.4	17.5	-124.84	177.7	157.2	503.0	466.8	36.23	13.885	
7,885.0	7,801.7	7,825.7	7,805.6	20.5	17.6	-124.84	177.7	157.2	503.0	466.7	36.33	13.846	
7,900.0	7,816.7	7,840.7	7,820.6	20.5	17.6	-124.84	177.7	157.2	503.0	466.6	36.35	13.839	
7,980.0	7,896.7	7,920.7	7,900.6	20.5	17.6	-124.84	177.7	157.2	503.0	466.6	36.44	13.802	
8,000.0	7,916.7	7,940.7	7,920.6	20.5	17.6	-124.84	177.7	157.2	503.0	466.5	36.47	13.793	
8,075.0	7,991.7	8,015.7	7,995.6	20.6	17.7	-124.84	177.7	157.2	503.0	466.4	36.56	13.758	
8,100.0	8,016.7	8,040.7	8,020.6	20.6	17.7	-124.84	177.7	157.2	503.0	466.4	36.59	13.747	
8,170.0	8,086.7	8,110.7	8,090.6	20.6	17.7	-124.84	177.7	157.2	503.0	466.3	36.68	13.715	
8,200.0	8,116.7	8,140.7	8,120.6	20.6	17.8	-124.84	177.7	157.2	503.0	466.3	36.71	13.701	
8,265.0	8,181.7	8,205.7	8,185.6	20.7	17.8	-124.84	177.7	157.2	503.0	466.2	36.79	13.672	
8,300.0	8,216.7	8,240.7	8,220.6	20.7	17.8	-124.84	177.7	157.2	503.0	466.2	36.83	13.656	
8,360.0	8,276.7	8,300.7	8,280.6	20.7	17.9	-124.84	177.7	157.2	503.0	466.1	36.91	13.629	
8,400.0	8,316.7	8,340.7	8,320.6	20.7	17.9	-124.84	177.7	157.2	503.0	466.0	36.96	13.610	
8,455.0	8,371.7	8,395.7	8,375.6	20.8	17.9	-124.84	177.7	157.2	503.0	466.0	37.02	13.586	
8,457.3	8,374.0	8,398.0	8,377.9	20.8	17.9	-124.84	177.7	157.2	503.0	466.0	37.03	13.585	
8,500.0	8,416.7	8,436.8	8,416.7	20.8	17.9	-124.84	177.6	157.2	503.0	466.0	37.04	13.583	
8,550.0	8,466.7	8,469.9	8,449.8	20.8	18.0	-124.97	176.3	157.2	504.3	467.3	36.95	13.647	
8,600.0	8,516.7	8,500.0	8,479.7	20.8	18.0	-125.24	173.3	157.2	507.2	470.3	36.84	13.768	
8,645.0	8,561.7	8,531.9	8,511.2	20.9	18.0	-125.68	168.5	157.1	511.3	474.5	36.80	13.894	
8,700.0	8,616.7	8,566.8	8,545.3	20.9	18.1	-126.34	161.3	157.1	518.2	481.5	36.71	14.117	
8,740.0	8,656.7	8,600.0	8,577.4	20.9	18.1	-127.12	152.4	157.0	524.7	487.9	36.75	14.277	
8,800.0	8,716.7	8,627.5	8,603.4	21.0	18.2	-127.87	143.7	156.9	536.3	499.8	36.51	14.690	
8,835.0	8,751.7	8,650.0	8,624.5	21.0	18.2	-128.56	135.7	156.9	544.4	508.0	36.46	14.932	
8,900.0	8,816.7	8,683.9	8,655.5	21.0	18.3	-129.69	122.0	156.7	561.9	525.7	36.26	15.496	
8,930.0	8,846.7	8,700.0	8,669.9	21.0	18.3	-130.27	114.9	156.7	571.1	534.9	36.18	15.785	
9,000.0	8,916.7	8,735.5	8,701.0	21.1	18.3	-131.61	97.7	156.5	595.1	559.1	35.96	16.546	
9,025.0	8,941.7	8,750.0	8,713.4	21.1	18.3	-132.19	90.2	156.5	604.5	568.6	35.92	16.830	
9,100.0	9,016.7	8,782.2	8,740.1	21.1	18.4	-133.50	72.4	156.3	635.6	600.0	35.64	17.833	
9,120.0	9,036.7	8,800.0	8,754.5	21.1	18.4	-134.26	61.8	156.2	644.7	609.0	35.70	18.058	
9,200.0	9,116.7	8,824.0	8,773.4	21.2	18.5	-135.28	47.0	156.1	683.1	647.8	35.33	19.338	
9,215.0	9,131.7	8,829.9	8,777.9	21.2	18.5	-135.54	43.2	156.1	690.8	655.6	35.28	19.581	
9,300.0	9,216.7	8,850.0	8,793.1	21.2	18.5	-136.42	30.0	156.0	737.2	702.3	34.92	21.114	
9,310.0	9,226.7	8,864.8	8,803.9	21.2	18.5	-137.06	19.9	155.9	742.8	707.7	35.02	21.209	
9,316.4	9,233.0	8,867.0	8,805.5	21.2	18.5	-137.16	18.4	155.9	746.4	711.4	35.00	21.324	
9,350.0	9,266.7	8,878.8	8,813.9	21.2	18.5	46.09	10.2	155.8	765.6	731.0	34.66	22.093	
9,400.0	9,316.4	8,900.0	8,828.7	21.3	18.6	43.04	-5.1	155.7	793.2	758.7	34.57	22.944	
9,405.0	9,321.3	8,900.0	8,828.7	21.3	18.6	42.82	-5.1	155.7	795.9	761.4	34.54	23.041	
9,450.0	9,365.5	8,914.6	8,838.5	21.3	18.6	40.57	-15.9	155.6	819.5	785.1	34.43	23.799	
9,500.0	9,413.5	8,933.0	8,850.4	21.3	18.6	38.34	-29.9	155.5	844.2	809.9	34.35	24.581	
9,550.0	9,460.3	8,950.0	8,861.1	21.3	18.6	36.45	-43.2	155.4	867.4	833.1	34.26	25.317	
9,595.0	9,500.8	8,968.6	8,872.3	21.4	18.6	34.93	-58.0	155.3	886.6	852.4	34.23	25.905	
9,600.0	9,505.2	8,970.5	8,873.4	21.4	18.6	34.78	-59.6	155.2	888.7	854.5	34.22	25.969	
9,650.0	9,548.1	9,000.0	8,890.0	21.4	18.7	33.29	-83.9	155.0	908.3	874.0	34.27	26.505	
9,690.0	9,580.8	9,000.0	8,890.0	21.4	18.7	32.47	-83.9	155.0	922.3	888.2	34.13	27.023	
9,700.0	9,588.6	9,000.0	8,890.0	21.4	18.7	32.28	-83.9	155.0	925.7	891.6	34.10	27.147	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,750.0	9,626.4	9,028.1	8,904.7	21.5	18.7	31.26	-107.9	154.8	941.0	906.9	34.16	27.546	
9,785.0	9,651.1	9,050.0	8,915.3	21.5	18.7	30.68	-127.0	154.7	950.7	916.4	34.23	27.776	
9,800.0	9,661.3	9,050.0	8,915.3	21.5	18.7	30.48	-127.0	154.7	954.3	920.2	34.19	27.914	
9,850.0	9,692.8	9,067.1	8,923.1	21.6	18.7	29.89	-142.2	154.6	965.5	931.3	34.20	28.233	
9,880.0	9,710.1	9,078.8	8,928.2	21.6	18.8	29.60	-152.8	154.5	971.1	936.9	34.22	28.381	
9,900.0	9,720.9	9,100.0	8,936.8	21.6	18.8	29.46	-172.2	154.3	974.6	940.3	34.32	28.401	
9,950.0	9,745.2	9,100.0	8,936.8	21.6	18.8	29.14	-172.2	154.3	981.1	946.9	34.24	28.656	
9,975.0	9,755.9	9,116.1	8,942.8	21.7	18.8	29.06	-187.1	154.2	983.5	949.2	34.30	28.673	
10,000.0	9,765.6	9,125.9	8,946.3	21.7	18.8	29.01	-196.2	154.1	985.5	951.1	34.33	28.706	
10,050.0	9,782.0	9,150.0	8,954.2	21.7	18.8	29.03	-219.0	153.9	987.6	953.2	34.41	28.699	
10,070.0	9,787.4	9,150.0	8,954.2	21.8	18.8	29.02	-219.0	153.9	987.8	953.4	34.39	28.721	
10,100.0	9,794.2	9,165.2	8,958.7	21.8	18.8	29.14	-233.5	153.8	987.5	953.0	34.45	28.662	
10,150.0	9,802.2	9,184.8	8,963.9	21.8	18.8	29.42	-252.4	153.6	985.1	950.6	34.52	28.538	
10,165.0	9,803.7	9,200.0	8,967.5	21.9	18.9	29.62	-267.2	153.5	984.0	949.4	34.59	28.449	
10,200.0	9,805.8	9,200.0	8,967.5	21.9	18.9	29.80	-267.2	153.5	980.5	945.9	34.56	28.371	
10,216.1	9,806.0	9,200.0	8,967.5	21.9	18.9	29.89	-267.2	153.5	978.6	944.1	34.53	28.338	
10,260.0	9,806.0	9,227.8	8,973.1	22.0	18.9	30.10	-294.4	153.3	973.2	938.6	34.62	28.112	
10,300.0	9,806.0	9,250.0	8,976.5	22.0	18.9	30.22	-316.3	153.1	969.2	934.5	34.68	27.946	
10,355.0	9,806.1	9,265.8	8,978.5	22.1	18.9	30.25	-332.0	153.0	964.8	930.1	34.71	27.793	
10,400.0	9,806.1	9,284.0	8,980.2	22.2	18.9	30.30	-350.1	152.8	962.2	927.4	34.77	27.669	
10,450.0	9,806.1	9,300.0	8,981.3	22.2	18.9	30.32	-366.1	152.7	960.3	925.5	34.84	27.565	
10,500.0	9,806.1	9,328.9	8,982.0	22.3	18.9	30.35	-395.0	152.5	959.6	924.6	34.96	27.449	
10,512.3	9,806.1	9,331.2	8,982.0	22.3	18.9	30.35	-397.3	152.5	959.5	924.6	34.97	27.441	
10,545.0	9,806.1	9,363.9	8,982.0	22.4	18.9	30.35	-429.9	152.2	959.5	924.4	35.12	27.323	
10,600.0	9,806.1	9,418.9	8,982.0	22.5	18.9	30.35	-484.9	151.7	959.5	924.1	35.38	27.120	
10,640.0	9,806.2	9,458.9	8,982.1	22.6	19.0	30.35	-524.9	151.4	959.5	923.9	35.59	26.959	
10,700.0	9,806.2	9,518.9	8,982.1	22.7	19.0	30.35	-584.9	150.9	959.5	923.6	35.92	26.716	
10,735.0	9,806.2	9,553.9	8,982.1	22.7	19.0	30.35	-619.9	150.6	959.5	923.4	36.12	26.563	
10,800.0	9,806.2	9,618.9	8,982.1	22.8	19.0	30.35	-684.9	150.1	959.5	923.0	36.51	26.280	
10,830.0	9,806.2	9,648.9	8,982.1	22.9	19.0	30.35	-714.9	149.8	959.5	922.8	36.70	26.142	
10,900.0	9,806.3	9,718.9	8,982.2	23.0	19.1	30.35	-784.9	149.2	959.5	922.3	37.16	25.820	
10,925.0	9,806.3	9,743.9	8,982.2	23.1	19.1	30.35	-809.9	149.0	959.5	922.2	37.34	25.699	
11,000.0	9,806.3	9,818.9	8,982.2	23.3	19.1	30.35	-884.9	148.4	959.5	921.6	37.87	25.339	
11,020.0	9,806.3	9,838.9	8,982.2	23.3	19.1	30.35	-904.9	148.3	959.5	921.5	38.02	25.239	
11,100.0	9,806.3	9,918.9	8,982.3	23.5	19.2	30.35	-984.9	147.6	959.5	920.9	38.62	24.844	
11,115.0	9,806.4	9,933.9	8,982.3	23.6	19.2	30.35	-999.9	147.5	959.5	920.8	38.74	24.767	
11,200.0	9,806.4	10,018.9	8,982.3	23.8	19.3	30.35	-1,084.9	146.8	959.5	920.1	39.42	24.338	
11,210.0	9,806.4	10,028.9	8,982.3	23.8	19.3	30.35	-1,094.9	146.7	959.5	920.0	39.51	24.286	
11,300.0	9,806.4	10,118.9	8,982.4	24.1	19.4	30.35	-1,184.9	145.9	959.5	919.2	40.27	23.826	
11,305.0	9,806.4	10,123.9	8,982.4	24.1	19.4	30.35	-1,189.9	145.9	959.5	919.2	40.31	23.800	
11,400.0	9,806.5	10,218.9	8,982.4	24.3	19.5	30.35	-1,284.9	145.1	959.5	918.3	41.16	23.312	
11,495.0	9,806.5	10,313.9	8,982.5	24.7	19.6	30.35	-1,379.9	144.3	959.5	917.4	42.04	22.823	
11,500.0	9,806.5	10,318.9	8,982.5	24.7	19.6	30.35	-1,384.9	144.3	959.5	917.4	42.09	22.798	
11,590.0	9,806.5	10,408.9	8,982.5	25.0	19.8	30.35	-1,474.9	143.5	959.5	916.5	42.95	22.338	
11,600.0	9,806.5	10,418.9	8,982.5	25.0	19.8	30.35	-1,484.9	143.5	959.5	916.4	43.05	22.287	
11,685.0	9,806.6	10,503.9	8,982.5	25.3	20.0	30.35	-1,569.9	142.8	959.5	915.6	43.90	21.857	
11,700.0	9,806.6	10,518.9	8,982.6	25.4	20.0	30.35	-1,584.9	142.6	959.5	915.4	44.05	21.781	
11,780.0	9,806.6	10,598.9	8,982.6	25.7	20.2	30.35	-1,664.9	142.0	959.4	914.6	44.87	21.382	
11,800.0	9,806.6	10,618.9	8,982.6	25.7	20.3	30.35	-1,684.9	141.8	959.4	914.4	45.08	21.283	
11,875.0	9,806.6	10,693.9	8,982.6	26.0	20.5	30.36	-1,759.9	141.2	959.4	913.6	45.87	20.915	
11,900.0	9,806.7	10,718.9	8,982.6	26.1	20.6	30.36	-1,784.9	141.0	959.4	913.3	46.14	20.794	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
11,970.0	9,806.7	10,788.9	8,982.7	26.4	20.8	30.36	-1,854.9	140.4	959.4	912.5	46.90	20.457
12,000.0	9,806.7	10,818.9	8,982.7	26.5	20.9	30.36	-1,884.9	140.2	959.4	912.2	47.23	20.315
12,065.0	9,806.7	10,883.9	8,982.7	26.8	21.2	30.36	-1,949.9	139.6	959.4	911.5	47.95	20.009
12,100.0	9,806.7	10,918.9	8,982.7	27.0	21.3	30.36	-1,984.9	139.3	959.4	911.1	48.34	19.847
12,160.0	9,806.8	10,978.9	8,982.8	27.2	21.6	30.36	-2,044.9	138.8	959.4	910.4	49.02	19.571
12,200.0	9,806.8	11,018.9	8,982.8	27.4	21.8	30.36	-2,084.9	138.5	959.4	909.9	49.48	19.390
12,255.0	9,806.8	11,073.9	8,982.8	27.7	22.0	30.36	-2,139.9	138.1	959.4	909.3	50.12	19.144
12,300.0	9,806.8	11,118.9	8,982.8	27.9	22.3	30.36	-2,184.9	137.7	959.4	908.8	50.64	18.946
12,350.0	9,806.8	11,168.9	8,982.9	28.1	22.5	30.36	-2,234.9	137.3	959.4	908.2	51.23	18.728
12,400.0	9,806.9	11,218.9	8,982.9	28.3	22.8	30.36	-2,284.9	136.9	959.4	907.6	51.82	18.514
12,445.0	9,806.9	11,263.9	8,982.9	28.6	23.0	30.36	-2,329.9	136.5	959.4	907.0	52.36	18.323
12,500.0	9,806.9	11,318.9	8,982.9	28.8	23.3	30.36	-2,384.9	136.0	959.4	906.4	53.02	18.095
12,540.0	9,806.9	11,358.9	8,982.9	29.0	23.6	30.36	-2,424.9	135.7	959.4	905.9	53.51	17.930
12,600.0	9,806.9	11,418.9	8,983.0	29.3	23.9	30.36	-2,484.9	135.2	959.4	905.2	54.24	17.688
12,635.0	9,806.9	11,453.9	8,983.0	29.5	24.1	30.36	-2,519.9	134.9	959.4	904.7	54.67	17.548
12,700.0	9,807.0	11,518.9	8,983.0	29.9	24.5	30.36	-2,584.9	134.4	959.4	903.9	55.48	17.294
12,730.0	9,807.0	11,548.9	8,983.0	30.0	24.7	30.36	-2,614.9	134.1	959.4	903.5	55.85	17.178
12,800.0	9,807.0	11,618.9	8,983.1	30.4	25.1	30.36	-2,684.9	133.6	959.4	902.7	56.73	16.912
12,825.0	9,807.0	11,643.9	8,983.1	30.5	25.2	30.36	-2,709.9	133.3	959.4	902.3	57.04	16.818
12,900.0	9,807.1	11,718.9	8,983.1	30.9	25.7	30.36	-2,784.9	132.7	959.4	901.4	57.99	16.543
12,920.0	9,807.1	11,738.9	8,983.1	31.0	25.8	30.36	-2,804.9	132.6	959.4	901.1	58.25	16.470
13,000.0	9,807.1	11,818.9	8,983.2	31.5	26.3	30.36	-2,884.9	131.9	959.4	900.1	59.27	16.185
13,015.0	9,807.1	11,833.9	8,983.2	31.6	26.4	30.36	-2,899.9	131.8	959.4	899.9	59.47	16.132
13,100.0	9,807.1	11,918.9	8,983.2	32.0	27.0	30.36	-2,984.9	131.1	959.4	898.8	60.57	15.839
13,110.0	9,807.1	11,928.9	8,983.2	32.1	27.0	30.36	-2,994.9	131.0	959.4	898.7	60.70	15.805
13,200.0	9,807.2	12,018.9	8,983.3	32.6	27.6	30.36	-3,084.9	130.2	959.4	897.5	61.87	15.505
13,205.0	9,807.2	12,023.9	8,983.3	32.6	27.6	30.36	-3,089.9	130.2	959.4	897.4	61.94	15.489
13,300.0	9,807.2	12,118.9	8,983.3	33.2	28.3	30.36	-3,184.8	129.4	959.3	896.2	63.19	15.182
13,395.0	9,807.2	12,213.9	8,983.3	33.8	28.9	30.36	-3,279.8	128.6	959.3	894.9	64.45	14.885
13,400.0	9,807.2	12,218.9	8,983.3	33.8	28.9	30.36	-3,284.8	128.6	959.3	894.8	64.52	14.869
13,490.0	9,807.3	12,308.9	8,983.4	34.3	29.5	30.36	-3,374.8	127.9	959.3	893.6	65.72	14.597
13,500.0	9,807.3	12,318.9	8,983.4	34.4	29.6	30.36	-3,384.8	127.8	959.3	893.5	65.86	14.567
13,585.0	9,807.3	12,403.9	8,983.4	34.9	30.2	30.36	-3,469.8	127.1	959.3	892.3	67.00	14.318
13,600.0	9,807.3	12,418.9	8,983.4	35.0	30.3	30.36	-3,484.8	126.9	959.3	892.1	67.20	14.275
13,680.0	9,807.4	12,498.9	8,983.5	35.5	30.8	30.36	-3,564.8	126.3	959.3	891.0	68.29	14.048
13,700.0	9,807.4	12,518.9	8,983.5	35.6	30.9	30.36	-3,584.8	126.1	959.3	890.8	68.56	13.993
13,775.0	9,807.4	12,593.9	8,983.5	36.1	31.5	30.36	-3,659.8	125.5	959.3	889.7	69.58	13.787
13,800.0	9,807.4	12,618.9	8,983.5	36.2	31.6	30.36	-3,684.8	125.3	959.3	889.4	69.92	13.719
13,870.0	9,807.4	12,688.9	8,983.6	36.7	32.1	30.36	-3,754.8	124.7	959.3	888.4	70.88	13.534
13,900.0	9,807.4	12,718.9	8,983.6	36.9	32.3	30.36	-3,784.8	124.5	959.3	888.0	71.30	13.455
13,965.0	9,807.5	12,783.9	8,983.6	37.3	32.8	30.36	-3,849.8	123.9	959.3	887.1	72.19	13.288
14,000.0	9,807.5	12,818.9	8,983.6	37.5	33.0	30.36	-3,884.8	123.6	959.3	886.6	72.68	13.200
14,060.0	9,807.5	12,878.9	8,983.7	37.9	33.4	30.36	-3,944.8	123.1	959.3	885.8	73.51	13.050
14,100.0	9,807.5	12,918.9	8,983.7	38.1	33.7	30.36	-3,984.8	122.8	959.3	885.2	74.06	12.952
14,155.0	9,807.5	12,973.9	8,983.7	38.5	34.1	30.36	-4,039.8	122.4	959.3	884.5	74.83	12.820
14,200.0	9,807.6	13,018.9	8,983.7	38.8	34.4	30.36	-4,084.8	122.0	959.3	883.8	75.46	12.713
14,250.0	9,807.6	13,068.9	8,983.7	39.1	34.8	30.36	-4,134.8	121.6	959.3	883.1	76.16	12.596
14,300.0	9,807.6	13,118.9	8,983.8	39.4	35.1	30.36	-4,184.8	121.2	959.3	882.4	76.86	12.482
14,345.0	9,807.6	13,163.9	8,983.8	39.7	35.4	30.36	-4,229.8	120.8	959.3	881.8	77.49	12.380
14,400.0	9,807.6	13,218.9	8,983.8	40.1	35.8	30.36	-4,284.8	120.3	959.3	881.0	78.26	12.257
14,440.0	9,807.7	13,258.9	8,983.8	40.3	36.1	30.36	-4,324.8	120.0	959.3	880.4	78.83	12.169

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
14,500.0	9,807.7	13,318.9	8,983.9	40.7	36.5	30.36	-4,384.8	119.5	959.3	879.6	79.67	12.040
14,535.0	9,807.7	13,353.9	8,983.9	41.0	36.8	30.36	-4,419.8	119.2	959.3	879.1	80.17	11.966
14,600.0	9,807.7	13,418.9	8,983.9	41.4	37.2	30.36	-4,484.8	118.7	959.3	878.2	81.09	11.830
14,630.0	9,807.7	13,448.9	8,983.9	41.6	37.4	30.36	-4,514.8	118.4	959.3	877.7	81.52	11.768
14,700.0	9,807.8	13,518.9	8,984.0	42.0	37.9	30.36	-4,584.8	117.9	959.3	876.7	82.51	11.626
14,725.0	9,807.8	13,543.9	8,984.0	42.2	38.1	30.36	-4,609.8	117.7	959.3	876.4	82.87	11.576
14,800.0	9,807.8	13,618.9	8,984.0	42.7	38.7	30.36	-4,684.8	117.0	959.2	875.3	83.94	11.428
14,820.0	9,807.8	13,638.9	8,984.0	42.8	38.8	30.36	-4,704.8	116.9	959.2	875.0	84.23	11.389
14,900.0	9,807.8	13,718.9	8,984.0	43.4	39.4	30.36	-4,784.8	116.2	959.2	873.9	85.37	11.236
14,915.0	9,807.8	13,733.9	8,984.1	43.5	39.5	30.36	-4,799.8	116.1	959.2	873.7	85.59	11.208
15,000.0	9,807.9	13,818.9	8,984.1	44.1	40.1	30.36	-4,884.8	115.4	959.2	872.4	86.81	11.050
15,010.0	9,807.9	13,828.9	8,984.1	44.1	40.2	30.36	-4,894.8	115.3	959.2	872.3	86.95	11.032
15,100.0	9,807.9	13,918.9	8,984.1	44.7	40.8	30.36	-4,984.8	114.6	959.2	871.0	88.25	10.870
15,105.0	9,807.9	13,923.9	8,984.1	44.8	40.8	30.36	-4,989.8	114.5	959.2	870.9	88.32	10.861
15,200.0	9,808.0	14,018.9	8,984.2	45.4	41.5	30.36	-5,084.8	113.7	959.2	869.5	89.69	10.695
15,295.0	9,808.0	14,113.9	8,984.2	46.1	42.2	30.36	-5,179.8	112.9	959.2	868.2	91.06	10.533
15,300.0	9,808.0	14,118.9	8,984.2	46.1	42.3	30.36	-5,184.8	112.9	959.2	868.1	91.14	10.525
15,390.0	9,808.0	14,208.9	8,984.3	46.7	42.9	30.36	-5,274.8	112.2	959.2	866.8	92.44	10.376
15,400.0	9,808.0	14,218.9	8,984.3	46.8	43.0	30.36	-5,284.8	112.1	959.2	866.6	92.59	10.360
15,485.0	9,808.1	14,303.9	8,984.3	47.4	43.6	30.36	-5,369.8	111.4	959.2	865.4	93.82	10.223
15,500.0	9,808.1	14,318.9	8,984.3	47.5	43.7	30.36	-5,384.8	111.2	959.2	865.2	94.04	10.200
15,580.0	9,808.1	14,398.9	8,984.4	48.0	44.3	30.36	-5,464.8	110.6	959.2	864.0	95.21	10.075
15,600.0	9,808.1	14,418.9	8,984.4	48.2	44.4	30.36	-5,484.8	110.4	959.2	863.7	95.50	10.044
15,675.0	9,808.1	14,493.9	8,984.4	48.7	45.0	30.36	-5,559.8	109.8	959.2	862.6	96.60	9.930
15,700.0	9,808.1	14,518.9	8,984.4	48.9	45.2	30.36	-5,584.8	109.6	959.2	862.2	96.96	9.893
15,770.0	9,808.2	14,588.9	8,984.5	49.4	45.7	30.36	-5,654.8	109.0	959.2	861.2	97.99	9.789
15,800.0	9,808.2	14,618.9	8,984.5	49.6	45.9	30.36	-5,684.8	108.8	959.2	860.8	98.42	9.745
15,865.0	9,808.2	14,683.9	8,984.5	50.0	46.4	30.36	-5,749.8	108.2	959.2	859.8	99.38	9.652
15,900.0	9,808.2	14,718.9	8,984.5	50.3	46.6	30.36	-5,784.8	107.9	959.2	859.3	99.89	9.602
15,960.0	9,808.3	14,778.9	8,984.5	50.7	47.1	30.36	-5,844.8	107.4	959.2	858.4	100.77	9.518
16,000.0	9,808.3	14,818.9	8,984.6	51.0	47.4	30.36	-5,884.8	107.1	959.2	857.8	101.36	9.463
16,055.0	9,808.3	14,873.9	8,984.6	51.4	47.8	30.36	-5,939.8	106.7	959.2	857.0	102.17	9.388
16,100.0	9,808.3	14,918.9	8,984.6	51.7	48.1	30.36	-5,984.8	106.3	959.2	856.3	102.83	9.327
16,150.0	9,808.3	14,968.9	8,984.6	52.0	48.5	30.36	-6,034.8	105.9	959.2	855.6	103.57	9.261
16,200.0	9,808.3	15,018.9	8,984.7	52.4	48.8	30.36	-6,084.8	105.5	959.2	854.9	104.31	9.196
16,245.0	9,808.4	15,063.9	8,984.7	52.7	49.1	30.36	-6,129.7	105.1	959.2	854.2	104.97	9.137
16,300.0	9,808.4	15,118.9	8,984.7	53.1	49.6	30.36	-6,184.7	104.6	959.2	853.4	105.78	9.067
16,340.0	9,808.4	15,158.9	8,984.7	53.4	49.8	30.36	-6,224.7	104.3	959.1	852.8	106.37	9.017
16,400.0	9,808.4	15,218.9	8,984.7	53.8	50.3	30.36	-6,284.7	103.8	959.1	851.9	107.26	8.942
16,435.0	9,808.4	15,253.9	8,984.8	54.0	50.5	30.36	-6,319.7	103.5	959.1	851.4	107.78	8.899
16,500.0	9,808.5	15,318.9	8,984.8	54.5	51.0	30.36	-6,384.7	103.0	959.1	850.4	108.74	8.820
16,530.0	9,808.5	15,348.9	8,984.8	54.7	51.2	30.36	-6,414.7	102.7	959.1	849.9	109.19	8.784
16,600.0	9,808.5	15,418.9	8,984.8	55.2	51.8	30.37	-6,484.7	102.2	959.1	848.9	110.23	8.701
16,625.0	9,808.5	15,443.9	8,984.9	55.4	51.9	30.37	-6,509.7	102.0	959.1	848.5	110.60	8.672
16,700.0	9,808.5	15,518.9	8,984.9	55.9	52.5	30.37	-6,584.7	101.3	959.1	847.4	111.71	8.586
16,720.0	9,808.5	15,538.9	8,984.9	56.1	52.7	30.37	-6,604.7	101.2	959.1	847.1	112.01	8.563
16,800.0	9,808.6	15,618.9	8,984.9	56.6	53.2	30.37	-6,684.7	100.5	959.1	845.9	113.20	8.473
16,815.0	9,808.6	15,633.9	8,984.9	56.7	53.4	30.37	-6,699.7	100.4	959.1	845.7	113.42	8.456
16,900.0	9,808.6	15,718.9	8,985.0	57.4	54.0	30.37	-6,784.7	99.7	959.1	844.4	114.69	8.363
16,910.0	9,808.6	15,728.9	8,985.0	57.4	54.1	30.37	-6,794.7	99.6	959.1	844.3	114.84	8.352
17,000.0	9,808.7	15,818.9	8,985.0	58.1	54.7	30.37	-6,884.7	98.9	959.1	842.9	116.18	8.255

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	
17,005.0	9,808.7	15,823.9	8,985.0	58.1	54.8	30.37	-6,889.7	98.8	959.1	842.9	116.25	8.250
17,100.0	9,808.7	15,918.9	8,985.1	58.8	55.5	30.37	-6,984.7	98.0	959.1	841.4	117.67	8.151
17,195.0	9,808.7	16,013.9	8,985.1	59.5	56.2	30.37	-7,079.7	97.2	959.1	840.0	119.09	8.053
17,200.0	9,808.7	16,018.9	8,985.1	59.5	56.2	30.37	-7,084.7	97.2	959.1	839.9	119.17	8.048
17,290.0	9,808.8	16,108.9	8,985.2	60.2	56.9	30.37	-7,174.7	96.5	959.1	838.6	120.51	7.958
17,300.0	9,808.8	16,118.9	8,985.2	60.2	56.9	30.37	-7,184.7	96.4	959.1	838.4	120.66	7.948
17,385.0	9,808.8	16,203.9	8,985.2	60.8	57.6	30.37	-7,269.7	95.7	959.1	837.1	121.94	7.865
17,400.0	9,808.8	16,218.9	8,985.2	61.0	57.7	30.37	-7,284.7	95.6	959.1	836.9	122.16	7.851
17,480.0	9,808.8	16,298.9	8,985.3	61.5	58.3	30.37	-7,364.7	94.9	959.1	835.7	123.36	7.775
17,500.0	9,808.9	16,318.9	8,985.3	61.7	58.4	30.37	-7,384.7	94.7	959.1	835.4	123.66	7.756
17,575.0	9,808.9	16,393.9	8,985.3	62.2	59.0	30.37	-7,459.7	94.1	959.1	834.3	124.78	7.686
17,600.0	9,808.9	16,418.9	8,985.3	62.4	59.2	30.37	-7,484.7	93.9	959.1	833.9	125.16	7.663
17,670.0	9,808.9	16,488.9	8,985.3	62.9	59.7	30.37	-7,554.7	93.3	959.1	832.9	126.21	7.599
17,700.0	9,808.9	16,518.9	8,985.4	63.1	59.9	30.37	-7,584.7	93.1	959.1	832.4	126.66	7.572
17,765.0	9,809.0	16,583.9	8,985.4	63.6	60.4	30.37	-7,649.7	92.5	959.1	831.4	127.64	7.514
17,800.0	9,809.0	16,618.9	8,985.4	63.9	60.7	30.37	-7,684.7	92.2	959.1	830.9	128.16	7.483
17,860.0	9,809.0	16,678.9	8,985.4	64.3	61.1	30.37	-7,744.7	91.8	959.0	830.0	129.07	7.431
17,900.0	9,809.0	16,718.9	8,985.5	64.6	61.4	30.37	-7,784.7	91.4	959.0	829.4	129.67	7.396
17,955.0	9,809.0	16,773.9	8,985.5	65.0	61.8	30.37	-7,839.7	91.0	959.0	828.5	130.50	7.349
18,000.0	9,809.1	16,818.9	8,985.5	65.3	62.2	30.37	-7,884.7	90.6	959.0	827.9	131.17	7.311
18,050.0	9,809.1	16,868.9	8,985.5	65.7	62.5	30.37	-7,934.7	90.2	959.0	827.1	131.93	7.269
18,100.0	9,809.1	16,918.9	8,985.5	66.0	62.9	30.37	-7,984.7	89.8	959.0	826.4	132.68	7.228
18,145.0	9,809.1	16,963.9	8,985.6	66.4	63.2	30.37	-8,029.7	89.4	959.0	825.7	133.36	7.191
18,200.0	9,809.1	17,018.9	8,985.6	66.8	63.7	30.37	-8,084.7	88.9	959.0	824.8	134.19	7.147
18,240.0	9,809.1	17,058.9	8,985.6	67.1	64.0	30.37	-8,124.7	88.6	959.0	824.2	134.79	7.115
18,300.0	9,809.2	17,118.9	8,985.6	67.5	64.4	30.37	-8,184.7	88.1	959.0	823.3	135.70	7.067
18,335.0	9,809.2	17,153.9	8,985.7	67.8	64.7	30.37	-8,219.7	87.8	959.0	822.8	136.23	7.040
18,400.0	9,809.2	17,218.9	8,985.7	68.2	65.2	30.37	-8,284.7	87.3	959.0	821.8	137.21	6.989
18,430.0	9,809.2	17,248.9	8,985.7	68.4	65.4	30.37	-8,314.7	87.0	959.0	821.3	137.66	6.966
18,500.0	9,809.2	17,318.9	8,985.7	69.0	65.9	30.37	-8,384.7	86.5	959.0	820.3	138.72	6.913
18,525.0	9,809.3	17,343.9	8,985.7	69.1	66.1	30.37	-8,409.7	86.3	959.0	819.9	139.10	6.894
18,600.0	9,809.3	17,418.9	8,985.8	69.7	66.6	30.37	-8,484.7	85.6	959.0	818.8	140.23	6.839
18,620.0	9,809.3	17,438.9	8,985.8	69.8	66.8	30.37	-8,504.7	85.5	959.0	818.5	140.53	6.824
18,700.0	9,809.3	17,518.9	8,985.8	70.4	67.4	30.37	-8,584.7	84.8	959.0	817.2	141.75	6.766
18,715.0	9,809.3	17,533.9	8,985.8	70.5	67.5	30.37	-8,599.7	84.7	959.0	817.0	141.97	6.755
18,800.0	9,809.4	17,618.9	8,985.9	71.2	68.1	30.37	-8,684.7	84.0	959.0	815.7	143.26	6.694
18,810.0	9,809.4	17,628.9	8,985.9	71.2	68.2	30.37	-8,694.7	83.9	959.0	815.6	143.41	6.687
18,900.0	9,809.4	17,718.9	8,985.9	71.9	68.9	30.37	-8,784.7	83.2	959.0	814.2	144.77	6.624
18,905.0	9,809.4	17,723.9	8,985.9	71.9	68.9	30.37	-8,789.7	83.1	959.0	814.1	144.85	6.620
19,000.0	9,809.4	17,818.9	8,986.0	72.6	69.6	30.37	-8,884.7	82.3	959.0	812.7	146.29	6.555
19,095.0	9,809.5	17,913.9	8,986.0	73.3	70.4	30.37	-8,979.7	81.6	959.0	811.2	147.73	6.491
19,100.0	9,809.5	17,918.9	8,986.0	73.4	70.4	30.37	-8,984.7	81.5	959.0	811.2	147.81	6.488
19,190.0	9,809.5	18,008.9	8,986.1	74.0	71.1	30.37	-9,074.6	80.8	959.0	809.8	149.17	6.428
19,200.0	9,809.5	18,018.9	8,986.1	74.1	71.1	30.37	-9,084.6	80.7	959.0	809.6	149.33	6.422
19,285.0	9,809.6	18,103.9	8,986.1	74.7	71.8	30.37	-9,169.6	80.0	959.0	808.3	150.62	6.367
19,300.0	9,809.6	18,118.9	8,986.1	74.8	71.9	30.37	-9,184.6	79.9	959.0	808.1	150.84	6.357
19,380.0	9,809.6	18,198.9	8,986.1	75.4	72.5	30.37	-9,264.6	79.2	958.9	806.9	152.06	6.306
19,400.0	9,809.6	18,218.9	8,986.2	75.6	72.6	30.37	-9,284.6	79.0	958.9	806.6	152.36	6.294
19,475.0	9,809.6	18,293.9	8,986.2	76.1	73.2	30.37	-9,359.6	78.4	958.9	805.4	153.50	6.247
19,500.0	9,809.6	18,318.9	8,986.2	76.3	73.4	30.37	-9,384.6	78.2	958.9	805.1	153.88	6.232
19,570.0	9,809.7	18,388.9	8,986.2	76.8	73.9	30.37	-9,454.6	77.6	958.9	804.0	154.95	6.189

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
19,600.0	9,809.7	18,418.9	8,986.2	77.1	74.2	30.37	-9,484.6	77.4	958.9	803.5	155.40	6.171
19,665.0	9,809.7	18,483.9	8,986.3	77.5	74.6	30.37	-9,549.6	76.8	958.9	802.5	156.39	6.132
19,700.0	9,809.7	18,518.9	8,986.3	77.8	74.9	30.37	-9,584.6	76.6	958.9	802.0	156.93	6.111
19,760.0	9,809.7	18,578.9	8,986.3	78.2	75.4	30.37	-9,644.6	76.1	958.9	801.1	157.84	6.075
19,800.0	9,809.8	18,618.9	8,986.3	78.5	75.7	30.37	-9,684.6	75.7	958.9	800.5	158.45	6.052
19,855.0	9,809.8	18,673.9	8,986.4	78.9	76.1	30.37	-9,739.6	75.3	958.9	799.6	159.29	6.020
19,900.0	9,809.8	18,718.9	8,986.4	79.3	76.4	30.37	-9,784.6	74.9	958.9	798.9	159.97	5.994
19,950.0	9,809.8	18,768.9	8,986.4	79.6	76.8	30.37	-9,834.6	74.5	958.9	798.2	160.73	5.966
20,000.0	9,809.8	18,818.9	8,986.4	80.0	77.2	30.37	-9,884.6	74.1	958.9	797.4	161.49	5.938
20,045.0	9,809.9	18,863.9	8,986.5	80.4	77.5	30.37	-9,929.6	73.7	958.9	796.7	162.18	5.913
20,100.0	9,809.9	18,918.9	8,986.5	80.8	77.9	30.37	-9,984.6	73.2	958.9	795.9	163.02	5.882
20,140.0	9,809.9	18,958.9	8,986.5	81.1	78.2	30.37	-10,024.6	72.9	958.9	795.3	163.63	5.860
20,200.0	9,809.9	19,018.9	8,986.5	81.5	78.7	30.37	-10,084.6	72.4	958.9	794.4	164.54	5.828
20,235.0	9,809.9	19,053.9	8,986.5	81.8	78.9	30.37	-10,119.6	72.1	958.9	793.8	165.08	5.809
20,300.0	9,810.0	19,118.9	8,986.6	82.2	79.4	30.37	-10,184.6	71.6	958.9	792.8	166.07	5.774
20,330.0	9,810.0	19,148.9	8,986.6	82.5	79.6	30.37	-10,214.6	71.3	958.9	792.4	166.53	5.758
20,400.0	9,810.0	19,218.9	8,986.6	83.0	80.2	30.37	-10,284.6	70.8	958.9	791.3	167.60	5.721
20,425.0	9,810.0	19,243.9	8,986.6	83.2	80.4	30.37	-10,309.6	70.6	958.9	790.9	167.98	5.708
20,500.0	9,810.0	19,318.9	8,986.7	83.7	80.9	30.37	-10,384.6	69.9	958.9	789.8	169.12	5.670
20,520.0	9,810.0	19,338.9	8,986.7	83.9	81.1	30.37	-10,404.6	69.8	958.9	789.4	169.43	5.659
20,600.0	9,810.1	19,418.9	8,986.7	84.5	81.7	30.37	-10,484.6	69.1	958.9	788.2	170.65	5.619
20,615.0	9,810.1	19,433.9	8,986.7	84.6	81.8	30.37	-10,499.6	69.0	958.9	788.0	170.88	5.611
20,700.0	9,810.1	19,518.9	8,986.8	85.2	82.4	30.37	-10,584.6	68.3	958.9	786.7	172.18	5.569
20,710.0	9,810.1	19,528.9	8,986.8	85.3	82.5	30.37	-10,594.6	68.2	958.9	786.5	172.33	5.564
20,800.0	9,810.2	19,618.9	8,986.8	86.0	83.2	30.37	-10,684.6	67.5	958.9	785.1	173.71	5.520
20,805.0	9,810.2	19,623.9	8,986.8	86.0	83.2	30.37	-10,689.6	67.4	958.9	785.1	173.78	5.518
20,900.0	9,810.2	19,718.9	8,986.9	86.7	83.9	30.37	-10,784.6	66.6	958.8	783.6	175.23	5.472
20,995.0	9,810.2	19,813.9	8,986.9	87.4	84.7	30.37	-10,879.6	65.9	958.8	782.2	176.69	5.427
21,000.0	9,810.2	19,818.9	8,986.9	87.4	84.7	30.37	-10,884.6	65.8	958.8	782.1	176.76	5.424
21,090.0	9,810.3	19,908.9	8,986.9	88.1	85.4	30.37	-10,974.6	65.1	958.8	780.7	178.14	5.382
21,100.0	9,810.3	19,918.9	8,986.9	88.2	85.5	30.37	-10,984.6	65.0	958.8	780.5	178.29	5.378
21,185.0	9,810.3	20,003.9	8,987.0	88.8	86.1	30.37	-11,069.6	64.3	958.8	779.2	179.59	5.339
21,200.0	9,810.3	20,018.9	8,987.0	88.9	86.2	30.37	-11,084.6	64.2	958.8	779.0	179.82	5.332
21,280.0	9,810.3	20,098.9	8,987.0	89.5	86.8	30.37	-11,164.6	63.5	958.8	777.8	181.05	5.296
21,300.0	9,810.3	20,118.9	8,987.0	89.7	87.0	30.37	-11,184.6	63.3	958.8	777.5	181.35	5.287
21,375.0	9,810.4	20,193.9	8,987.1	90.2	87.5	30.38	-11,259.6	62.7	958.8	776.3	182.50	5.254
21,400.0	9,810.4	20,218.9	8,987.1	90.4	87.7	30.38	-11,284.6	62.5	958.8	775.9	182.89	5.243
21,470.0	9,810.4	20,288.9	8,987.1	91.0	88.2	30.38	-11,354.6	61.9	958.8	774.9	183.96	5.212
21,500.0	9,810.4	20,318.9	8,987.1	91.2	88.5	30.38	-11,384.6	61.7	958.8	774.4	184.42	5.199
21,565.0	9,810.5	20,383.9	8,987.2	91.7	89.0	30.38	-11,449.6	61.1	958.8	773.4	185.41	5.171
21,600.0	9,810.5	20,418.9	8,987.2	91.9	89.2	30.38	-11,484.6	60.9	958.8	772.9	185.95	5.156
21,660.0	9,810.5	20,478.9	8,987.2	92.4	89.7	30.38	-11,544.6	60.4	958.8	771.9	186.87	5.131
21,700.0	9,810.5	20,518.9	8,987.2	92.7	90.0	30.38	-11,584.6	60.0	958.8	771.3	187.48	5.114
21,755.0	9,810.5	20,573.9	8,987.3	93.1	90.4	30.38	-11,639.6	59.6	958.8	770.5	188.32	5.091
21,800.0	9,810.5	20,618.9	8,987.3	93.4	90.7	30.38	-11,684.6	59.2	958.8	769.8	189.01	5.073
21,850.0	9,810.6	20,668.9	8,987.3	93.8	91.1	30.38	-11,734.6	58.8	958.8	769.0	189.78	5.052
21,900.0	9,810.6	20,718.9	8,987.3	94.2	91.5	30.38	-11,784.6	58.4	958.8	768.2	190.55	5.032
21,945.0	9,810.6	20,763.9	8,987.3	94.5	91.8	30.38	-11,829.6	58.0	958.8	767.5	191.24	5.014
22,000.0	9,810.6	20,818.9	8,987.4	94.9	92.3	30.38	-11,884.6	57.6	958.8	766.7	192.08	4.992
22,040.0	9,810.6	20,858.9	8,987.4	95.2	92.6	30.38	-11,924.6	57.2	958.8	766.1	192.69	4.976
22,100.0	9,810.7	20,918.9	8,987.4	95.7	93.0	30.38	-11,984.6	56.7	958.8	765.2	193.62	4.952

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
22,135.0	9,810.7	20,953.9	8,987.4	95.9	93.3	30.38	-12,019.5	56.4	958.8	764.6	194.15	4.938
22,200.0	9,810.7	21,018.9	8,987.5	96.4	93.8	30.38	-12,084.5	55.9	958.8	763.6	195.15	4.913
22,230.0	9,810.7	21,048.9	8,987.5	96.6	94.0	30.38	-12,114.5	55.7	958.8	763.2	195.61	4.901
22,300.0	9,810.7	21,118.9	8,987.5	97.2	94.5	30.38	-12,184.5	55.1	958.8	762.1	196.68	4.875
22,325.0	9,810.7	21,143.9	8,987.5	97.3	94.7	30.38	-12,209.5	54.9	958.8	761.7	197.07	4.865
22,400.0	9,810.8	21,218.9	8,987.6	97.9	95.3	30.38	-12,284.5	54.3	958.7	760.5	198.22	4.837
22,420.0	9,810.8	21,238.9	8,987.6	98.1	95.4	30.38	-12,304.5	54.1	958.7	760.2	198.53	4.829
22,500.0	9,810.8	21,318.9	8,987.6	98.7	96.0	30.38	-12,384.5	53.4	958.7	759.0	199.76	4.800
22,515.0	9,810.8	21,333.9	8,987.6	98.8	96.1	30.38	-12,399.5	53.3	958.7	758.8	199.99	4.794
22,600.0	9,810.9	21,418.9	8,987.6	99.4	96.8	30.38	-12,484.5	52.6	958.7	757.4	201.29	4.763
22,610.0	9,810.9	21,428.9	8,987.6	99.5	96.9	30.38	-12,494.5	52.5	958.7	757.3	201.44	4.759
22,700.0	9,810.9	21,518.9	8,987.7	100.2	97.5	30.38	-12,584.5	51.8	958.7	755.9	202.83	4.727
22,705.0	9,810.9	21,523.9	8,987.7	100.2	97.6	30.38	-12,589.5	51.7	958.7	755.8	202.90	4.725
22,800.0	9,810.9	21,618.9	8,987.7	100.9	98.3	30.38	-12,684.5	50.9	958.7	754.4	204.36	4.691
22,895.0	9,811.0	21,713.9	8,987.8	101.6	99.0	30.38	-12,779.5	50.2	958.7	752.9	205.82	4.658
22,900.0	9,811.0	21,718.9	8,987.8	101.7	99.1	30.38	-12,784.5	50.1	958.7	752.8	205.90	4.656
22,990.0	9,811.0	21,808.9	8,987.8	102.3	99.7	30.38	-12,874.5	49.4	958.7	751.4	207.28	4.625
23,000.0	9,811.0	21,818.9	8,987.8	102.4	99.8	30.38	-12,884.5	49.3	958.7	751.3	207.44	4.622
23,085.0	9,811.0	21,903.9	8,987.9	103.0	100.5	30.38	-12,969.5	48.6	958.7	750.0	208.74	4.593
23,100.0	9,811.1	21,918.9	8,987.9	103.2	100.6	30.38	-12,984.5	48.5	958.7	749.7	208.98	4.588
23,180.0	9,811.1	21,998.9	8,987.9	103.8	101.2	30.38	-13,064.5	47.8	958.7	748.5	210.21	4.561
23,200.0	9,811.1	22,018.9	8,987.9	103.9	101.3	30.38	-13,084.5	47.6	958.7	748.2	210.51	4.554
23,275.0	9,811.1	22,093.9	8,988.0	104.5	101.9	30.38	-13,159.5	47.0	958.7	747.0	211.67	4.529
23,300.0	9,811.1	22,118.9	8,988.0	104.7	102.1	30.38	-13,184.5	46.8	958.7	746.6	212.05	4.521
23,370.0	9,811.2	22,188.9	8,988.0	105.2	102.6	30.38	-13,254.5	46.2	958.7	745.6	213.13	4.498
23,400.0	9,811.2	22,218.9	8,988.0	105.4	102.9	30.38	-13,284.5	46.0	958.7	745.1	213.59	4.488
23,465.0	9,811.2	22,283.9	8,988.0	105.9	103.3	30.38	-13,349.5	45.5	958.7	744.1	214.59	4.468
23,500.0	9,811.2	22,318.9	8,988.1	106.2	103.6	30.38	-13,384.5	45.2	958.7	743.5	215.13	4.456
23,560.0	9,811.2	22,378.9	8,988.1	106.6	104.1	30.38	-13,444.5	44.7	958.7	742.6	216.05	4.437
23,600.0	9,811.2	22,418.9	8,988.1	106.9	104.4	30.38	-13,484.5	44.3	958.7	742.0	216.67	4.425
23,655.0	9,811.3	22,473.9	8,988.1	107.3	104.8	30.38	-13,539.5	43.9	958.7	741.2	217.51	4.407
23,700.0	9,811.3	22,518.9	8,988.2	107.7	105.1	30.38	-13,584.5	43.5	958.7	740.5	218.21	4.393
23,750.0	9,811.3	22,568.9	8,988.2	108.0	105.5	30.38	-13,634.5	43.1	958.7	739.7	218.98	4.378
23,800.0	9,811.3	22,618.9	8,988.2	108.4	105.9	30.38	-13,684.5	42.7	958.7	738.9	219.75	4.363
23,845.0	9,811.3	22,663.9	8,988.2	108.8	106.2	30.38	-13,729.5	42.3	958.7	738.2	220.44	4.349
23,900.0	9,811.4	22,718.9	8,988.3	109.2	106.6	30.38	-13,784.5	41.9	958.7	737.4	221.28	4.332
23,940.0	9,811.4	22,758.9	8,988.3	109.5	106.9	30.38	-13,824.5	41.5	958.6	736.7	221.90	4.320
24,000.0	9,811.4	22,818.9	8,988.3	109.9	107.4	30.38	-13,884.5	41.0	958.6	735.8	222.82	4.302
24,035.0	9,811.4	22,853.9	8,988.3	110.2	107.7	30.38	-13,919.5	40.7	958.6	735.3	223.36	4.292
24,100.0	9,811.4	22,918.9	8,988.3	110.7	108.2	30.38	-13,984.5	40.2	958.6	734.3	224.36	4.273
24,130.0	9,811.5	22,948.9	8,988.4	110.9	108.4	30.38	-14,014.5	40.0	958.6	733.8	224.83	4.264
24,200.0	9,811.5	23,018.9	8,988.4	111.4	108.9	30.38	-14,084.5	39.4	958.6	732.7	225.91	4.244
24,225.0	9,811.5	23,043.9	8,988.4	111.6	109.1	30.38	-14,109.5	39.2	958.6	732.3	226.29	4.236
24,300.0	9,811.5	23,118.9	8,988.4	112.2	109.7	30.38	-14,184.5	38.6	958.6	731.2	227.45	4.215
24,320.0	9,811.5	23,138.9	8,988.4	112.3	109.8	30.38	-14,204.5	38.4	958.6	730.9	227.75	4.209
24,400.0	9,811.6	23,218.9	8,988.5	112.9	110.4	30.38	-14,284.5	37.7	958.6	729.6	228.99	4.186
24,415.0	9,811.6	23,233.9	8,988.5	113.0	110.5	30.38	-14,299.5	37.6	958.6	729.4	229.22	4.182
24,500.0	9,811.6	23,318.9	8,988.5	113.7	111.2	30.38	-14,384.5	36.9	958.6	728.1	230.53	4.158
24,510.0	9,811.6	23,328.9	8,988.5	113.8	111.3	30.38	-14,394.5	36.8	958.6	727.9	230.68	4.156
24,600.0	9,811.6	23,418.9	8,988.6	114.4	112.0	30.38	-14,484.5	36.1	958.6	726.5	232.07	4.131
24,605.0	9,811.6	23,423.9	8,988.6	114.5	112.0	30.38	-14,489.5	36.0	958.6	726.5	232.15	4.129

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
24,700.0	9,811.7	23,518.9	8,988.6	115.2	112.7	30.38	-14,584.5	35.3	958.6	725.0	233.61	4.103		
24,795.0	9,811.7	23,613.9	8,988.7	115.9	113.4	30.38	-14,679.5	34.5	958.6	723.5	235.08	4.078		
24,800.0	9,811.7	23,618.9	8,988.7	115.9	113.5	30.38	-14,684.5	34.4	958.6	723.4	235.15	4.076		
24,890.0	9,811.8	23,708.9	8,988.7	116.6	114.2	30.38	-14,774.5	33.7	958.6	722.0	236.54	4.053		
24,900.0	9,811.8	23,718.9	8,988.7	116.7	114.2	30.38	-14,784.5	33.6	958.6	721.9	236.69	4.050		
24,985.0	9,811.8	23,803.9	8,988.8	117.3	114.9	30.38	-14,869.4	32.9	958.6	720.6	238.01	4.028		
25,000.0	9,811.8	23,818.9	8,988.8	117.5	115.0	30.38	-14,884.4	32.8	958.6	720.3	238.24	4.024		
25,080.0	9,811.8	23,898.9	8,988.8	118.1	115.6	30.38	-14,964.4	32.1	958.6	719.1	239.47	4.003		
25,100.0	9,811.8	23,918.9	8,988.8	118.2	115.7	30.38	-14,984.4	31.9	958.6	718.8	239.78	3.998		
25,175.0	9,811.9	23,993.9	8,988.8	118.8	116.3	30.38	-15,059.4	31.3	958.6	717.6	240.94	3.979		
25,200.0	9,811.9	24,018.9	8,988.9	119.0	116.5	30.38	-15,084.4	31.1	958.6	717.2	241.32	3.972		
25,270.0	9,811.9	24,088.9	8,988.9	119.5	117.0	30.38	-15,154.4	30.5	958.6	716.2	242.40	3.954		
25,300.0	9,811.9	24,118.9	8,988.9	119.7	117.3	30.38	-15,184.4	30.3	958.6	715.7	242.86	3.947		
25,365.0	9,811.9	24,183.9	8,988.9	120.2	117.8	30.38	-15,249.4	29.8	958.6	714.7	243.87	3.931		
25,385.3	9,811.9	24,204.2	8,988.9	120.4	117.9	30.38	-15,269.8	29.6	958.6	714.4	244.18	3.926		
25,400.0	9,812.0	24,218.9	8,989.0	120.5	118.0	30.38	-15,284.4	29.5	958.6	714.1	244.41	3.922		
25,460.0	9,812.0	24,278.9	8,989.0	120.9	118.5	30.38	-15,344.4	29.0	958.5	713.2	245.33	3.907		
25,500.0	9,812.0	24,318.9	8,989.0	121.2	118.8	30.38	-15,384.4	28.6	958.5	712.6	245.95	3.897		
25,502.0	9,812.0	24,320.8	8,989.0	121.2	118.8	30.38	-15,386.4	28.6	958.5	712.6	245.98	3.897		
25,515.5	9,812.0	24,320.8	8,989.0	121.3	118.8	30.38	-15,386.4	28.6	958.6	712.6	246.05	3.896 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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	4.0	4.0	3.0	3.0	179.08	-150.1	2.4	150.1				
95.0	95.0	99.0	99.0	3.0	3.0	179.08	-150.1	2.4	150.1	144.1	6.04	24.862	
100.0	100.0	104.0	104.0	3.0	3.0	179.08	-150.1	2.4	150.1	144.1	6.04	24.837	
190.0	190.0	194.0	194.0	3.1	3.1	179.08	-150.1	2.4	150.1	143.9	6.27	23.961	
200.0	200.0	204.0	204.0	3.1	3.2	179.08	-150.1	2.4	150.1	143.8	6.30	23.837	
285.0	285.0	289.0	289.0	3.3	3.3	179.08	-150.1	2.4	150.1	143.6	6.51	23.070	
300.0	300.0	304.0	304.0	3.3	3.3	179.08	-150.1	2.4	150.1	143.6	6.55	22.926	
380.0	380.0	384.0	384.0	3.4	3.4	179.08	-150.1	2.4	150.1	143.4	6.74	22.260	
400.0	400.0	404.0	404.0	3.4	3.4	179.08	-150.1	2.4	150.1	143.3	6.80	22.089	
475.0	475.0	479.0	479.0	3.5	3.5	179.08	-150.1	2.4	150.1	143.1	6.98	21.510	
500.0	500.0	504.0	504.0	3.5	3.5	179.08	-150.1	2.4	150.1	143.1	7.04	21.316	
570.0	570.0	574.0	574.0	3.6	3.6	179.08	-150.1	2.4	150.1	142.9	7.21	20.814	
600.0	600.0	604.0	604.0	3.6	3.6	179.08	-150.1	2.4	150.1	142.8	7.29	20.599	
665.0	665.0	669.0	669.0	3.7	3.7	179.08	-150.1	2.4	150.1	142.7	7.44	20.165	
700.0	700.0	704.0	704.0	3.8	3.8	179.08	-150.1	2.4	150.1	142.6	7.53	19.932	
760.0	760.0	764.0	764.0	3.8	3.8	179.08	-150.1	2.4	150.1	142.4	7.68	19.558	
800.0	800.0	804.0	804.0	3.9	3.9	179.08	-150.1	2.4	150.1	142.3	7.77	19.311	
855.0	855.0	859.0	859.0	4.0	4.0	179.08	-150.1	2.4	150.1	142.2	7.91	18.989	
900.0	900.0	904.0	904.0	4.0	4.0	179.08	-150.1	2.4	150.1	142.1	8.02	18.729	
950.0	950.0	954.0	954.0	4.1	4.1	179.08	-150.1	2.4	150.1	142.0	8.13	18.454	
1,000.0	1,000.0	1,004.0	1,004.0	4.1	4.1	179.08	-150.1	2.4	150.1	141.9	8.26	18.184	
1,045.0	1,045.0	1,049.0	1,049.0	4.2	4.2	179.08	-150.1	2.4	150.1	141.8	8.36	17.951	
1,100.0	1,100.0	1,104.0	1,104.0	4.2	4.3	179.08	-150.1	2.4	150.1	141.6	8.50	17.671	
1,140.0	1,140.0	1,144.0	1,144.0	4.3	4.3	179.08	-150.1	2.4	150.1	141.5	8.59	17.476	
1,200.0	1,200.0	1,204.0	1,204.0	4.4	4.4	179.08	-150.1	2.4	150.1	141.4	8.73	17.188	
1,235.0	1,235.0	1,239.0	1,239.0	4.4	4.4	179.08	-150.1	2.4	150.1	141.3	8.82	17.027	
1,300.0	1,300.0	1,304.0	1,304.0	4.5	4.5	179.08	-150.1	2.4	150.1	141.1	8.97	16.733	
1,330.0	1,330.0	1,334.0	1,334.0	4.5	4.5	179.08	-150.1	2.4	150.1	141.1	9.04	16.602	
1,400.0	1,400.0	1,404.0	1,404.0	4.6	4.6	179.08	-150.1	2.4	150.1	140.9	9.21	16.302	
1,425.0	1,425.0	1,429.0	1,429.0	4.6	4.6	179.08	-150.1	2.4	150.1	140.9	9.27	16.198	
1,500.0	1,500.0	1,504.2	1,504.2	4.7	4.7	179.08	-150.1	2.4	150.1	140.7	9.45	15.891	
1,520.0	1,520.0	1,524.9	1,524.9	4.7	4.8	128.34	-150.0	2.3	150.1	140.6	9.50	15.791	
1,600.0	1,600.0	1,607.9	1,607.9	4.9	4.9	129.39	-148.7	0.9	149.8	140.1	9.74	15.384	
1,615.0	1,615.0	1,623.5	1,623.4	4.9	4.9	129.73	-148.3	0.5	149.8	140.0	9.80	15.283	
1,700.0	1,699.8	1,711.2	1,711.0	5.1	5.1	132.58	-144.7	-3.2	149.5	139.4	10.14	14.741	
1,710.0	1,709.8	1,721.5	1,721.3	5.1	5.2	133.01	-144.1	-3.8	149.5	139.3	10.18	14.682	
1,711.1	1,710.9	1,722.6	1,722.4	5.1	5.2	133.06	-144.1	-3.8	149.5	139.3	10.19	14.675 CC, ES	
1,800.0	1,799.5	1,813.6	1,813.0	5.4	5.4	137.79	-138.2	-9.9	150.0	139.5	10.55	14.222	
1,805.0	1,804.4	1,818.7	1,818.1	5.4	5.4	138.10	-137.8	-10.3	150.1	139.5	10.57	14.201	
1,900.0	1,898.7	1,914.8	1,913.3	5.7	5.7	144.77	-129.3	-19.1	152.8	141.9	10.95	13.957	
1,995.0	1,992.5	2,008.1	2,005.5	6.0	5.9	152.27	-119.3	-29.5	159.3	148.0	11.28	14.128	
2,000.0	1,997.5	2,012.9	2,010.3	6.0	5.9	152.66	-118.7	-30.0	159.8	148.5	11.30	14.145	
2,090.0	2,085.8	2,099.9	2,096.2	6.3	6.1	159.41	-109.3	-39.8	171.3	159.6	11.70	14.642	
2,100.0	2,095.6	2,109.5	2,105.7	6.3	6.1	160.12	-108.2	-40.9	172.8	161.1	11.74	14.720	
2,185.0	2,178.5	2,191.0	2,186.2	6.6	6.4	165.77	-99.4	-50.1	188.7	176.5	12.14	15.537	
2,200.0	2,193.1	2,205.4	2,200.4	6.7	6.4	166.69	-97.8	-51.7	191.9	179.7	12.22	15.710	
2,280.0	2,270.7	2,281.7	2,275.7	6.9	6.6	171.19	-89.5	-60.3	210.1	197.5	12.56	16.725	
2,300.0	2,290.1	2,300.7	2,294.6	7.0	6.7	172.20	-87.4	-62.4	214.8	202.1	12.65	16.984	
2,375.0	2,362.9	2,372.3	2,365.2	7.2	6.9	175.63	-79.7	-70.5	233.0	220.0	12.99	17.942	
2,400.0	2,387.1	2,396.1	2,388.8	7.3	7.0	176.66	-77.1	-73.1	239.3	226.2	13.10	18.261	
2,470.0	2,455.0	2,462.9	2,454.7	7.5	7.2	179.28	-69.8	-80.6	257.1	243.6	13.44	19.133	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.0	2,484.1	2,491.5	2,483.0	7.6	7.3	-179.70	-66.7	-83.9	264.9	251.3	13.58	19.501	
2,565.0	2,547.2	2,553.5	2,544.2	7.9	7.5	-177.69	-59.9	-90.8	282.0	268.1	13.91	20.275	
2,600.0	2,581.2	2,586.9	2,577.2	8.0	7.6	-176.70	-56.3	-94.6	291.3	277.2	14.08	20.683	
2,660.0	2,639.4	2,644.1	2,633.7	8.2	7.8	-175.14	-50.1	-101.0	307.5	293.1	14.40	21.358	
2,700.0	2,678.2	2,682.3	2,671.4	8.4	8.0	-174.19	-45.9	-105.3	318.4	303.8	14.61	21.797	
2,755.0	2,731.6	2,734.8	2,723.2	8.6	8.1	-172.99	-40.2	-111.2	333.5	318.6	14.90	22.378	
2,800.0	2,775.2	2,777.7	2,765.6	8.8	8.3	-172.08	-35.6	-116.1	346.0	330.8	15.15	22.840	
2,850.0	2,823.7	2,825.4	2,812.7	9.0	8.5	-171.14	-30.4	-121.4	359.9	344.5	15.42	23.333	
2,900.0	2,872.3	2,873.1	2,859.9	9.2	8.6	-170.27	-25.2	-126.8	373.9	358.2	15.70	23.811	
2,945.0	2,915.9	2,916.0	2,902.2	9.3	8.8	-169.55	-20.5	-131.6	386.6	370.6	15.96	24.224	
3,000.0	2,969.3	2,968.5	2,954.1	9.6	9.0	-168.72	-14.8	-137.5	402.2	385.9	16.27	24.714	
3,040.0	3,008.1	3,006.6	2,991.8	9.7	9.1	-168.15	-10.7	-141.8	413.5	397.0	16.50	25.056	
3,100.0	3,066.3	3,063.8	3,048.3	10.0	9.4	-167.36	-4.4	-148.2	430.7	413.8	16.85	25.552	
3,135.0	3,100.3	3,097.2	3,081.3	10.1	9.5	-166.93	-0.8	-152.0	440.7	423.6	17.06	25.830	
3,200.0	3,163.3	3,159.2	3,142.5	10.4	9.7	-166.18	5.9	-159.0	459.3	441.9	17.45	26.329	
3,230.0	3,192.5	3,187.9	3,170.8	10.5	9.8	-165.85	9.1	-162.2	468.0	450.3	17.63	26.551	
3,300.0	3,260.4	3,254.6	3,236.7	10.8	10.1	-165.13	16.3	-169.7	488.2	470.1	18.05	27.050	
3,325.0	3,284.6	3,278.5	3,260.3	10.9	10.2	-164.89	18.9	-172.4	495.4	477.2	18.20	27.222	
3,400.0	3,357.4	3,350.0	3,330.9	11.2	10.5	-164.20	26.7	-180.4	517.1	498.5	18.66	27.720	
3,420.0	3,376.8	3,369.1	3,349.8	11.3	10.6	-164.03	28.8	-182.6	523.0	504.2	18.78	27.848	
3,500.0	3,454.4	3,445.4	3,425.1	11.7	10.9	-163.37	37.1	-191.2	546.2	527.0	19.27	28.342	
3,515.0	3,469.0	3,459.7	3,439.3	11.7	10.9	-163.25	38.6	-192.8	550.6	531.2	19.37	28.431	
3,600.0	3,551.5	3,540.8	3,519.4	12.1	11.2	-162.62	47.4	-201.9	575.4	555.5	19.90	28.921	
3,610.0	3,561.2	3,550.3	3,528.8	12.2	11.3	-162.55	48.5	-203.0	578.3	558.4	19.96	28.976	
3,700.0	3,648.5	3,636.2	3,613.6	12.6	11.6	-161.94	57.8	-212.6	604.7	584.2	20.53	29.459	
3,705.0	3,653.3	3,641.0	3,618.3	12.6	11.6	-161.91	58.3	-213.2	606.1	585.6	20.56	29.485	
3,800.0	3,745.5	3,731.6	3,707.8	13.0	12.0	-161.33	68.2	-223.3	634.0	612.9	21.16	29.961	
3,895.0	3,837.7	3,822.2	3,797.3	13.4	12.4	-160.80	78.1	-233.5	661.9	640.2	21.77	30.407	
3,900.0	3,842.6	3,827.0	3,802.0	13.5	12.4	-160.77	78.6	-234.1	663.4	641.6	21.80	30.430	
3,990.0	3,929.9	3,912.8	3,886.8	13.9	12.8	-160.30	87.9	-243.7	689.9	667.5	22.38	30.826	
4,000.0	3,939.6	3,922.3	3,896.2	13.9	12.8	-160.26	88.9	-244.8	692.9	670.4	22.45	30.868	
4,085.0	4,022.1	4,003.4	3,976.3	14.3	13.1	-159.85	97.8	-253.9	717.9	694.9	23.00	31.218	
4,100.0	4,036.6	4,017.7	3,990.4	14.4	13.2	-159.78	99.3	-255.5	722.4	699.3	23.09	31.278	
4,180.0	4,114.2	4,094.0	4,065.8	14.7	13.5	-159.43	107.6	-264.1	746.0	722.4	23.62	31.587	
4,200.0	4,133.6	4,113.1	4,084.6	14.8	13.6	-159.35	109.7	-266.3	751.9	728.1	23.75	31.661	
4,275.0	4,206.4	4,184.7	4,155.3	15.2	13.9	-159.05	117.5	-274.3	774.1	749.8	24.25	31.923	
4,300.0	4,230.7	4,208.5	4,178.8	15.3	14.0	-158.95	120.1	-277.0	781.5	757.0	24.41	32.008	
4,370.0	4,298.6	4,279.8	4,249.4	15.6	14.3	-158.70	127.5	-284.7	802.0	777.1	24.89	32.216	
4,400.0	4,327.7	4,310.5	4,279.7	15.7	14.4	-158.61	130.6	-287.8	810.7	785.6	25.10	32.297	
4,465.0	4,390.8	4,377.2	4,345.8	16.0	14.7	-158.47	136.7	-294.2	829.3	803.7	25.55	32.456	
4,500.0	4,424.7	4,413.2	4,381.5	16.2	14.8	-158.41	139.8	-297.4	839.1	813.3	25.79	32.536	
4,537.3	4,460.9	4,451.6	4,419.7	16.4	15.0	-158.37	143.0	-300.7	849.5	823.5	26.03	32.631	
4,560.0	4,483.0	4,475.1	4,443.0	16.5	15.1	-158.40	144.8	-302.6	855.7	829.5	26.19	32.679	
4,600.0	4,521.9	4,516.6	4,484.3	16.6	15.2	-158.44	147.9	-305.8	866.2	839.7	26.45	32.745	
4,655.0	4,575.7	4,574.1	4,541.5	16.9	15.5	-158.51	151.8	-309.8	879.5	852.6	26.83	32.778	
4,700.0	4,619.8	4,621.3	4,588.5	17.1	15.6	-158.56	154.8	-312.9	889.5	862.3	27.14	32.774	
4,750.0	4,669.0	4,674.1	4,641.2	17.4	15.8	-158.61	157.7	-315.9	899.6	872.1	27.47	32.746	
4,800.0	4,718.4	4,727.2	4,694.1	17.6	16.0	-158.66	160.3	-318.6	908.7	880.9	27.80	32.685	
4,845.0	4,762.9	4,775.2	4,742.0	17.8	16.2	-158.71	162.4	-320.8	916.1	888.0	28.09	32.614	
4,900.0	4,817.5	4,834.0	4,800.7	18.0	16.4	-158.76	164.6	-323.0	924.0	895.5	28.44	32.494	
4,940.0	4,857.2	4,876.9	4,843.6	18.2	16.5	-158.80	165.9	-324.4	928.9	900.2	28.67	32.395	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Rule Assigned:	Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
5,000.0	4,916.9	4,941.5	4,908.2	18.4	16.7	-158.86	167.5	-326.0	935.1	906.1	29.03	32.214
5,035.0	4,951.8	4,979.3	4,945.9	18.6	16.8	-158.89	168.2	-326.7	938.0	908.8	29.22	32.103
5,100.0	5,016.7	5,049.5	5,016.1	18.8	17.0	-158.95	169.0	-327.6	942.1	912.6	29.56	31.877
5,130.0	5,046.7	5,082.0	5,048.6	18.9	17.0	-158.97	169.2	-327.8	943.4	913.7	29.69	31.776
5,200.0	5,116.7	5,154.0	5,120.7	19.1	17.1	-159.02	169.2	-327.8	945.1	915.1	29.96	31.540
5,225.0	5,141.7	5,179.0	5,145.7	19.2	17.1	-159.03	169.2	-327.8	945.3	915.3	30.01	31.500
5,237.3	5,154.0	5,191.4	5,158.0	19.2	17.1	-108.24	169.2	-327.8	945.3	915.3	30.03	31.478
5,300.0	5,216.7	5,254.0	5,220.7	19.2	17.2	-108.24	169.2	-327.8	945.3	915.2	30.10	31.410
5,320.0	5,236.7	5,274.0	5,240.7	19.2	17.2	-108.24	169.2	-327.8	945.3	915.2	30.12	31.385
5,400.0	5,316.7	5,354.0	5,320.7	19.3	17.2	-108.24	169.2	-327.8	945.3	915.1	30.22	31.283
5,415.0	5,331.7	5,369.0	5,335.7	19.3	17.2	-108.24	169.2	-327.8	945.3	915.1	30.24	31.264
5,500.0	5,416.7	5,454.0	5,420.7	19.3	17.3	-108.24	169.2	-327.8	945.3	915.0	30.34	31.157
5,510.0	5,426.7	5,464.0	5,430.7	19.3	17.3	-108.24	169.2	-327.8	945.3	915.0	30.35	31.144
5,600.0	5,516.7	5,554.0	5,520.7	19.3	17.3	-108.24	169.2	-327.8	945.3	914.9	30.46	31.031
5,605.0	5,521.7	5,559.0	5,525.7	19.3	17.3	-108.24	169.2	-327.8	945.3	914.9	30.47	31.025
5,700.0	5,616.7	5,654.0	5,620.7	19.4	17.4	-108.24	169.2	-327.8	945.3	914.7	30.59	30.906
5,795.0	5,711.7	5,749.0	5,715.7	19.4	17.4	-108.24	169.2	-327.8	945.3	914.6	30.70	30.788
5,800.0	5,716.7	5,754.0	5,720.7	19.4	17.4	-108.24	169.2	-327.8	945.3	914.6	30.71	30.782
5,890.0	5,806.7	5,844.0	5,810.7	19.5	17.5	-108.24	169.2	-327.8	945.3	914.5	30.82	30.670
5,900.0	5,816.7	5,854.0	5,820.7	19.5	17.5	-108.24	169.2	-327.8	945.3	914.5	30.83	30.658
5,985.0	5,901.7	5,939.0	5,905.7	19.5	17.5	-108.24	169.2	-327.8	945.3	914.4	30.94	30.553
6,000.0	5,916.7	5,954.0	5,920.7	19.5	17.5	-108.24	169.2	-327.8	945.3	914.4	30.96	30.535
6,080.0	5,996.7	6,034.0	6,000.7	19.6	17.6	-108.24	169.2	-327.8	945.3	914.3	31.06	30.437
6,100.0	6,016.7	6,054.0	6,020.7	19.6	17.6	-108.24	169.2	-327.8	945.3	914.2	31.08	30.413
6,175.0	6,091.7	6,129.0	6,095.7	19.6	17.6	-108.24	169.2	-327.8	945.3	914.2	31.18	30.321
6,200.0	6,116.7	6,154.0	6,120.7	19.6	17.6	-108.24	169.2	-327.8	945.3	914.1	31.21	30.291
6,270.0	6,186.7	6,224.0	6,190.7	19.7	17.7	-108.24	169.2	-327.8	945.3	914.0	31.30	30.206
6,300.0	6,216.7	6,254.0	6,220.7	19.7	17.7	-108.24	169.2	-327.8	945.3	914.0	31.33	30.170
6,365.0	6,281.7	6,319.0	6,285.7	19.7	17.7	-108.24	169.2	-327.8	945.3	913.9	31.41	30.092
6,400.0	6,316.7	6,354.0	6,320.7	19.7	17.7	-108.24	169.2	-327.8	945.3	913.9	31.46	30.050
6,460.0	6,376.7	6,414.0	6,380.7	19.8	17.8	-108.24	169.2	-327.8	945.3	913.8	31.53	29.978
6,500.0	6,416.7	6,454.0	6,420.7	19.8	17.8	-108.24	169.2	-327.8	945.3	913.7	31.58	29.930
6,555.0	6,471.7	6,509.0	6,475.7	19.8	17.8	-108.24	169.2	-327.8	945.3	913.7	31.65	29.865
6,600.0	6,516.7	6,554.0	6,520.7	19.8	17.9	-108.24	169.2	-327.8	945.3	913.6	31.71	29.811
6,650.0	6,566.7	6,604.0	6,570.7	19.9	17.9	-108.24	169.2	-327.8	945.3	913.6	31.77	29.752
6,700.0	6,616.7	6,654.0	6,620.7	19.9	17.9	-108.24	169.2	-327.8	945.3	913.5	31.84	29.693
6,745.0	6,661.7	6,699.0	6,665.7	19.9	17.9	-108.24	169.2	-327.8	945.3	913.4	31.89	29.640
6,800.0	6,716.7	6,754.0	6,720.7	19.9	18.0	-108.24	169.2	-327.8	945.3	913.4	31.96	29.575
6,840.0	6,756.7	6,794.0	6,760.7	19.9	18.0	-108.24	169.2	-327.8	945.3	913.3	32.01	29.529
6,900.0	6,816.7	6,854.0	6,820.7	20.0	18.0	-108.24	169.2	-327.8	945.3	913.2	32.09	29.459
6,935.0	6,851.7	6,889.0	6,855.7	20.0	18.0	-108.24	169.2	-327.8	945.3	913.2	32.13	29.418
7,000.0	6,916.7	6,954.0	6,920.7	20.0	18.1	-108.24	169.2	-327.8	945.3	913.1	32.22	29.342
7,030.0	6,946.7	6,984.0	6,950.7	20.0	18.1	-108.24	169.2	-327.8	945.3	913.1	32.26	29.308
7,100.0	7,016.7	7,054.0	7,020.7	20.1	18.1	-108.24	169.2	-327.8	945.3	913.0	32.34	29.227
7,125.0	7,041.7	7,079.0	7,045.7	20.1	18.2	-108.24	169.2	-327.8	945.3	913.0	32.38	29.198
7,200.0	7,116.7	7,154.0	7,120.7	20.1	18.2	-108.24	169.2	-327.8	945.3	912.9	32.47	29.112
7,220.0	7,136.7	7,174.0	7,140.7	20.1	18.2	-108.24	169.2	-327.8	945.3	912.8	32.50	29.089
7,300.0	7,216.7	7,254.0	7,220.7	20.2	18.3	-108.24	169.2	-327.8	945.3	912.7	32.60	28.998
7,315.0	7,231.7	7,269.0	7,235.7	20.2	18.3	-108.24	169.2	-327.8	945.3	912.7	32.62	28.981
7,400.0	7,316.7	7,354.0	7,320.7	20.2	18.3	-108.24	169.2	-327.8	945.3	912.6	32.73	28.884
7,410.0	7,326.7	7,364.0	7,330.7	20.2	18.3	-108.24	169.2	-327.8	945.3	912.6	32.74	28.873

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
7,500.0	7,416.7	7,454.0	7,420.7	20.3	18.4	-108.24	169.2	-327.8	945.3	912.5	32.86	28.771	
7,505.0	7,421.7	7,459.0	7,425.7	20.3	18.4	-108.24	169.2	-327.8	945.3	912.5	32.86	28.766	
7,600.0	7,516.7	7,554.0	7,520.7	20.3	18.4	-108.24	169.2	-327.8	945.3	912.3	32.99	28.659	
7,695.0	7,611.7	7,649.0	7,615.7	20.4	18.5	-108.24	169.2	-327.8	945.3	912.2	33.11	28.553	
7,700.0	7,616.7	7,654.0	7,620.7	20.4	18.5	-108.24	169.2	-327.8	945.3	912.2	33.11	28.547	
7,790.0	7,706.7	7,744.0	7,710.7	20.4	18.5	-108.24	169.2	-327.8	945.3	912.1	33.23	28.447	
7,800.0	7,716.7	7,754.0	7,720.7	20.4	18.5	-108.24	169.2	-327.8	945.3	912.1	33.24	28.436	
7,885.0	7,801.7	7,839.0	7,805.7	20.5	18.6	-108.24	169.2	-327.8	945.3	912.0	33.35	28.342	
7,900.0	7,816.7	7,854.0	7,820.7	20.5	18.6	-108.24	169.2	-327.8	945.3	912.0	33.37	28.326	
7,980.0	7,896.7	7,934.0	7,900.7	20.5	18.6	-108.24	169.2	-327.8	945.3	911.9	33.48	28.238	
8,000.0	7,916.7	7,954.0	7,920.7	20.5	18.7	-108.24	169.2	-327.8	945.3	911.8	33.50	28.216	
8,075.0	7,991.7	8,029.0	7,995.7	20.6	18.7	-108.24	169.2	-327.8	945.3	911.7	33.60	28.134	
8,100.0	8,016.7	8,054.0	8,020.7	20.6	18.7	-108.24	169.2	-327.8	945.3	911.7	33.63	28.107	
8,170.0	8,086.7	8,124.0	8,090.7	20.6	18.8	-108.24	169.2	-327.8	945.3	911.6	33.72	28.031	
8,200.0	8,116.7	8,154.0	8,120.7	20.6	18.8	-108.24	169.2	-327.8	945.3	911.6	33.76	27.999	
8,265.0	8,181.7	8,219.0	8,185.7	20.7	18.8	-108.24	169.2	-327.8	945.3	911.5	33.85	27.929	
8,300.0	8,216.7	8,254.0	8,220.7	20.7	18.8	-108.24	169.2	-327.8	945.3	911.4	33.89	27.891	
8,360.0	8,276.7	8,314.0	8,280.7	20.7	18.9	-108.24	169.2	-327.8	945.3	911.4	33.97	27.827	
8,400.0	8,316.7	8,354.0	8,320.7	20.7	18.9	-108.24	169.2	-327.8	945.3	911.3	34.02	27.784	
8,455.0	8,371.7	8,409.0	8,375.7	20.8	18.9	-108.24	169.2	-327.8	945.3	911.2	34.09	27.729	
8,457.6	8,374.3	8,411.7	8,378.3	20.8	18.9	-108.24	169.2	-327.8	945.3	911.2	34.09	27.727	
8,500.0	8,416.7	8,446.6	8,413.2	20.8	18.9	-108.25	169.0	-327.8	945.4	911.3	34.11	27.717	
8,550.0	8,466.7	8,479.2	8,445.7	20.8	18.9	-108.35	167.3	-327.8	946.3	912.2	34.11	27.742	
8,600.0	8,516.7	8,511.4	8,477.8	20.8	19.0	-108.55	163.8	-327.8	948.1	914.0	34.11	27.797	
8,645.0	8,561.7	8,540.1	8,506.1	20.9	19.0	-108.81	159.1	-327.9	950.5	916.4	34.10	27.876	
8,700.0	8,616.7	8,574.4	8,539.5	20.9	19.0	-109.23	151.7	-327.9	954.5	920.5	34.08	28.011	
8,740.0	8,656.7	8,600.0	8,564.2	20.9	19.0	-109.62	144.9	-328.0	958.3	924.2	34.06	28.134	
8,800.0	8,716.7	8,634.0	8,596.5	21.0	19.1	-110.23	134.1	-328.1	965.2	931.2	34.02	28.370	
8,835.0	8,751.7	8,650.0	8,611.4	21.0	19.1	-110.55	128.4	-328.1	970.0	936.0	33.99	28.539	
8,900.0	8,816.7	8,689.4	8,647.5	21.0	19.1	-111.42	112.5	-328.3	980.4	946.5	33.94	28.884	
8,930.0	8,846.7	8,700.0	8,657.0	21.0	19.1	-111.68	107.8	-328.3	986.0	952.1	33.91	29.079	
9,000.0	8,916.7	8,750.0	8,700.6	21.1	19.2	-113.01	83.4	-328.5	1,000.7	966.9	33.87	29.547	
9,025.0	8,941.7	8,750.0	8,700.6	21.1	19.2	-113.01	83.4	-328.5	1,006.5	972.7	33.82	29.759	
9,100.0	9,016.7	8,786.0	8,730.6	21.1	19.2	-114.07	63.5	-328.7	1,026.2	992.4	33.75	30.402	
9,120.0	9,036.7	8,800.0	8,741.9	21.1	19.2	-114.51	55.3	-328.7	1,032.0	998.2	33.74	30.582	
9,200.0	9,116.7	8,827.2	8,763.3	21.2	19.2	-115.38	38.5	-328.9	1,057.2	1,023.6	33.66	31.404	
9,215.0	9,131.7	8,833.0	8,767.7	21.2	19.2	-115.57	34.8	-328.9	1,062.4	1,028.7	33.65	31.568	
9,300.0	9,216.7	8,864.0	8,791.0	21.2	19.3	-116.63	14.2	-329.1	1,093.8	1,060.2	33.60	32.556	
9,310.0	9,226.7	8,867.5	8,793.5	21.2	19.3	-116.75	11.8	-329.1	1,097.7	1,064.1	33.59	32.682	
9,316.4	9,233.0	8,869.7	8,795.1	21.2	19.3	-116.83	10.3	-329.1	1,100.3	1,066.7	33.58	32.763	
9,350.0	9,266.7	8,881.2	8,803.3	21.2	19.3	66.87	2.2	-329.2	1,113.8	1,080.4	33.37	33.371	
9,400.0	9,316.4	8,900.0	8,816.4	21.3	19.3	64.34	-11.2	-329.3	1,133.5	1,100.2	33.34	33.995	
9,405.0	9,321.3	8,900.0	8,816.4	21.3	19.3	64.15	-11.2	-329.3	1,135.5	1,102.2	33.34	34.059	
9,450.0	9,365.5	8,916.7	8,827.7	21.3	19.3	62.03	-23.6	-329.4	1,152.8	1,119.5	33.33	34.592	
9,500.0	9,413.5	8,934.9	8,839.5	21.3	19.3	59.85	-37.4	-329.5	1,171.5	1,138.1	33.33	35.151	
9,550.0	9,460.3	8,950.0	8,849.0	21.3	19.4	57.91	-49.1	-329.6	1,189.3	1,155.9	33.34	35.672	
9,595.0	9,500.8	8,970.1	8,861.2	21.4	19.4	56.21	-65.1	-329.7	1,204.4	1,171.0	33.37	36.088	
9,600.0	9,505.2	8,972.0	8,862.3	21.4	19.4	56.04	-66.7	-329.7	1,206.0	1,172.6	33.38	36.132	
9,650.0	9,548.1	9,000.0	8,878.2	21.4	19.4	54.30	-89.7	-329.9	1,221.7	1,188.3	33.44	36.536	
9,690.0	9,580.8	9,000.0	8,878.2	21.4	19.4	53.33	-89.7	-329.9	1,233.3	1,199.8	33.47	36.845	
9,700.0	9,588.6	9,000.0	8,878.2	21.4	19.4	53.10	-89.7	-329.9	1,236.1	1,202.6	33.48	36.918	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,750.0	9,626.4	9,029.1	8,893.5	21.5	19.4	51.77	-114.4	-330.1	1,248.9	1,215.4	33.57	37.199	
9,785.0	9,651.1	9,050.0	8,903.8	21.5	19.5	50.97	-132.6	-330.3	1,257.2	1,223.6	33.65	37.365	
9,800.0	9,661.3	9,050.0	8,903.8	21.5	19.5	50.71	-132.6	-330.3	1,260.4	1,226.8	33.67	37.435	
9,850.0	9,692.8	9,067.7	8,911.9	21.6	19.5	49.85	-148.3	-330.4	1,270.4	1,236.6	33.78	37.610	
9,880.0	9,710.1	9,079.3	8,917.0	21.6	19.5	49.42	-158.8	-330.5	1,275.6	1,241.7	33.85	37.684	
9,900.0	9,720.9	9,100.0	8,925.5	21.6	19.5	49.14	-177.7	-330.7	1,278.9	1,245.0	33.91	37.715	
9,950.0	9,745.2	9,100.0	8,925.5	21.6	19.5	48.64	-177.7	-330.7	1,285.4	1,251.4	34.02	37.780	
9,975.0	9,755.9	9,116.2	8,931.7	21.7	19.5	48.45	-192.6	-330.8	1,288.1	1,254.0	34.10	37.774	
10,000.0	9,765.6	9,126.0	8,935.2	21.7	19.5	48.30	-201.7	-330.9	1,290.4	1,256.2	34.17	37.761	
10,050.0	9,782.0	9,150.0	8,943.2	21.7	19.6	48.14	-224.4	-331.1	1,293.7	1,259.3	34.32	37.689	
10,070.0	9,787.4	9,150.0	8,943.2	21.8	19.6	48.08	-224.4	-331.1	1,294.5	1,260.1	34.38	37.650	
10,100.0	9,794.2	9,150.0	8,943.2	21.8	19.6	48.01	-224.4	-331.1	1,295.4	1,260.9	34.47	37.582	
10,150.0	9,802.2	9,184.3	8,953.0	21.8	19.6	48.25	-257.2	-331.3	1,295.0	1,260.3	34.64	37.382	
10,165.0	9,803.7	9,200.0	8,956.8	21.9	19.6	48.40	-272.5	-331.4	1,294.7	1,260.0	34.70	37.313	
10,200.0	9,805.8	9,200.0	8,956.8	21.9	19.6	48.52	-272.5	-331.4	1,293.1	1,258.3	34.80	37.153	
10,216.1	9,806.0	9,200.0	8,956.8	21.9	19.6	48.59	-272.5	-331.4	1,292.2	1,257.3	34.85	37.083	
10,260.0	9,806.0	9,226.9	8,962.3	22.0	19.6	48.81	-298.8	-331.7	1,289.4	1,254.4	34.99	36.851	
10,300.0	9,806.0	9,250.0	8,966.1	22.0	19.6	48.97	-321.6	-331.9	1,287.4	1,252.3	35.12	36.656	
10,355.0	9,806.1	9,250.0	8,966.1	22.1	19.6	48.94	-321.6	-331.9	1,285.2	1,249.9	35.30	36.413	
10,400.0	9,806.1	9,282.5	8,969.8	22.2	19.7	49.09	-353.9	-332.1	1,283.6	1,248.1	35.47	36.193	
10,450.0	9,806.1	9,300.0	8,971.1	22.2	19.7	49.13	-371.3	-332.3	1,282.5	1,246.8	35.65	35.973	
10,500.0	9,806.1	9,332.1	8,972.0	22.3	19.7	49.17	-403.4	-332.5	1,281.9	1,246.1	35.84	35.768	
10,512.3	9,806.1	9,332.1	8,972.0	22.3	19.7	49.17	-403.4	-332.5	1,281.8	1,245.9	35.88	35.725	
10,528.6	9,806.1	9,338.3	8,972.0	22.4	19.7	49.17	-409.6	-332.6	1,281.8	1,245.8	35.94	35.664	
10,545.0	9,806.1	9,354.7	8,972.0	22.4	19.7	49.17	-426.1	-332.7	1,281.8	1,245.8	36.01	35.596	
10,600.0	9,806.1	9,409.7	8,972.0	22.5	19.8	49.17	-481.1	-333.2	1,281.8	1,245.5	36.24	35.367	
10,640.0	9,806.2	9,449.7	8,972.1	22.6	19.8	49.17	-521.1	-333.5	1,281.7	1,245.3	36.44	35.179	
10,700.0	9,806.2	9,509.7	8,972.1	22.7	19.9	49.17	-581.0	-334.0	1,281.7	1,245.0	36.73	34.898	
10,735.0	9,806.2	9,544.7	8,972.1	22.7	20.0	49.17	-616.0	-334.3	1,281.7	1,244.8	36.92	34.719	
10,800.0	9,806.2	9,609.7	8,972.2	22.8	20.0	49.17	-681.0	-334.8	1,281.7	1,244.5	37.27	34.388	
10,830.0	9,806.2	9,639.7	8,972.2	22.9	20.1	49.17	-711.0	-335.1	1,281.7	1,244.3	37.45	34.224	
10,900.0	9,806.3	9,709.7	8,972.2	23.0	20.2	49.17	-781.0	-335.7	1,281.7	1,243.8	37.87	33.844	
10,925.0	9,806.3	9,734.7	8,972.2	23.1	20.2	49.17	-806.0	-335.9	1,281.7	1,243.7	38.03	33.699	
11,000.0	9,806.3	9,809.7	8,972.3	23.3	20.3	49.17	-881.0	-336.5	1,281.7	1,243.2	38.52	33.270	
11,020.0	9,806.3	9,829.7	8,972.3	23.3	20.4	49.17	-901.0	-336.6	1,281.7	1,243.0	38.66	33.150	
11,100.0	9,806.3	9,909.7	8,972.3	23.5	20.5	49.17	-981.0	-337.3	1,281.7	1,242.5	39.23	32.674	
11,115.0	9,806.4	9,924.7	8,972.4	23.6	20.6	49.17	-996.0	-337.4	1,281.7	1,242.3	39.34	32.581	
11,200.0	9,806.4	10,009.7	8,972.4	23.8	20.7	49.17	-1,081.0	-338.1	1,281.7	1,241.7	39.98	32.061	
11,210.0	9,806.4	10,019.7	8,972.4	23.8	20.8	49.17	-1,091.0	-338.2	1,281.7	1,241.6	40.05	31.998	
11,300.0	9,806.4	10,109.7	8,972.5	24.1	21.0	49.17	-1,181.0	-339.0	1,281.7	1,240.9	40.77	31.436	
11,305.0	9,806.4	10,114.7	8,972.5	24.1	21.0	49.17	-1,186.0	-339.0	1,281.7	1,240.8	40.81	31.404	
11,400.0	9,806.5	10,209.7	8,972.5	24.3	21.2	49.17	-1,281.0	-339.8	1,281.6	1,240.0	41.61	30.804	
11,495.0	9,806.5	10,304.7	8,972.6	24.7	21.5	49.17	-1,376.0	-340.6	1,281.6	1,239.2	42.44	30.200	
11,500.0	9,806.5	10,309.7	8,972.6	24.7	21.5	49.17	-1,381.0	-340.6	1,281.6	1,239.1	42.48	30.168	
11,590.0	9,806.5	10,399.7	8,972.6	25.0	21.8	49.17	-1,471.0	-341.4	1,281.6	1,238.3	43.30	29.596	
11,600.0	9,806.5	10,409.7	8,972.6	25.0	21.8	49.17	-1,481.0	-341.4	1,281.6	1,238.2	43.40	29.532	
11,685.0	9,806.6	10,494.7	8,972.7	25.3	22.1	49.17	-1,566.0	-342.1	1,281.6	1,237.4	44.20	28.994	
11,700.0	9,806.6	10,509.7	8,972.7	25.4	22.1	49.17	-1,581.0	-342.3	1,281.6	1,237.3	44.35	28.900	
11,780.0	9,806.6	10,589.7	8,972.8	25.7	22.4	49.17	-1,661.0	-342.9	1,281.6	1,236.5	45.13	28.398	
11,800.0	9,806.6	10,609.7	8,972.8	25.7	22.5	49.17	-1,681.0	-343.1	1,281.6	1,236.3	45.33	28.274	
11,875.0	9,806.6	10,684.7	8,972.8	26.0	22.8	49.17	-1,756.0	-343.7	1,281.6	1,235.5	46.09	27.809	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
11,900.0	9,806.7	10,709.7	8,972.8	26.1	22.9	49.17	-1,781.0	-343.9	1,281.6	1,235.2	46.34	27.656		
11,970.0	9,806.7	10,779.7	8,972.9	26.4	23.1	49.18	-1,851.0	-344.5	1,281.6	1,234.5	47.07	27.228		
12,000.0	9,806.7	10,809.7	8,972.9	26.5	23.3	49.18	-1,881.0	-344.7	1,281.6	1,234.2	47.38	27.048		
12,065.0	9,806.7	10,874.7	8,972.9	26.8	23.5	49.18	-1,946.0	-345.3	1,281.5	1,233.5	48.07	26.658		
12,100.0	9,806.7	10,909.7	8,972.9	27.0	23.7	49.18	-1,981.0	-345.6	1,281.5	1,233.1	48.45	26.451		
12,160.0	9,806.8	10,969.7	8,973.0	27.2	23.9	49.18	-2,041.0	-346.1	1,281.5	1,232.4	49.10	26.098		
12,200.0	9,806.8	11,009.7	8,973.0	27.4	24.1	49.18	-2,081.0	-346.4	1,281.5	1,232.0	49.54	25.867		
12,255.0	9,806.8	11,064.7	8,973.0	27.7	24.4	49.18	-2,136.0	-346.8	1,281.5	1,231.4	50.16	25.551		
12,300.0	9,806.8	11,109.7	8,973.1	27.9	24.6	49.18	-2,181.0	-347.2	1,281.5	1,230.9	50.66	25.297		
12,350.0	9,806.8	11,159.7	8,973.1	28.1	24.8	49.18	-2,231.0	-347.6	1,281.5	1,230.3	51.23	25.016		
12,400.0	9,806.9	11,209.7	8,973.1	28.3	25.1	49.18	-2,281.0	-348.0	1,281.5	1,229.7	51.80	24.740		
12,445.0	9,806.9	11,254.7	8,973.2	28.6	25.3	49.18	-2,326.0	-348.4	1,281.5	1,229.2	52.32	24.494		
12,500.0	9,806.9	11,309.7	8,973.2	28.8	25.6	49.18	-2,381.0	-348.9	1,281.5	1,228.5	52.96	24.198		
12,540.0	9,806.9	11,349.7	8,973.2	29.0	25.8	49.18	-2,421.0	-349.2	1,281.5	1,228.1	53.43	23.985		
12,600.0	9,806.9	11,409.7	8,973.2	29.3	26.1	49.18	-2,481.0	-349.7	1,281.5	1,227.3	54.14	23.671		
12,635.0	9,806.9	11,444.7	8,973.3	29.5	26.3	49.18	-2,516.0	-350.0	1,281.5	1,226.9	54.56	23.489		
12,700.0	9,807.0	11,509.7	8,973.3	29.9	26.6	49.18	-2,581.0	-350.5	1,281.5	1,226.1	55.33	23.159		
12,730.0	9,807.0	11,539.7	8,973.3	30.0	26.8	49.18	-2,611.0	-350.8	1,281.5	1,225.8	55.70	23.008		
12,800.0	9,807.0	11,609.7	8,973.4	30.4	27.2	49.18	-2,681.0	-351.3	1,281.4	1,224.9	56.55	22.662		
12,825.0	9,807.0	11,634.7	8,973.4	30.5	27.3	49.18	-2,706.0	-351.6	1,281.4	1,224.6	56.85	22.539		
12,900.0	9,807.1	11,709.7	8,973.4	30.9	27.7	49.18	-2,781.0	-352.2	1,281.4	1,223.7	57.78	22.179		
12,920.0	9,807.1	11,729.7	8,973.4	31.0	27.8	49.18	-2,801.0	-352.3	1,281.4	1,223.4	58.03	22.084		
13,000.0	9,807.1	11,809.7	8,973.5	31.5	28.3	49.18	-2,881.0	-353.0	1,281.4	1,222.4	59.02	21.711		
13,015.0	9,807.1	11,824.7	8,973.5	31.6	28.4	49.18	-2,896.0	-353.1	1,281.4	1,222.2	59.21	21.642		
13,100.0	9,807.1	11,909.7	8,973.5	32.0	28.9	49.18	-2,981.0	-353.8	1,281.4	1,221.1	60.28	21.258		
13,110.0	9,807.1	11,919.7	8,973.6	32.1	28.9	49.18	-2,991.0	-353.9	1,281.4	1,221.0	60.41	21.213		
13,200.0	9,807.2	12,009.7	8,973.6	32.6	29.5	49.18	-3,081.0	-354.7	1,281.4	1,219.8	61.55	20.819		
13,205.0	9,807.2	12,014.7	8,973.6	32.6	29.5	49.18	-3,086.0	-354.7	1,281.4	1,219.8	61.61	20.797		
13,300.0	9,807.2	12,109.7	8,973.7	33.2	30.1	49.18	-3,181.0	-355.5	1,281.4	1,218.5	62.83	20.393		
13,395.0	9,807.2	12,204.7	8,973.7	33.8	30.6	49.19	-3,276.0	-356.3	1,281.4	1,217.3	64.06	20.001		
13,400.0	9,807.2	12,209.7	8,973.7	33.8	30.7	49.19	-3,281.0	-356.3	1,281.4	1,217.2	64.13	19.981		
13,490.0	9,807.3	12,299.7	8,973.8	34.3	31.2	49.19	-3,371.0	-357.0	1,281.4	1,216.0	65.30	19.621		
13,500.0	9,807.3	12,309.7	8,973.8	34.4	31.3	49.19	-3,381.0	-357.1	1,281.4	1,215.9	65.44	19.582		
13,585.0	9,807.3	12,394.7	8,973.8	34.9	31.8	49.19	-3,466.0	-357.8	1,281.3	1,214.8	66.55	19.253		
13,600.0	9,807.3	12,409.7	8,973.9	35.0	31.9	49.19	-3,480.9	-358.0	1,281.3	1,214.6	66.75	19.196		
13,680.0	9,807.4	12,489.7	8,973.9	35.5	32.4	49.19	-3,560.9	-358.6	1,281.3	1,213.5	67.81	18.895		
13,700.0	9,807.4	12,509.7	8,973.9	35.6	32.6	49.19	-3,580.9	-358.8	1,281.3	1,213.2	68.08	18.822		
13,775.0	9,807.4	12,584.7	8,974.0	36.1	33.0	49.19	-3,655.9	-359.4	1,281.3	1,212.2	69.08	18.549		
13,800.0	9,807.4	12,609.7	8,974.0	36.2	33.2	49.19	-3,680.9	-359.6	1,281.3	1,211.9	69.41	18.460		
13,870.0	9,807.4	12,679.7	8,974.0	36.7	33.7	49.19	-3,750.9	-360.2	1,281.3	1,210.9	70.35	18.213		
13,900.0	9,807.4	12,709.7	8,974.0	36.9	33.8	49.19	-3,780.9	-360.4	1,281.3	1,210.5	70.75	18.109		
13,965.0	9,807.5	12,774.7	8,974.1	37.3	34.3	49.19	-3,845.9	-361.0	1,281.3	1,209.7	71.63	17.887		
14,000.0	9,807.5	12,809.7	8,974.1	37.5	34.5	49.19	-3,880.9	-361.3	1,281.3	1,209.2	72.11	17.769		
14,060.0	9,807.5	12,869.7	8,974.1	37.9	34.9	49.19	-3,940.9	-361.8	1,281.3	1,208.4	72.92	17.571		
14,100.0	9,807.5	12,909.7	8,974.2	38.1	35.2	49.19	-3,980.9	-362.1	1,281.3	1,207.8	73.47	17.440		
14,155.0	9,807.5	12,964.7	8,974.2	38.5	35.5	49.19	-4,035.9	-362.5	1,281.3	1,207.0	74.22	17.264		
14,200.0	9,807.6	13,009.7	8,974.2	38.8	35.8	49.19	-4,080.9	-362.9	1,281.3	1,206.4	74.83	17.122		
14,250.0	9,807.6	13,059.7	8,974.2	39.1	36.2	49.19	-4,130.9	-363.3	1,281.2	1,205.7	75.52	16.966		
14,300.0	9,807.6	13,109.7	8,974.3	39.4	36.5	49.19	-4,180.9	-363.7	1,281.2	1,205.0	76.20	16.813		
14,345.0	9,807.6	13,154.7	8,974.3	39.7	36.8	49.19	-4,225.9	-364.1	1,281.2	1,204.4	76.83	16.677		
14,400.0	9,807.6	13,209.7	8,974.3	40.1	37.2	49.19	-4,280.9	-364.6	1,281.2	1,203.6	77.58	16.514		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
14,440.0	9,807.7	13,249.7	8,974.4	40.3	37.4	49.19	-4,320.9	-364.9	1,281.2	1,203.1	78.14	16.397	
14,500.0	9,807.7	13,309.7	8,974.4	40.7	37.8	49.19	-4,380.9	-365.4	1,281.2	1,202.2	78.97	16.224	
14,535.0	9,807.7	13,344.7	8,974.4	41.0	38.1	49.19	-4,415.9	-365.7	1,281.2	1,201.8	79.46	16.125	
14,600.0	9,807.7	13,409.7	8,974.5	41.4	38.5	49.19	-4,480.9	-366.2	1,281.2	1,200.8	80.36	15.943	
14,630.0	9,807.7	13,439.7	8,974.5	41.6	38.7	49.19	-4,510.9	-366.5	1,281.2	1,200.4	80.78	15.860	
14,700.0	9,807.8	13,509.7	8,974.5	42.0	39.2	49.19	-4,580.9	-367.0	1,281.2	1,199.4	81.76	15.670	
14,725.0	9,807.8	13,534.7	8,974.5	42.2	39.4	49.19	-4,605.9	-367.3	1,281.2	1,199.1	82.11	15.604	
14,800.0	9,807.8	13,609.7	8,974.6	42.7	39.9	49.20	-4,680.9	-367.9	1,281.2	1,198.0	83.16	15.406	
14,820.0	9,807.8	13,629.7	8,974.6	42.8	40.0	49.20	-4,700.9	-368.0	1,281.2	1,197.7	83.44	15.354	
14,900.0	9,807.8	13,709.7	8,974.6	43.4	40.6	49.20	-4,780.9	-368.7	1,281.2	1,196.6	84.57	15.150	
14,915.0	9,807.8	13,724.7	8,974.6	43.5	40.7	49.20	-4,795.9	-368.8	1,281.2	1,196.4	84.78	15.112	
15,000.0	9,807.9	13,809.7	8,974.7	44.1	41.3	49.20	-4,880.9	-369.5	1,281.1	1,195.2	85.98	14.901	
15,010.0	9,807.9	13,819.7	8,974.7	44.1	41.3	49.20	-4,890.9	-369.6	1,281.1	1,195.0	86.12	14.876	
15,100.0	9,807.9	13,909.7	8,974.8	44.7	42.0	49.20	-4,980.9	-370.3	1,281.1	1,193.7	87.39	14.659	
15,105.0	9,807.9	13,914.7	8,974.8	44.8	42.0	49.20	-4,985.9	-370.4	1,281.1	1,193.7	87.47	14.647	
15,200.0	9,808.0	14,009.7	8,974.8	45.4	42.7	49.20	-5,080.9	-371.2	1,281.1	1,192.3	88.82	14.424	
15,295.0	9,808.0	14,104.7	8,974.9	46.1	43.3	49.20	-5,175.9	-372.0	1,281.1	1,190.9	90.17	14.208	
15,300.0	9,808.0	14,109.7	8,974.9	46.1	43.4	49.20	-5,180.9	-372.0	1,281.1	1,190.9	90.24	14.197	
15,390.0	9,808.0	14,199.7	8,974.9	46.7	44.0	49.20	-5,270.9	-372.7	1,281.1	1,189.6	91.53	13.997	
15,400.0	9,808.0	14,209.7	8,974.9	46.8	44.1	49.20	-5,280.9	-372.8	1,281.1	1,189.4	91.67	13.975	
15,485.0	9,808.1	14,294.7	8,975.0	47.4	44.7	49.20	-5,365.9	-373.5	1,281.1	1,188.2	92.89	13.792	
15,500.0	9,808.1	14,309.7	8,975.0	47.5	44.8	49.20	-5,380.9	-373.7	1,281.1	1,188.0	93.10	13.760	
15,580.0	9,808.1	14,389.7	8,975.0	48.0	45.3	49.20	-5,460.9	-374.3	1,281.1	1,186.8	94.25	13.592	
15,600.0	9,808.1	14,409.7	8,975.1	48.2	45.5	49.20	-5,480.9	-374.5	1,281.1	1,186.5	94.54	13.551	
15,675.0	9,808.1	14,484.7	8,975.1	48.7	46.0	49.20	-5,555.9	-375.1	1,281.1	1,185.4	95.62	13.398	
15,700.0	9,808.1	14,509.7	8,975.1	48.9	46.2	49.20	-5,580.9	-375.3	1,281.0	1,185.1	95.98	13.348	
15,770.0	9,808.2	14,579.7	8,975.2	49.4	46.7	49.20	-5,650.9	-375.9	1,281.0	1,184.1	96.98	13.209	
15,800.0	9,808.2	14,609.7	8,975.2	49.6	46.9	49.20	-5,680.9	-376.1	1,281.0	1,183.6	97.42	13.150	
15,865.0	9,808.2	14,674.7	8,975.2	50.0	47.4	49.20	-5,745.9	-376.7	1,281.0	1,182.7	98.36	13.024	
15,900.0	9,808.2	14,709.7	8,975.2	50.3	47.6	49.20	-5,780.9	-377.0	1,281.0	1,182.2	98.86	12.957	
15,960.0	9,808.3	14,769.7	8,975.3	50.7	48.0	49.20	-5,840.9	-377.5	1,281.0	1,181.3	99.73	12.845	
16,000.0	9,808.3	14,809.7	8,975.3	51.0	48.3	49.20	-5,880.9	-377.8	1,281.0	1,180.7	100.31	12.770	
16,055.0	9,808.3	14,864.7	8,975.3	51.4	48.7	49.20	-5,935.9	-378.2	1,281.0	1,179.9	101.11	12.669	
16,100.0	9,808.3	14,909.7	8,975.4	51.7	49.0	49.20	-5,980.9	-378.6	1,281.0	1,179.2	101.76	12.588	
16,150.0	9,808.3	14,959.7	8,975.4	52.0	49.4	49.20	-6,030.9	-379.0	1,281.0	1,178.5	102.49	12.499	
16,200.0	9,808.3	15,009.7	8,975.4	52.4	49.8	49.21	-6,080.9	-379.4	1,281.0	1,177.8	103.22	12.411	
16,245.0	9,808.4	15,054.7	8,975.4	52.7	50.1	49.21	-6,125.9	-379.8	1,281.0	1,177.1	103.87	12.332	
16,300.0	9,808.4	15,109.7	8,975.5	53.1	50.5	49.21	-6,180.9	-380.3	1,281.0	1,176.3	104.67	12.238	
16,340.0	9,808.4	15,149.7	8,975.5	53.4	50.8	49.21	-6,220.9	-380.6	1,281.0	1,175.7	105.26	12.170	
16,400.0	9,808.4	15,209.7	8,975.5	53.8	51.2	49.21	-6,280.9	-381.1	1,281.0	1,174.8	106.13	12.069	
16,435.0	9,808.4	15,244.7	8,975.6	54.0	51.4	49.21	-6,315.9	-381.4	1,280.9	1,174.3	106.64	12.011	
16,500.0	9,808.5	15,309.7	8,975.6	54.5	51.9	49.21	-6,380.9	-381.9	1,280.9	1,173.3	107.59	11.905	
16,530.0	9,808.5	15,339.7	8,975.6	54.7	52.1	49.21	-6,410.8	-382.2	1,280.9	1,172.9	108.03	11.857	
16,600.0	9,808.5	15,409.7	8,975.7	55.2	52.6	49.21	-6,480.8	-382.7	1,280.9	1,171.9	109.06	11.745	
16,625.0	9,808.5	15,434.7	8,975.7	55.4	52.8	49.21	-6,505.8	-382.9	1,280.9	1,171.5	109.42	11.706	
16,700.0	9,808.5	15,509.7	8,975.7	55.9	53.4	49.21	-6,580.8	-383.6	1,280.9	1,170.4	110.52	11.590	
16,720.0	9,808.5	15,529.7	8,975.7	56.1	53.5	49.21	-6,600.8	-383.7	1,280.9	1,170.1	110.82	11.559	
16,800.0	9,808.6	15,609.7	8,975.8	56.6	54.1	49.21	-6,680.8	-384.4	1,280.9	1,168.9	111.99	11.438	
16,815.0	9,808.6	15,624.7	8,975.8	56.7	54.2	49.21	-6,695.8	-384.5	1,280.9	1,168.7	112.21	11.415	
16,900.0	9,808.6	15,709.7	8,975.8	57.4	54.8	49.21	-6,780.8	-385.2	1,280.9	1,167.4	113.46	11.289	
16,910.0	9,808.6	15,719.7	8,975.8	57.4	54.9	49.21	-6,790.8	-385.3	1,280.9	1,167.3	113.61	11.275	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
17,000.0	9,808.7	15,809.7	8,975.9	58.1	55.5	49.21	-6,880.8	-386.0	1,280.9	1,165.9	114.93	11.145
17,005.0	9,808.7	15,814.7	8,975.9	58.1	55.6	49.21	-6,885.8	-386.1	1,280.9	1,165.9	115.01	11.137
17,100.0	9,808.7	15,909.7	8,976.0	58.8	56.3	49.21	-6,980.8	-386.9	1,280.9	1,164.4	116.41	11.003
17,195.0	9,808.7	16,004.7	8,976.0	59.5	57.0	49.21	-7,075.8	-387.7	1,280.8	1,163.0	117.81	10.872
17,200.0	9,808.7	16,009.7	8,976.0	59.5	57.0	49.21	-7,080.8	-387.7	1,280.8	1,163.0	117.88	10.865
17,290.0	9,808.8	16,099.7	8,976.1	60.2	57.7	49.21	-7,170.8	-388.4	1,280.8	1,161.6	119.21	10.744
17,300.0	9,808.8	16,109.7	8,976.1	60.2	57.7	49.21	-7,180.8	-388.5	1,280.8	1,161.5	119.36	10.731
17,385.0	9,808.8	16,194.7	8,976.1	60.8	58.4	49.21	-7,265.8	-389.2	1,280.8	1,160.2	120.62	10.619
17,400.0	9,808.8	16,209.7	8,976.1	61.0	58.5	49.21	-7,280.8	-389.3	1,280.8	1,160.0	120.84	10.599
17,480.0	9,808.8	16,289.7	8,976.2	61.5	59.0	49.21	-7,360.8	-390.0	1,280.8	1,158.8	122.02	10.496
17,500.0	9,808.9	16,309.7	8,976.2	61.7	59.2	49.21	-7,380.8	-390.2	1,280.8	1,158.5	122.32	10.471
17,575.0	9,808.9	16,384.7	8,976.2	62.2	59.7	49.21	-7,455.8	-390.8	1,280.8	1,157.4	123.43	10.377
17,600.0	9,808.9	16,409.7	8,976.3	62.4	59.9	49.21	-7,480.8	-391.0	1,280.8	1,157.0	123.80	10.346
17,670.0	9,808.9	16,479.7	8,976.3	62.9	60.4	49.22	-7,550.8	-391.6	1,280.8	1,155.9	124.84	10.259
17,700.0	9,808.9	16,509.7	8,976.3	63.1	60.7	49.22	-7,580.8	-391.8	1,280.8	1,155.5	125.28	10.223
17,765.0	9,809.0	16,574.7	8,976.4	63.6	61.1	49.22	-7,645.8	-392.4	1,280.8	1,154.5	126.25	10.145
17,800.0	9,809.0	16,609.7	8,976.4	63.9	61.4	49.22	-7,680.8	-392.7	1,280.8	1,154.0	126.77	10.103
17,860.0	9,809.0	16,669.7	8,976.4	64.3	61.8	49.22	-7,740.8	-393.1	1,280.7	1,153.1	127.66	10.032
17,900.0	9,809.0	16,709.7	8,976.4	64.6	62.1	49.22	-7,780.8	-393.5	1,280.7	1,152.5	128.26	9.986
17,955.0	9,809.0	16,764.7	8,976.5	65.0	62.5	49.22	-7,835.8	-393.9	1,280.7	1,151.7	129.07	9.922
18,000.0	9,809.1	16,809.7	8,976.5	65.3	62.9	49.22	-7,880.8	-394.3	1,280.7	1,151.0	129.74	9.871
18,050.0	9,809.1	16,859.7	8,976.5	65.7	63.2	49.22	-7,930.8	-394.7	1,280.7	1,150.2	130.49	9.815
18,100.0	9,809.1	16,909.7	8,976.6	66.0	63.6	49.22	-7,980.8	-395.1	1,280.7	1,149.5	131.23	9.759
18,145.0	9,809.1	16,954.7	8,976.6	66.4	63.9	49.22	-8,025.8	-395.5	1,280.7	1,148.8	131.90	9.709
18,200.0	9,809.1	17,009.7	8,976.6	66.8	64.3	49.22	-8,080.8	-396.0	1,280.7	1,148.0	132.72	9.649
18,240.0	9,809.1	17,049.7	8,976.6	67.1	64.6	49.22	-8,120.8	-396.3	1,280.7	1,147.4	133.32	9.606
18,300.0	9,809.2	17,109.7	8,976.7	67.5	65.1	49.22	-8,180.8	-396.8	1,280.7	1,146.5	134.22	9.542
18,335.0	9,809.2	17,144.7	8,976.7	67.8	65.3	49.22	-8,215.8	-397.1	1,280.7	1,145.9	134.74	9.505
18,400.0	9,809.2	17,209.7	8,976.7	68.2	65.8	49.22	-8,280.8	-397.6	1,280.7	1,145.0	135.71	9.437
18,430.0	9,809.2	17,239.7	8,976.8	68.4	66.0	49.22	-8,310.8	-397.9	1,280.7	1,144.5	136.16	9.406
18,500.0	9,809.2	17,309.7	8,976.8	69.0	66.6	49.22	-8,380.8	-398.4	1,280.7	1,143.5	137.20	9.334
18,525.0	9,809.3	17,334.7	8,976.8	69.1	66.7	49.22	-8,405.8	-398.6	1,280.7	1,143.1	137.58	9.309
18,600.0	9,809.3	17,409.7	8,976.9	69.7	67.3	49.22	-8,480.8	-399.3	1,280.6	1,141.9	138.70	9.233
18,620.0	9,809.3	17,429.7	8,976.9	69.8	67.4	49.22	-8,500.8	-399.4	1,280.6	1,141.6	139.00	9.213
18,700.0	9,809.3	17,509.7	8,976.9	70.4	68.0	49.22	-8,580.8	-400.1	1,280.6	1,140.4	140.19	9.135
18,715.0	9,809.3	17,524.7	8,976.9	70.5	68.2	49.22	-8,595.8	-400.2	1,280.6	1,140.2	140.42	9.120
18,800.0	9,809.4	17,609.7	8,977.0	71.2	68.8	49.22	-8,680.8	-400.9	1,280.6	1,138.9	141.69	9.038
18,810.0	9,809.4	17,619.7	8,977.0	71.2	68.9	49.22	-8,690.8	-401.0	1,280.6	1,138.8	141.84	9.029
18,900.0	9,809.4	17,709.7	8,977.0	71.9	69.5	49.22	-8,780.8	-401.7	1,280.6	1,137.4	143.19	8.943
18,905.0	9,809.4	17,714.7	8,977.0	71.9	69.6	49.22	-8,785.8	-401.8	1,280.6	1,137.3	143.26	8.939
19,000.0	9,809.4	17,809.7	8,977.1	72.6	70.3	49.22	-8,880.8	-402.6	1,280.6	1,135.9	144.69	8.851
19,095.0	9,809.5	17,904.7	8,977.2	73.3	71.0	49.23	-8,975.8	-403.4	1,280.6	1,134.5	146.11	8.764
19,100.0	9,809.5	17,909.7	8,977.2	73.4	71.0	49.23	-8,980.8	-403.4	1,280.6	1,134.4	146.19	8.760
19,190.0	9,809.5	17,999.7	8,977.2	74.0	71.7	49.23	-9,070.8	-404.1	1,280.6	1,133.0	147.54	8.679
19,200.0	9,809.5	18,009.7	8,977.2	74.1	71.8	49.23	-9,080.8	-404.2	1,280.6	1,132.9	147.69	8.671
19,285.0	9,809.6	18,094.7	8,977.3	74.7	72.4	49.23	-9,165.8	-404.9	1,280.6	1,131.6	148.97	8.596
19,300.0	9,809.6	18,109.7	8,977.3	74.8	72.5	49.23	-9,180.8	-405.0	1,280.5	1,131.4	149.19	8.583
19,380.0	9,809.6	18,189.7	8,977.3	75.4	73.1	49.23	-9,260.8	-405.7	1,280.5	1,130.1	150.39	8.515
19,400.0	9,809.6	18,209.7	8,977.3	75.6	73.2	49.23	-9,280.8	-405.9	1,280.5	1,129.8	150.69	8.498
19,475.0	9,809.6	18,284.7	8,977.4	76.1	73.8	49.23	-9,355.7	-406.5	1,280.5	1,128.7	151.82	8.434
19,500.0	9,809.6	18,309.7	8,977.4	76.3	74.0	49.23	-9,380.7	-406.7	1,280.5	1,128.3	152.20	8.414

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Minimum Separation	Separation Factor	Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
19,570.0	9,809.7	18,379.7	8,977.4	76.8	74.5	49.23	-9,450.7	-407.3	1,280.5	1,127.3	153.25	8.356
19,600.0	9,809.7	18,409.7	8,977.5	77.1	74.7	49.23	-9,480.7	-407.5	1,280.5	1,126.8	153.70	8.331
19,665.0	9,809.7	18,474.7	8,977.5	77.5	75.2	49.23	-9,545.7	-408.1	1,280.5	1,125.8	154.68	8.278
19,700.0	9,809.7	18,509.7	8,977.5	77.8	75.5	49.23	-9,580.7	-408.4	1,280.5	1,125.3	155.21	8.250
19,760.0	9,809.7	18,569.7	8,977.6	78.2	75.9	49.23	-9,640.7	-408.8	1,280.5	1,124.4	156.11	8.202
19,800.0	9,809.8	18,609.7	8,977.6	78.5	76.2	49.23	-9,680.7	-409.2	1,280.5	1,123.8	156.71	8.171
19,855.0	9,809.8	18,664.7	8,977.6	78.9	76.6	49.23	-9,735.7	-409.6	1,280.5	1,122.9	157.54	8.128
19,900.0	9,809.8	18,709.7	8,977.6	79.3	77.0	49.23	-9,780.7	-410.0	1,280.5	1,122.2	158.22	8.093
19,950.0	9,809.8	18,759.7	8,977.7	79.6	77.3	49.23	-9,830.7	-410.4	1,280.5	1,121.5	158.97	8.055
20,000.0	9,809.8	18,809.7	8,977.7	80.0	77.7	49.23	-9,880.7	-410.8	1,280.5	1,120.7	159.73	8.017
20,045.0	9,809.9	18,854.7	8,977.7	80.4	78.0	49.23	-9,925.7	-411.2	1,280.4	1,120.0	160.41	7.983
20,100.0	9,809.9	18,909.7	8,977.8	80.8	78.5	49.23	-9,980.7	-411.7	1,280.4	1,119.2	161.24	7.941
20,140.0	9,809.9	18,949.7	8,977.8	81.1	78.8	49.23	-10,020.7	-412.0	1,280.4	1,118.6	161.84	7.912
20,200.0	9,809.9	19,009.7	8,977.8	81.5	79.2	49.23	-10,080.7	-412.5	1,280.4	1,117.7	162.74	7.868
20,235.0	9,809.9	19,044.7	8,977.8	81.8	79.5	49.23	-10,115.7	-412.8	1,280.4	1,117.1	163.27	7.842
20,300.0	9,810.0	19,109.7	8,977.9	82.2	80.0	49.23	-10,180.7	-413.3	1,280.4	1,116.2	164.25	7.795
20,330.0	9,810.0	19,139.7	8,977.9	82.5	80.2	49.23	-10,210.7	-413.6	1,280.4	1,115.7	164.71	7.774
20,400.0	9,810.0	19,209.7	8,977.9	83.0	80.7	49.23	-10,280.7	-414.1	1,280.4	1,114.6	165.76	7.724
20,425.0	9,810.0	19,234.7	8,978.0	83.2	80.9	49.23	-10,305.7	-414.3	1,280.4	1,114.3	166.14	7.707
20,500.0	9,810.0	19,309.7	8,978.0	83.7	81.4	49.24	-10,380.7	-415.0	1,280.4	1,113.1	167.27	7.654
20,520.0	9,810.0	19,329.7	8,978.0	83.9	81.6	49.24	-10,400.7	-415.1	1,280.4	1,112.8	167.58	7.641
20,600.0	9,810.1	19,409.7	8,978.1	84.5	82.2	49.24	-10,480.7	-415.8	1,280.4	1,111.6	168.79	7.586
20,615.0	9,810.1	19,424.7	8,978.1	84.6	82.3	49.24	-10,495.7	-415.9	1,280.4	1,111.4	169.01	7.576
20,700.0	9,810.1	19,509.7	8,978.1	85.2	82.9	49.24	-10,580.7	-416.6	1,280.4	1,110.1	170.30	7.518
20,710.0	9,810.1	19,519.7	8,978.1	85.3	83.0	49.24	-10,590.7	-416.7	1,280.4	1,109.9	170.45	7.512
20,800.0	9,810.2	19,609.7	8,978.2	86.0	83.7	49.24	-10,680.7	-417.4	1,280.3	1,108.5	171.81	7.452
20,805.0	9,810.2	19,614.7	8,978.2	86.0	83.7	49.24	-10,685.7	-417.5	1,280.3	1,108.5	171.89	7.449
20,900.0	9,810.2	19,709.7	8,978.2	86.7	84.4	49.24	-10,780.7	-418.3	1,280.3	1,107.0	173.32	7.387
20,995.0	9,810.2	19,804.7	8,978.3	87.4	85.2	49.24	-10,875.7	-419.0	1,280.3	1,105.6	174.76	7.326
21,000.0	9,810.2	19,809.7	8,978.3	87.4	85.2	49.24	-10,880.7	-419.1	1,280.3	1,105.5	174.84	7.323
21,090.0	9,810.3	19,899.7	8,978.4	88.1	85.9	49.24	-10,970.7	-419.8	1,280.3	1,104.1	176.20	7.266
21,100.0	9,810.3	19,909.7	8,978.4	88.2	85.9	49.24	-10,980.7	-419.9	1,280.3	1,104.0	176.35	7.260
21,185.0	9,810.3	19,994.7	8,978.4	88.8	86.6	49.24	-11,065.7	-420.6	1,280.3	1,102.7	177.64	7.207
21,200.0	9,810.3	20,009.7	8,978.4	88.9	86.7	49.24	-11,080.7	-420.7	1,280.3	1,102.4	177.87	7.198
21,280.0	9,810.3	20,089.7	8,978.5	89.5	87.3	49.24	-11,160.7	-421.4	1,280.3	1,101.2	179.08	7.149
21,300.0	9,810.3	20,109.7	8,978.5	89.7	87.4	49.24	-11,180.7	-421.6	1,280.3	1,100.9	179.38	7.137
21,375.0	9,810.4	20,184.7	8,978.5	90.2	88.0	49.24	-11,255.7	-422.2	1,280.3	1,099.7	180.52	7.092
21,400.0	9,810.4	20,209.7	8,978.5	90.4	88.2	49.24	-11,280.7	-422.4	1,280.3	1,099.4	180.90	7.077
21,470.0	9,810.4	20,279.7	8,978.6	91.0	88.7	49.24	-11,350.7	-423.0	1,280.2	1,098.3	181.96	7.036
21,500.0	9,810.4	20,309.7	8,978.6	91.2	88.9	49.24	-11,380.7	-423.2	1,280.2	1,097.8	182.41	7.018
21,565.0	9,810.5	20,374.7	8,978.6	91.7	89.4	49.24	-11,445.7	-423.8	1,280.2	1,096.8	183.40	6.981
21,600.0	9,810.5	20,409.7	8,978.7	91.9	89.7	49.24	-11,480.7	-424.0	1,280.2	1,096.3	183.93	6.960
21,660.0	9,810.5	20,469.7	8,978.7	92.4	90.1	49.24	-11,540.7	-424.5	1,280.2	1,095.4	184.84	6.926
21,700.0	9,810.5	20,509.7	8,978.7	92.7	90.4	49.24	-11,580.7	-424.9	1,280.2	1,094.8	185.45	6.903
21,755.0	9,810.5	20,564.7	8,978.8	93.1	90.9	49.24	-11,635.7	-425.3	1,280.2	1,093.9	186.28	6.872
21,800.0	9,810.5	20,609.7	8,978.8	93.4	91.2	49.24	-11,680.7	-425.7	1,280.2	1,093.2	186.96	6.847
21,850.0	9,810.6	20,659.7	8,978.8	93.8	91.6	49.24	-11,730.7	-426.1	1,280.2	1,092.5	187.72	6.820
21,900.0	9,810.6	20,709.7	8,978.8	94.2	92.0	49.25	-11,780.7	-426.5	1,280.2	1,091.7	188.48	6.792
21,945.0	9,810.6	20,754.7	8,978.9	94.5	92.3	49.25	-11,825.7	-426.9	1,280.2	1,091.0	189.16	6.768
22,000.0	9,810.6	20,809.7	8,978.9	94.9	92.7	49.25	-11,880.7	-427.4	1,280.2	1,090.2	190.00	6.738
22,040.0	9,810.6	20,849.7	8,978.9	95.2	93.0	49.25	-11,920.7	-427.7	1,280.2	1,089.6	190.61	6.716

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,100.0	9,810.7	20,909.7	8,979.0	95.7	93.5	49.25	-11,980.7	-428.2	1,280.2	1,088.6	191.52	6.684	
22,135.0	9,810.7	20,944.7	8,979.0	95.9	93.7	49.25	-12,015.7	-428.5	1,280.2	1,088.1	192.05	6.666	
22,200.0	9,810.7	21,009.7	8,979.0	96.4	94.2	49.25	-12,080.7	-429.0	1,280.1	1,087.1	193.04	6.632	
22,230.0	9,810.7	21,039.7	8,979.0	96.6	94.4	49.25	-12,110.7	-429.3	1,280.1	1,086.7	193.49	6.616	
22,300.0	9,810.7	21,109.7	8,979.1	97.2	95.0	49.25	-12,180.7	-429.8	1,280.1	1,085.6	194.56	6.580	
22,325.0	9,810.7	21,134.7	8,979.1	97.3	95.1	49.25	-12,205.7	-430.0	1,280.1	1,085.2	194.94	6.567	
22,400.0	9,810.8	21,209.7	8,979.1	97.9	95.7	49.25	-12,280.6	-430.7	1,280.1	1,084.0	196.08	6.529	
22,420.0	9,810.8	21,229.7	8,979.2	98.1	95.9	49.25	-12,300.6	-430.8	1,280.1	1,083.7	196.38	6.519	
22,500.0	9,810.8	21,309.7	8,979.2	98.7	96.5	49.25	-12,380.6	-431.5	1,280.1	1,082.5	197.60	6.478	
22,515.0	9,810.8	21,324.7	8,979.2	98.8	96.6	49.25	-12,395.6	-431.6	1,280.1	1,082.3	197.83	6.471	
22,600.0	9,810.9	21,409.7	8,979.3	99.4	97.2	49.25	-12,480.6	-432.3	1,280.1	1,081.0	199.12	6.429	
22,610.0	9,810.9	21,419.7	8,979.3	99.5	97.3	49.25	-12,490.6	-432.4	1,280.1	1,080.8	199.27	6.424	
22,700.0	9,810.9	21,509.7	8,979.3	100.2	98.0	49.25	-12,580.6	-433.1	1,280.1	1,079.4	200.64	6.380	
22,705.0	9,810.9	21,514.7	8,979.3	100.2	98.0	49.25	-12,585.6	-433.2	1,280.1	1,079.4	200.71	6.378	
22,800.0	9,810.9	21,609.7	8,979.4	100.9	98.7	49.25	-12,680.6	-434.0	1,280.1	1,077.9	202.16	6.332	
22,895.0	9,811.0	21,704.7	8,979.4	101.6	99.4	49.25	-12,775.6	-434.7	1,280.1	1,076.4	203.61	6.287	
22,900.0	9,811.0	21,709.7	8,979.4	101.7	99.5	49.25	-12,780.6	-434.8	1,280.1	1,076.4	203.68	6.285	
22,990.0	9,811.0	21,799.7	8,979.5	102.3	100.2	49.25	-12,870.6	-435.5	1,280.0	1,075.0	205.05	6.243	
23,000.0	9,811.0	21,809.7	8,979.5	102.4	100.2	49.25	-12,880.6	-435.6	1,280.0	1,074.8	205.20	6.238	
23,085.0	9,811.0	21,894.7	8,979.6	103.0	100.9	49.25	-12,965.6	-436.3	1,280.0	1,073.5	206.50	6.199	
23,100.0	9,811.1	21,909.7	8,979.6	103.2	101.0	49.25	-12,980.6	-436.4	1,280.0	1,073.3	206.73	6.192	
23,180.0	9,811.1	21,989.7	8,979.6	103.8	101.6	49.25	-13,060.6	-437.1	1,280.0	1,072.1	207.94	6.156	
23,200.0	9,811.1	22,009.7	8,979.6	103.9	101.7	49.25	-13,080.6	-437.3	1,280.0	1,071.8	208.25	6.147	
23,275.0	9,811.1	22,084.7	8,979.7	104.5	102.3	49.25	-13,155.6	-437.9	1,280.0	1,070.6	209.39	6.113	
23,300.0	9,811.1	22,109.7	8,979.7	104.7	102.5	49.25	-13,180.6	-438.1	1,280.0	1,070.2	209.77	6.102	
23,370.0	9,811.2	22,179.7	8,979.7	105.2	103.0	49.26	-13,250.6	-438.7	1,280.0	1,069.1	210.84	6.071	
23,400.0	9,811.2	22,209.7	8,979.7	105.4	103.2	49.26	-13,280.6	-438.9	1,280.0	1,068.7	211.30	6.058	
23,465.0	9,811.2	22,274.7	8,979.8	105.9	103.7	49.26	-13,345.6	-439.5	1,280.0	1,067.7	212.29	6.029	
23,500.0	9,811.2	22,309.7	8,979.8	106.2	104.0	49.26	-13,380.6	-439.7	1,280.0	1,067.2	212.82	6.014	
23,560.0	9,811.2	22,369.7	8,979.8	106.6	104.5	49.26	-13,440.6	-440.2	1,280.0	1,066.2	213.73	5.989	
23,600.0	9,811.2	22,409.7	8,979.9	106.9	104.8	49.26	-13,480.6	-440.6	1,280.0	1,065.6	214.34	5.972	
23,655.0	9,811.3	22,464.7	8,979.9	107.3	105.2	49.26	-13,535.6	-441.0	1,279.9	1,064.8	215.18	5.948	
23,700.0	9,811.3	22,509.7	8,979.9	107.7	105.5	49.26	-13,580.6	-441.4	1,279.9	1,064.1	215.87	5.929	
23,750.0	9,811.3	22,559.7	8,980.0	108.0	105.9	49.26	-13,630.6	-441.8	1,279.9	1,063.3	216.63	5.908	
23,800.0	9,811.3	22,609.7	8,980.0	108.4	106.3	49.26	-13,680.6	-442.2	1,279.9	1,062.5	217.39	5.888	
23,845.0	9,811.3	22,654.7	8,980.0	108.8	106.6	49.26	-13,725.6	-442.6	1,279.9	1,061.8	218.08	5.869	
23,900.0	9,811.4	22,709.7	8,980.0	109.2	107.0	49.26	-13,780.6	-443.0	1,279.9	1,061.0	218.92	5.847	
23,940.0	9,811.4	22,749.7	8,980.1	109.5	107.3	49.26	-13,820.6	-443.4	1,279.9	1,060.4	219.53	5.830	
24,000.0	9,811.4	22,809.7	8,980.1	109.9	107.8	49.26	-13,880.6	-443.9	1,279.9	1,059.5	220.44	5.806	
24,035.0	9,811.4	22,844.7	8,980.1	110.2	108.0	49.26	-13,915.6	-444.2	1,279.9	1,058.9	220.98	5.792	
24,100.0	9,811.4	22,909.7	8,980.2	110.7	108.5	49.26	-13,980.6	-444.7	1,279.9	1,057.9	221.97	5.766	
24,130.0	9,811.5	22,939.7	8,980.2	110.9	108.8	49.26	-14,010.6	-444.9	1,279.9	1,057.5	222.42	5.754	
24,200.0	9,811.5	23,009.7	8,980.2	111.4	109.3	49.26	-14,080.6	-445.5	1,279.9	1,056.4	223.49	5.727	
24,225.0	9,811.5	23,034.7	8,980.2	111.6	109.5	49.26	-14,105.6	-445.7	1,279.9	1,056.0	223.87	5.717	
24,300.0	9,811.5	23,109.7	8,980.3	112.2	110.0	49.26	-14,180.6	-446.4	1,279.9	1,054.8	225.02	5.688	
24,320.0	9,811.5	23,129.7	8,980.3	112.3	110.2	49.26	-14,200.6	-446.5	1,279.9	1,054.5	225.32	5.680	
24,400.0	9,811.6	23,209.7	8,980.3	112.9	110.8	49.26	-14,280.6	-447.2	1,279.8	1,053.3	226.54	5.649	
24,415.0	9,811.6	23,224.7	8,980.4	113.0	110.9	49.26	-14,295.6	-447.3	1,279.8	1,053.1	226.77	5.644	
24,500.0	9,811.6	23,309.7	8,980.4	113.7	111.6	49.26	-14,380.6	-448.0	1,279.8	1,051.8	228.07	5.612	
24,510.0	9,811.6	23,319.7	8,980.4	113.8	111.6	49.26	-14,390.6	-448.1	1,279.8	1,051.6	228.22	5.608	
24,600.0	9,811.6	23,409.7	8,980.5	114.4	112.3	49.26	-14,480.6	-448.8	1,279.8	1,050.2	229.60	5.574	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			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	9,811.6	23,414.7	8,980.5	114.5	112.3	49.26	-14,485.6	-448.9	1,279.8	1,050.1	229.67	5.572		
24,700.0	9,811.7	23,509.7	8,980.5	115.2	113.1	49.26	-14,580.6	-449.7	1,279.8	1,048.7	231.12	5.537		
24,795.0	9,811.7	23,604.7	8,980.6	115.9	113.8	49.27	-14,675.6	-450.4	1,279.8	1,047.2	232.57	5.503		
24,800.0	9,811.7	23,609.7	8,980.6	115.9	113.8	49.27	-14,680.6	-450.5	1,279.8	1,047.1	232.65	5.501		
24,890.0	9,811.8	23,699.7	8,980.6	116.6	114.5	49.27	-14,770.6	-451.2	1,279.8	1,045.8	234.03	5.469		
24,900.0	9,811.8	23,709.7	8,980.6	116.7	114.6	49.27	-14,780.6	-451.3	1,279.8	1,045.6	234.18	5.465		
24,985.0	9,811.8	23,794.7	8,980.7	117.3	115.2	49.27	-14,865.6	-452.0	1,279.8	1,044.3	235.48	5.435		
25,000.0	9,811.8	23,809.7	8,980.7	117.5	115.3	49.27	-14,880.6	-452.1	1,279.8	1,044.1	235.71	5.429		
25,080.0	9,811.8	23,889.7	8,980.8	118.1	115.9	49.27	-14,960.6	-452.8	1,279.8	1,042.8	236.93	5.401		
25,100.0	9,811.8	23,909.7	8,980.8	118.2	116.1	49.27	-14,980.6	-453.0	1,279.7	1,042.5	237.23	5.394		
25,175.0	9,811.9	23,984.7	8,980.8	118.8	116.7	49.27	-15,055.6	-453.6	1,279.7	1,041.4	238.38	5.368		
25,200.0	9,811.9	24,009.7	8,980.8	119.0	116.8	49.27	-15,080.6	-453.8	1,279.7	1,041.0	238.76	5.360		
25,270.0	9,811.9	24,079.7	8,980.9	119.5	117.4	49.27	-15,150.5	-454.4	1,279.7	1,039.9	239.83	5.336		
25,300.0	9,811.9	24,109.7	8,980.9	119.7	117.6	49.27	-15,180.5	-454.6	1,279.7	1,039.4	240.29	5.326		
25,365.0	9,811.9	24,174.7	8,980.9	120.2	118.1	49.27	-15,245.5	-455.2	1,279.7	1,038.4	241.28	5.304		
25,385.3	9,811.9	24,195.1	8,980.9	120.4	118.2	49.27	-15,265.9	-455.3	1,279.7	1,038.1	241.59	5.297		
25,400.0	9,812.0	24,209.7	8,980.9	120.5	118.4	49.27	-15,280.5	-455.4	1,279.7	1,037.9	241.82	5.292		
25,460.0	9,812.0	24,269.7	8,981.0	120.9	118.8	49.27	-15,340.5	-455.9	1,279.7	1,037.0	242.73	5.272		
25,487.6	9,812.0	24,297.3	8,981.0	121.1	119.0	49.27	-15,368.1	-456.2	1,279.7	1,036.5	243.15	5.263		
25,500.0	9,812.0	24,298.5	8,981.0	121.2	119.0	49.27	-15,369.3	-456.2	1,279.7	1,036.5	243.25	5.261		
25,515.5	9,812.0	24,298.5	8,981.0	121.3	119.0	49.27	-15,369.3	-456.2	1,280.0	1,036.6	243.33	5.260 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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	4.0	4.0	3.0	3.0	-169.61	-150.6	-27.6	153.1					
95.0	95.0	99.0	99.0	3.0	3.0	-169.61	-150.6	-27.6	153.1	147.1	6.04	25.358		
100.0	100.0	104.0	104.0	3.0	3.0	-169.61	-150.6	-27.6	153.1	147.1	6.04	25.332		
190.0	190.0	194.0	194.0	3.1	3.1	-169.61	-150.6	-27.6	153.1	146.8	6.27	24.438		
200.0	200.0	204.0	204.0	3.1	3.2	-169.61	-150.6	-27.6	153.1	146.8	6.30	24.313		
285.0	285.0	289.0	289.0	3.3	3.3	-169.61	-150.6	-27.6	153.1	146.6	6.51	23.532		
300.0	300.0	304.0	304.0	3.3	3.3	-169.61	-150.6	-27.6	153.1	146.6	6.55	23.385		
380.0	380.0	384.0	384.0	3.4	3.4	-169.61	-150.6	-27.6	153.1	146.4	6.74	22.707		
400.0	400.0	404.0	404.0	3.4	3.4	-169.61	-150.6	-27.6	153.1	146.3	6.79	22.533		
475.0	475.0	479.0	479.0	3.5	3.5	-169.61	-150.6	-27.6	153.1	146.1	6.98	21.945		
500.0	500.0	504.0	504.0	3.5	3.5	-169.61	-150.6	-27.6	153.1	146.1	7.04	21.747		
570.0	570.0	574.0	574.0	3.6	3.6	-169.61	-150.6	-27.6	153.1	145.9	7.21	21.237		
600.0	600.0	604.0	604.0	3.6	3.6	-169.61	-150.6	-27.6	153.1	145.8	7.28	21.018		
665.0	665.0	669.0	669.0	3.7	3.7	-169.61	-150.6	-27.6	153.1	145.7	7.44	20.577		
700.0	700.0	704.0	704.0	3.8	3.8	-169.61	-150.6	-27.6	153.1	145.6	7.53	20.341		
760.0	760.0	764.0	764.0	3.8	3.8	-169.61	-150.6	-27.6	153.1	145.4	7.67	19.961		
800.0	800.0	804.0	804.0	3.9	3.9	-169.61	-150.6	-27.6	153.1	145.3	7.77	19.709		
855.0	855.0	859.0	859.0	4.0	4.0	-169.61	-150.6	-27.6	153.1	145.2	7.90	19.383		
900.0	900.0	904.0	904.0	4.0	4.0	-169.61	-150.6	-27.6	153.1	145.1	8.01	19.119		
950.0	950.0	954.0	954.0	4.1	4.1	-169.61	-150.6	-27.6	153.1	145.0	8.13	18.840		
1,000.0	1,000.0	1,004.0	1,004.0	4.1	4.1	-169.61	-150.6	-27.6	153.1	144.9	8.25	18.565		
1,045.0	1,045.0	1,049.0	1,049.0	4.2	4.2	-169.61	-150.6	-27.6	153.1	144.8	8.35	18.329		
1,100.0	1,100.0	1,104.0	1,104.0	4.2	4.3	-169.61	-150.6	-27.6	153.1	144.6	8.49	18.045		
1,140.0	1,140.0	1,144.0	1,144.0	4.3	4.3	-169.61	-150.6	-27.6	153.1	144.5	8.58	17.847		
1,200.0	1,200.0	1,204.0	1,204.0	4.4	4.4	-169.61	-150.6	-27.6	153.1	144.4	8.72	17.554		
1,235.0	1,235.0	1,239.0	1,239.0	4.4	4.4	-169.61	-150.6	-27.6	153.1	144.3	8.80	17.391		
1,300.0	1,300.0	1,304.0	1,304.0	4.5	4.5	-169.61	-150.6	-27.6	153.1	144.2	8.96	17.092		
1,330.0	1,330.0	1,334.0	1,334.0	4.5	4.5	-169.61	-150.6	-27.6	153.1	144.1	9.03	16.959		
1,400.0	1,400.0	1,404.0	1,404.0	4.6	4.6	-169.61	-150.6	-27.6	153.1	143.9	9.19	16.654		
1,425.0	1,425.0	1,429.0	1,429.0	4.6	4.6	-169.61	-150.6	-27.6	153.1	143.9	9.25	16.550		
1,500.0	1,500.0	1,504.0	1,504.0	4.7	4.7	-169.61	-150.6	-27.6	153.1	143.7	9.43	16.240		
1,501.4	1,501.4	1,505.5	1,505.5	4.7	4.7	139.59	-150.6	-27.6	153.1	143.7	9.43	16.234 CC		
1,520.0	1,520.0	1,524.3	1,524.3	4.7	4.7	139.65	-150.6	-27.7	153.1	143.7	9.48	16.158 ES		
1,600.0	1,600.0	1,605.0	1,605.0	4.9	4.8	140.70	-149.9	-29.4	154.1	144.4	9.68	15.911		
1,615.0	1,615.0	1,620.1	1,620.1	4.9	4.9	141.05	-149.7	-29.9	154.4	144.7	9.74	15.856		
1,700.0	1,699.8	1,705.4	1,705.2	5.1	5.0	143.82	-147.9	-34.4	157.4	147.4	10.06	15.657		
1,710.0	1,709.8	1,715.4	1,715.2	5.1	5.1	144.23	-147.6	-35.1	157.9	147.8	10.09	15.648 SF		
1,800.0	1,799.5	1,804.7	1,804.1	5.4	5.3	148.60	-144.6	-42.6	164.0	153.5	10.44	15.709		
1,805.0	1,804.4	1,809.6	1,809.0	5.4	5.3	148.88	-144.4	-43.1	164.4	154.0	10.46	15.720		
1,900.0	1,898.7	1,902.3	1,901.0	5.7	5.6	154.50	-140.2	-53.8	174.9	164.1	10.85	16.119		
1,995.0	1,992.5	1,993.2	1,990.8	6.0	5.9	160.54	-135.0	-67.0	190.4	179.2	11.28	16.877		
2,000.0	1,997.5	1,997.9	1,995.4	6.0	5.9	160.86	-134.7	-67.7	191.4	180.1	11.31	16.928		
2,090.0	2,085.8	2,081.8	2,077.8	6.3	6.2	166.48	-128.9	-82.3	211.6	199.9	11.76	18.001		
2,100.0	2,095.6	2,091.0	2,086.8	6.3	6.2	167.09	-128.2	-84.1	214.2	202.4	11.81	18.141		
2,185.0	2,178.5	2,167.8	2,161.7	6.6	6.5	171.98	-122.1	-99.6	238.9	226.6	12.27	19.469		
2,200.0	2,193.1	2,181.1	2,174.7	6.7	6.5	172.79	-120.9	-102.5	243.7	231.4	12.35	19.733		
2,280.0	2,270.7	2,253.5	2,245.0	6.9	6.8	176.92	-114.5	-118.7	270.8	258.0	12.76	21.226		
2,300.0	2,290.1	2,271.8	2,262.7	7.0	6.8	177.85	-112.8	-122.9	277.8	264.9	12.86	21.596		
2,375.0	2,362.9	2,340.2	2,329.1	7.2	7.1	-179.06	-106.7	-138.3	304.4	291.2	13.27	22.947		
2,400.0	2,387.1	2,363.1	2,351.3	7.3	7.1	-178.14	-104.7	-143.4	313.5	300.1	13.40	23.388		
2,470.0	2,455.0	2,427.0	2,413.3	7.5	7.3	-175.81	-99.0	-157.8	339.1	325.3	13.80	24.576		

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
2,500.0	2,484.1	2,454.4	2,439.8	7.6	7.4	-174.92	-96.6	-163.9	350.3	336.3	13.97	25.070	
2,565.0	2,547.2	2,513.7	2,497.4	7.9	7.6	-173.16	-91.3	-177.3	374.7	360.3	14.36	26.096	
2,600.0	2,581.2	2,545.6	2,528.4	8.0	7.8	-172.30	-88.4	-184.5	387.9	373.3	14.57	26.628	
2,660.0	2,639.4	2,600.4	2,581.6	8.2	8.0	-170.96	-83.5	-196.8	410.8	395.8	14.94	27.503	
2,700.0	2,678.2	2,636.9	2,617.0	8.4	8.1	-170.14	-80.3	-205.0	426.1	410.9	15.18	28.062	
2,755.0	2,731.6	2,687.1	2,665.7	8.6	8.3	-169.10	-75.8	-216.3	447.3	431.8	15.53	28.798	
2,800.0	2,775.2	2,728.2	2,705.6	8.8	8.4	-168.33	-72.1	-225.5	464.7	448.9	15.82	29.376	
2,850.0	2,823.7	2,773.9	2,749.9	9.0	8.6	-167.53	-68.1	-235.8	484.2	468.1	16.15	29.989	
2,900.0	2,872.3	2,819.5	2,794.2	9.2	8.8	-166.79	-64.0	-246.1	503.7	487.3	16.47	30.578	
2,945.0	2,915.9	2,860.6	2,834.0	9.3	9.0	-166.17	-60.3	-255.3	521.4	504.6	16.77	31.082	
3,000.0	2,969.3	2,910.8	2,882.7	9.6	9.2	-165.47	-55.9	-266.6	543.0	525.8	17.14	31.675	
3,040.0	3,008.1	2,947.3	2,918.2	9.7	9.3	-164.99	-52.6	-274.8	558.8	541.3	17.41	32.085	
3,100.0	3,066.3	3,002.1	2,971.3	10.0	9.5	-164.33	-47.7	-287.1	582.5	564.6	17.82	32.678	
3,135.0	3,100.3	3,034.1	3,002.3	10.1	9.7	-163.96	-44.9	-294.3	596.3	578.3	18.07	33.007	
3,200.0	3,163.3	3,093.4	3,059.9	10.4	9.9	-163.33	-39.6	-307.7	622.1	603.6	18.52	33.595	
3,230.0	3,192.5	3,120.8	3,086.5	10.5	10.0	-163.05	-37.1	-313.8	634.0	615.3	18.73	33.853	
3,300.0	3,260.4	3,184.7	3,148.5	10.8	10.3	-162.45	-31.4	-328.2	661.9	642.7	19.22	34.434	
3,325.0	3,284.6	3,207.5	3,170.6	10.9	10.4	-162.24	-29.4	-333.3	671.9	652.5	19.40	34.632	
3,400.0	3,357.4	3,276.0	3,237.1	11.2	10.7	-161.66	-23.3	-348.7	701.8	681.9	19.94	35.203	
3,420.0	3,376.8	3,294.2	3,254.8	11.3	10.8	-161.52	-21.7	-352.8	709.8	689.7	20.08	35.349	
3,500.0	3,454.4	3,367.3	3,325.6	11.7	11.1	-160.97	-15.2	-369.3	741.8	721.1	20.66	35.909	
3,515.0	3,469.0	3,381.0	3,338.9	11.7	11.1	-160.87	-13.9	-372.4	747.8	727.0	20.77	36.010	
3,600.0	3,551.5	3,458.6	3,414.2	12.1	11.5	-160.34	-7.0	-389.8	781.9	760.5	21.39	36.559	
3,610.0	3,561.2	3,467.7	3,423.1	12.2	11.5	-160.28	-6.2	-391.9	785.9	764.4	21.46	36.621	
3,700.0	3,648.5	3,549.9	3,502.8	12.6	11.9	-159.77	1.1	-410.3	822.0	799.9	22.12	37.158	
3,705.0	3,653.3	3,554.4	3,507.2	12.6	11.9	-159.75	1.5	-411.4	824.1	801.9	22.16	37.187	
3,800.0	3,745.5	3,641.2	3,591.4	13.0	12.3	-159.26	9.3	-430.9	862.3	839.4	22.87	37.711	
3,895.0	3,837.7	3,727.9	3,675.5	13.4	12.7	-158.81	17.0	-450.4	900.5	876.9	23.58	38.198	
3,900.0	3,842.6	3,732.4	3,680.0	13.5	12.7	-158.79	17.4	-451.4	902.5	878.9	23.61	38.223	
3,990.0	3,929.9	3,814.6	3,759.7	13.9	13.0	-158.40	24.7	-469.9	938.8	914.5	24.29	38.651	
4,000.0	3,939.6	3,823.7	3,768.5	13.9	13.1	-158.36	25.5	-472.0	942.9	918.5	24.37	38.697	
4,085.0	4,022.1	3,901.3	3,843.8	14.3	13.4	-158.03	32.5	-489.4	977.2	952.2	25.01	39.073	
4,100.0	4,036.6	3,915.0	3,857.1	14.4	13.5	-157.97	33.7	-492.5	983.2	958.1	25.12	39.137	
4,180.0	4,114.2	3,988.1	3,928.0	14.7	13.8	-157.68	40.2	-508.9	1,015.5	989.8	25.73	39.467	
4,200.0	4,133.6	4,006.3	3,945.7	14.8	13.9	-157.61	41.8	-513.0	1,023.6	997.7	25.88	39.547	
4,275.0	4,206.4	4,074.8	4,012.1	15.2	14.2	-157.35	47.9	-528.4	1,053.9	1,027.5	26.46	39.835	
4,300.0	4,230.7	4,097.6	4,034.3	15.3	14.3	-157.27	50.0	-533.6	1,064.0	1,037.4	26.65	39.928	
4,370.0	4,298.6	4,161.5	4,096.3	15.6	14.6	-157.05	55.7	-547.9	1,092.4	1,065.2	27.19	40.180	
4,400.0	4,327.7	4,188.9	4,122.9	15.7	14.7	-156.96	58.1	-554.1	1,104.5	1,077.1	27.42	40.284	
4,465.0	4,390.8	4,248.3	4,180.4	16.0	15.0	-156.77	63.4	-567.4	1,130.8	1,102.9	27.92	40.503	
4,500.0	4,424.7	4,280.2	4,211.4	16.2	15.2	-156.67	66.2	-574.6	1,145.0	1,116.8	28.19	40.617	
4,537.3	4,460.9	4,314.2	4,244.5	16.4	15.3	-156.57	69.3	-582.3	1,160.1	1,131.6	28.47	40.751	
4,560.0	4,483.0	4,335.0	4,264.6	16.5	15.4	-156.59	71.1	-587.0	1,169.2	1,140.6	28.64	40.824	
4,600.0	4,521.9	4,371.7	4,300.3	16.6	15.6	-156.60	74.4	-595.2	1,184.9	1,156.0	28.94	40.938	
4,655.0	4,575.7	4,422.5	4,349.5	16.9	15.8	-156.61	78.9	-606.6	1,205.7	1,176.4	29.38	41.039	
4,700.0	4,619.8	4,464.3	4,390.1	17.1	16.0	-156.59	82.6	-616.0	1,222.1	1,192.4	29.74	41.096	
4,750.0	4,669.0	4,511.0	4,435.4	17.4	16.2	-156.56	86.8	-626.5	1,239.6	1,209.5	30.13	41.140	
4,800.0	4,718.4	4,557.9	4,480.9	17.6	16.5	-156.50	91.0	-637.1	1,256.4	1,225.8	30.53	41.157	
4,845.0	4,762.9	4,600.4	4,522.1	17.8	16.7	-156.44	94.8	-646.7	1,270.8	1,239.9	30.87	41.160	
4,900.0	4,817.5	4,656.3	4,576.4	18.0	16.9	-156.33	99.8	-659.2	1,287.6	1,256.3	31.32	41.114	
4,940.0	4,857.2	4,702.9	4,621.7	18.2	17.1	-156.21	103.8	-669.3	1,299.1	1,267.4	31.68	41.005	

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

ConocoPhillips
Anticollision Report

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Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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:						
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
5,000.0	4,916.9	4,773.4	4,690.3	18.4	17.4	-156.03	109.6	-684.1	1,314.9	1,282.6	32.24	40.787		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	3.9	3.9	3.0	3.0	-159.13	-151.1	-57.6	161.7					
95.0	95.0	98.9	98.9	3.0	3.0	-159.13	-151.1	-57.6	161.7	155.7	6.04	26.782		
100.0	100.0	103.9	103.9	3.0	3.0	-159.13	-151.1	-57.6	161.7	155.7	6.04	26.755		
190.0	190.0	193.9	193.9	3.1	3.1	-159.13	-151.1	-57.6	161.7	155.4	6.26	25.814		
200.0	200.0	203.9	203.9	3.1	3.2	-159.13	-151.1	-57.6	161.7	155.4	6.30	25.681		
285.0	285.0	288.9	288.9	3.3	3.3	-159.13	-151.1	-57.6	161.7	155.2	6.50	24.861		
300.0	300.0	303.9	303.9	3.3	3.3	-159.13	-151.1	-57.6	161.7	155.2	6.55	24.706		
380.0	380.0	383.9	383.9	3.4	3.4	-159.13	-151.1	-57.6	161.7	155.0	6.74	23.995		
400.0	400.0	403.9	403.9	3.4	3.4	-159.13	-151.1	-57.6	161.7	154.9	6.79	23.813		
475.0	475.0	478.9	478.9	3.5	3.5	-159.13	-151.1	-57.6	161.7	154.7	6.97	23.197		
500.0	500.0	503.9	503.9	3.5	3.5	-159.13	-151.1	-57.6	161.7	154.7	7.03	22.989		
570.0	570.0	573.9	573.9	3.6	3.6	-159.13	-151.1	-57.6	161.7	154.5	7.20	22.456		
600.0	600.0	603.9	603.9	3.6	3.6	-159.13	-151.1	-57.6	161.7	154.4	7.28	22.227		
665.0	665.0	668.9	668.9	3.7	3.7	-159.13	-151.1	-57.6	161.7	154.3	7.43	21.767		
700.0	700.0	703.9	703.9	3.8	3.8	-159.13	-151.1	-57.6	161.7	154.2	7.51	21.520		
760.0	760.0	763.9	763.9	3.8	3.8	-159.13	-151.1	-57.6	161.7	154.1	7.66	21.123		
800.0	800.0	803.9	803.9	3.9	3.9	-159.13	-151.1	-57.6	161.7	154.0	7.75	20.861		
855.0	855.0	858.9	858.9	4.0	4.0	-159.13	-151.1	-57.6	161.7	153.8	7.88	20.520		
900.0	900.0	903.9	903.9	4.0	4.0	-159.13	-151.1	-57.6	161.7	153.7	7.99	20.245		
950.0	950.0	953.9	953.9	4.1	4.1	-159.13	-151.1	-57.6	161.7	153.6	8.10	19.954		
1,000.0	1,000.0	1,003.9	1,003.9	4.1	4.1	-159.13	-151.1	-57.6	161.7	153.5	8.22	19.668		
1,045.0	1,045.0	1,048.9	1,048.9	4.2	4.2	-159.13	-151.1	-57.6	161.7	153.4	8.33	19.422		
1,100.0	1,100.0	1,103.9	1,103.9	4.2	4.2	-159.13	-151.1	-57.6	161.7	153.3	8.45	19.126		
1,140.0	1,140.0	1,143.9	1,143.9	4.3	4.3	-159.13	-151.1	-57.6	161.7	153.2	8.55	18.920		
1,200.0	1,200.0	1,203.9	1,203.9	4.4	4.4	-159.13	-151.1	-57.6	161.7	153.0	8.69	18.615		
1,235.0	1,235.0	1,238.9	1,238.9	4.4	4.4	-159.13	-151.1	-57.6	161.7	152.9	8.77	18.445		
1,300.0	1,300.0	1,303.9	1,303.9	4.5	4.5	-159.13	-151.1	-57.6	161.7	152.8	8.92	18.134		
1,330.0	1,330.0	1,333.9	1,333.9	4.5	4.5	-159.13	-151.1	-57.6	161.7	152.7	8.99	17.995		
1,400.0	1,400.0	1,403.9	1,403.9	4.6	4.6	-159.13	-151.1	-57.6	161.7	152.6	9.15	17.678		
1,425.0	1,425.0	1,428.9	1,428.9	4.6	4.6	-159.13	-151.1	-57.6	161.7	152.5	9.20	17.569		
1,436.1	1,436.1	1,440.0	1,440.0	4.6	4.6	-159.13	-151.1	-57.6	161.7	152.5	9.23	17.521 CC		
1,500.0	1,500.0	1,503.9	1,503.9	4.7	4.7	-159.13	-151.1	-57.6	161.7	152.3	9.38	17.247 ES		
1,520.0	1,520.0	1,523.7	1,523.7	4.7	4.7	150.12	-151.1	-57.7	161.8	152.4	9.43	17.163		
1,600.0	1,600.0	1,603.1	1,603.1	4.9	4.8	151.00	-150.7	-59.4	163.5	153.8	9.64	16.954		
1,615.0	1,615.0	1,617.9	1,617.9	4.9	4.9	151.29	-150.5	-60.0	164.0	154.4	9.70	16.914		
1,700.0	1,699.8	1,701.7	1,701.5	5.1	5.0	153.57	-149.4	-64.5	169.0	158.9	10.03	16.850 SF		
1,710.0	1,709.8	1,711.5	1,711.3	5.1	5.0	153.90	-149.2	-65.2	169.8	159.7	10.07	16.861		
1,800.0	1,799.5	1,799.2	1,798.6	5.4	5.2	157.39	-147.4	-72.8	178.8	168.4	10.43	17.139		
1,805.0	1,804.4	1,804.0	1,803.4	5.4	5.3	157.61	-147.3	-73.3	179.5	169.0	10.46	17.163		
1,900.0	1,898.7	1,895.0	1,893.7	5.7	5.5	161.99	-144.6	-84.0	193.8	182.9	10.88	17.821		
1,995.0	1,992.5	1,984.0	1,981.7	6.0	5.8	166.58	-141.4	-97.2	213.4	202.1	11.33	18.829		
2,000.0	1,997.5	1,988.6	1,986.2	6.0	5.8	166.82	-141.2	-98.0	214.6	203.2	11.36	18.892		
2,090.0	2,085.8	2,070.7	2,066.9	6.3	6.1	171.05	-137.6	-112.6	238.6	226.8	11.83	20.170		
2,100.0	2,095.6	2,079.6	2,075.7	6.3	6.2	171.50	-137.2	-114.4	241.6	229.7	11.88	20.331		
2,185.0	2,178.5	2,154.7	2,149.0	6.6	6.4	175.16	-133.4	-129.9	269.5	257.1	12.35	21.814		
2,200.0	2,193.1	2,167.7	2,161.7	6.7	6.5	175.78	-132.7	-132.8	274.9	262.4	12.44	22.101		
2,280.0	2,270.7	2,238.4	2,230.3	6.9	6.7	178.91	-128.7	-149.3	304.7	291.9	12.85	23.717		
2,300.0	2,290.1	2,256.6	2,247.9	7.0	6.8	179.63	-127.6	-153.6	312.4	299.4	12.96	24.111		
2,375.0	2,362.9	2,324.5	2,313.9	7.2	7.0	-177.94	-123.7	-169.5	341.3	328.0	13.37	25.534		
2,400.0	2,387.1	2,347.2	2,335.9	7.3	7.1	-177.22	-122.4	-174.9	351.1	337.6	13.51	25.992		
2,470.0	2,455.0	2,410.6	2,397.4	7.5	7.3	-175.40	-118.8	-189.8	378.6	364.7	13.91	27.217		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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	2,484.1	2,437.8	2,423.8	7.6	7.4	-174.69	-117.2	-196.1	390.5	376.4	14.09	27.721	
2,565.0	2,547.2	2,496.7	2,480.9	7.9	7.6	-173.30	-113.8	-210.0	416.5	402.0	14.48	28.763	
2,600.0	2,581.2	2,528.4	2,511.7	8.0	7.7	-172.62	-112.0	-217.4	430.5	415.8	14.69	29.299	
2,660.0	2,639.4	2,582.8	2,564.5	8.2	7.9	-171.54	-108.9	-230.2	454.7	439.6	15.07	30.174	
2,700.0	2,678.2	2,619.0	2,599.6	8.4	8.0	-170.89	-106.8	-238.7	470.9	455.6	15.32	30.733	
2,755.0	2,731.6	2,668.9	2,648.0	8.6	8.2	-170.06	-103.9	-250.5	493.2	477.6	15.68	31.461	
2,800.0	2,775.2	2,709.7	2,687.6	8.8	8.4	-169.43	-101.6	-260.0	511.6	495.6	15.97	32.033	
2,850.0	2,823.7	2,755.0	2,731.5	9.0	8.5	-168.79	-99.0	-270.7	532.0	515.7	16.30	32.633	
2,900.0	2,872.3	2,800.3	2,775.5	9.2	8.7	-168.19	-96.4	-281.3	552.5	535.9	16.64	33.211	
2,945.0	2,915.9	2,841.1	2,815.1	9.3	8.9	-167.68	-94.0	-290.9	571.0	554.1	16.94	33.701	
3,000.0	2,969.3	2,890.9	2,863.4	9.6	9.1	-167.11	-91.2	-302.6	593.6	576.3	17.32	34.277	
3,040.0	3,008.1	2,927.1	2,898.6	9.7	9.2	-166.72	-89.1	-311.2	610.1	592.5	17.60	34.674	
3,100.0	3,066.3	2,981.5	2,951.3	10.0	9.4	-166.18	-86.0	-323.9	634.9	616.9	18.01	35.244	
3,135.0	3,100.3	3,013.2	2,982.1	10.1	9.6	-165.88	-84.2	-331.4	649.4	631.1	18.26	35.561	
3,200.0	3,163.3	3,072.1	3,039.3	10.4	9.8	-165.35	-80.8	-345.2	676.3	657.6	18.72	36.123	
3,230.0	3,192.5	3,099.3	3,065.7	10.5	9.9	-165.12	-79.2	-351.6	688.7	669.8	18.94	36.371	
3,300.0	3,260.4	3,162.8	3,127.2	10.8	10.2	-164.62	-75.6	-366.5	717.8	698.4	19.44	36.923	
3,325.0	3,284.6	3,185.4	3,149.2	10.9	10.3	-164.45	-74.3	-371.8	728.2	708.6	19.62	37.111	
3,400.0	3,357.4	3,253.4	3,215.1	11.2	10.6	-163.97	-70.4	-387.8	759.4	739.2	20.17	37.652	
3,420.0	3,376.8	3,271.5	3,232.7	11.3	10.6	-163.85	-69.3	-392.1	767.7	747.4	20.32	37.789	
3,500.0	3,454.4	3,344.0	3,303.1	11.7	11.0	-163.39	-65.1	-409.1	801.1	780.2	20.91	38.318	
3,515.0	3,469.0	3,357.6	3,316.2	11.7	11.0	-163.31	-64.4	-412.3	807.3	786.3	21.02	38.412	
3,600.0	3,551.5	3,434.6	3,391.0	12.1	11.4	-162.87	-59.9	-430.4	842.8	821.1	21.65	38.927	
3,610.0	3,561.2	3,443.7	3,399.8	12.2	11.4	-162.82	-59.4	-432.5	847.0	825.2	21.73	38.985	
3,700.0	3,648.5	3,525.2	3,478.9	12.6	11.7	-162.39	-54.7	-451.7	884.6	862.2	22.40	39.486	
3,705.0	3,653.3	3,529.8	3,483.3	12.6	11.8	-162.37	-54.5	-452.8	886.7	864.2	22.44	39.513	
3,800.0	3,745.5	3,615.8	3,566.8	13.0	12.1	-161.96	-49.5	-473.0	926.4	903.2	23.16	40.000	
3,895.0	3,837.7	3,701.9	3,650.4	13.4	12.5	-161.58	-44.6	-493.2	966.2	942.3	23.88	40.451	
3,900.0	3,842.6	3,706.5	3,654.8	13.5	12.6	-161.56	-44.3	-494.3	968.3	944.3	23.92	40.474	
3,990.0	3,929.9	3,788.0	3,733.9	13.9	12.9	-161.23	-39.6	-513.5	1,006.0	981.3	24.61	40.868	
4,000.0	3,939.6	3,797.1	3,742.7	13.9	13.0	-161.20	-39.1	-515.6	1,010.2	985.5	24.69	40.911	
4,085.0	4,022.1	3,874.1	3,817.4	14.3	13.3	-160.91	-34.7	-533.7	1,045.8	1,020.4	25.35	41.256	
4,100.0	4,036.6	3,887.7	3,830.6	14.4	13.4	-160.86	-33.9	-536.9	1,052.1	1,026.6	25.46	41.315	
4,180.0	4,114.2	3,960.2	3,901.0	14.7	13.7	-160.61	-29.7	-553.9	1,085.6	1,059.6	26.09	41.616	
4,200.0	4,133.6	3,978.3	3,918.6	14.8	13.8	-160.55	-28.7	-558.2	1,094.0	1,067.8	26.24	41.689	
4,275.0	4,206.4	4,046.3	3,984.5	15.2	14.1	-160.34	-24.8	-574.2	1,125.5	1,098.7	26.83	41.952	
4,300.0	4,230.7	4,068.9	4,006.5	15.3	14.2	-160.27	-23.5	-579.5	1,136.0	1,109.0	27.02	42.037	
4,370.0	4,298.6	4,132.4	4,068.0	15.6	14.5	-160.08	-19.8	-594.4	1,165.4	1,137.8	27.57	42.266	
4,400.0	4,327.7	4,159.6	4,094.4	15.7	14.6	-160.00	-18.3	-600.8	1,178.0	1,150.2	27.81	42.361	
4,465.0	4,390.8	4,218.5	4,151.6	16.0	14.9	-159.84	-14.9	-614.6	1,205.3	1,177.0	28.32	42.559	
4,500.0	4,424.7	4,250.2	4,182.3	16.2	15.0	-159.75	-13.1	-622.1	1,220.0	1,191.4	28.60	42.662	
4,537.3	4,460.9	4,284.0	4,215.1	16.4	15.2	-159.67	-11.1	-630.0	1,235.7	1,206.8	28.88	42.784	
4,560.0	4,483.0	4,304.6	4,235.1	16.5	15.3	-159.68	-9.9	-634.9	1,245.2	1,216.1	29.06	42.851	
4,600.0	4,521.9	4,341.1	4,270.5	16.6	15.4	-159.71	-7.9	-643.4	1,261.5	1,232.1	29.37	42.952	
4,655.0	4,575.7	4,391.5	4,319.5	16.9	15.7	-159.72	-5.0	-655.3	1,283.2	1,253.3	29.82	43.036	
4,700.0	4,619.8	4,433.1	4,359.8	17.1	15.9	-159.72	-2.6	-665.1	1,300.2	1,270.0	30.18	43.078	
4,750.0	4,669.0	4,479.5	4,404.9	17.4	16.1	-159.70	0.1	-676.0	1,318.4	1,287.8	30.58	43.106	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-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	-30.0	30.0				
95.0	95.0	94.4	94.4	3.0	3.0	-91.15	-0.6	-30.0	30.0	24.0	6.04	4.971	
100.0	100.0	99.4	99.4	3.0	3.0	-91.15	-0.6	-30.0	30.0	24.0	6.04	4.967	
190.0	190.0	189.4	189.4	3.1	3.1	-91.15	-0.6	-30.0	30.0	23.8	6.25	4.800	
200.0	200.0	199.4	199.4	3.1	3.1	-91.15	-0.6	-30.0	30.0	23.7	6.29	4.774	
285.0	285.0	284.4	284.4	3.3	3.2	-91.15	-0.6	-30.0	30.0	23.5	6.48	4.629	
300.0	300.0	299.4	299.4	3.3	3.3	-91.15	-0.6	-30.0	30.0	23.5	6.52	4.601	
380.0	380.0	379.4	379.4	3.4	3.4	-91.15	-0.6	-30.0	30.0	23.3	6.70	4.478	
400.0	400.0	399.4	399.4	3.4	3.4	-91.15	-0.6	-30.0	30.0	23.3	6.75	4.446	
475.0	475.0	474.4	474.4	3.5	3.5	-91.15	-0.6	-30.0	30.0	23.1	6.91	4.341	
500.0	500.0	499.4	499.4	3.5	3.5	-91.15	-0.6	-30.0	30.0	23.0	6.97	4.305	
570.0	570.0	569.4	569.4	3.6	3.6	-91.15	-0.6	-30.0	30.0	22.9	7.12	4.216	
600.0	600.0	599.4	599.4	3.6	3.6	-91.15	-0.6	-30.0	30.0	22.8	7.18	4.177	
665.0	665.0	664.4	664.4	3.7	3.7	-91.15	-0.6	-30.0	30.0	22.7	7.32	4.101	
700.0	700.0	699.4	699.4	3.8	3.8	-91.15	-0.6	-30.0	30.0	22.6	7.39	4.060	
760.0	760.0	759.4	759.4	3.8	3.8	-91.15	-0.6	-30.0	30.0	22.5	7.51	3.995	
800.0	800.0	799.4	799.4	3.9	3.9	-91.15	-0.6	-30.0	30.0	22.4	7.59	3.952	
855.0	855.0	854.4	854.4	4.0	3.9	-91.15	-0.6	-30.0	30.0	22.3	7.70	3.897	
900.0	900.0	899.4	899.4	4.0	4.0	-91.15	-0.6	-30.0	30.0	22.2	7.79	3.852	
950.0	950.0	949.4	949.4	4.1	4.1	-91.15	-0.6	-30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	999.4	999.4	4.1	4.1	-91.15	-0.6	-30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,044.4	1,044.4	4.2	4.2	-91.15	-0.6	-30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,099.4	1,099.4	4.2	4.2	-91.15	-0.6	-30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,139.4	1,139.4	4.3	4.3	-91.15	-0.6	-30.0	30.0	21.8	8.24	3.641	
1,200.0	1,200.0	1,199.4	1,199.4	4.4	4.4	-91.15	-0.6	-30.0	30.0	21.7	8.35	3.593	
1,235.0	1,235.0	1,234.4	1,234.4	4.4	4.4	-91.15	-0.6	-30.0	30.0	21.6	8.41	3.566	
1,300.0	1,300.0	1,299.4	1,299.4	4.5	4.5	-91.15	-0.6	-30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,329.4	1,329.4	4.5	4.5	-91.15	-0.6	-30.0	30.0	21.4	8.58	3.496	
1,400.0	1,400.0	1,399.4	1,399.4	4.6	4.6	-91.15	-0.6	-30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,424.4	1,424.4	4.6	4.6	-91.15	-0.6	-30.0	30.0	21.3	8.75	3.429	
1,500.0	1,500.0	1,499.4	1,499.4	4.7	4.7	-91.15	-0.6	-30.0	30.0	21.1	8.88	3.379 CC, ES	
1,520.0	1,520.0	1,519.3	1,519.3	4.7	4.8	-141.91	-0.5	-30.0	30.1	21.2	8.93	3.370 SF	
1,600.0	1,600.0	1,598.9	1,598.9	4.9	4.9	-141.02	1.0	-30.7	32.1	22.9	9.13	3.512	
1,615.0	1,615.0	1,613.9	1,613.8	4.9	4.9	-140.75	1.5	-30.9	32.7	23.5	9.19	3.562	
1,700.0	1,699.8	1,698.2	1,698.1	5.1	5.2	-138.80	5.6	-32.8	38.3	28.7	9.54	4.014	
1,710.0	1,709.8	1,708.1	1,707.9	5.1	5.2	-138.55	6.3	-33.1	39.1	29.6	9.58	4.085	
1,800.0	1,799.5	1,797.0	1,796.4	5.4	5.4	-136.33	13.4	-36.4	48.7	38.8	9.95	4.894	
1,805.0	1,804.4	1,801.9	1,801.3	5.4	5.4	-136.21	13.9	-36.6	49.3	39.4	9.97	4.947	
1,900.0	1,898.7	1,894.9	1,893.7	5.7	5.7	-134.19	24.1	-41.3	63.3	53.0	10.37	6.106	
1,995.0	1,992.5	1,987.0	1,984.7	6.0	6.0	-132.58	37.0	-47.1	81.1	70.3	10.78	7.521	
2,000.0	1,997.5	1,991.8	1,989.4	6.0	6.0	-132.50	37.7	-47.4	82.1	71.3	10.80	7.602	
2,090.0	2,085.8	2,078.5	2,074.6	6.3	6.2	-131.37	52.3	-54.0	102.5	91.3	11.13	9.209	
2,100.0	2,095.6	2,088.2	2,084.2	6.3	6.2	-131.30	54.0	-54.8	104.9	93.7	11.16	9.395	
2,185.0	2,178.5	2,170.5	2,164.9	6.6	6.5	-131.25	68.2	-61.3	126.3	114.7	11.54	10.941	
2,200.0	2,193.1	2,185.0	2,179.2	6.7	6.5	-131.32	70.8	-62.5	130.2	118.6	11.61	11.216	
2,280.0	2,270.7	2,262.1	2,254.8	6.9	6.7	-131.96	84.2	-68.5	151.3	139.4	11.96	12.654	
2,300.0	2,290.1	2,281.4	2,273.8	7.0	6.8	-132.09	87.5	-70.1	156.6	144.6	12.05	13.000	
2,375.0	2,362.9	2,353.7	2,344.8	7.2	7.0	-132.52	100.1	-75.8	176.5	164.1	12.39	14.244	
2,400.0	2,387.1	2,377.8	2,368.4	7.3	7.1	-132.64	104.2	-77.7	183.1	170.6	12.50	14.643	
2,470.0	2,455.0	2,445.3	2,434.7	7.5	7.3	-132.94	116.0	-83.0	201.6	188.8	12.83	15.710	
2,500.0	2,484.1	2,474.2	2,463.1	7.6	7.4	-133.05	121.0	-85.3	209.6	196.6	12.98	16.150	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,565.0	2,547.2	2,536.9	2,524.6	7.9	7.6	-133.27	131.9	-90.3	226.8	213.5	13.29	17.061		
2,600.0	2,581.2	2,570.7	2,557.7	8.0	7.7	-133.37	137.7	-92.9	236.1	222.6	13.46	17.532		
2,660.0	2,639.4	2,628.5	2,614.5	8.2	8.0	-133.53	147.8	-97.5	252.0	238.2	13.76	18.305		
2,700.0	2,678.2	2,667.1	2,652.4	8.4	8.1	-133.63	154.5	-100.5	262.5	248.6	13.97	18.800		
2,755.0	2,731.6	2,720.1	2,704.4	8.6	8.3	-133.75	163.7	-104.7	277.1	262.9	14.25	19.452		
2,800.0	2,775.2	2,763.5	2,747.0	8.8	8.4	-133.83	171.2	-108.1	289.0	274.6	14.48	19.964		
2,850.0	2,823.7	2,811.7	2,794.4	9.0	8.6	-133.92	179.6	-112.0	302.3	287.5	14.74	20.510		
2,900.0	2,872.3	2,859.9	2,841.7	9.2	8.8	-134.01	188.0	-115.8	315.5	300.5	15.00	21.034		
2,945.0	2,915.9	2,903.3	2,884.3	9.3	9.0	-134.08	195.5	-119.2	327.5	312.2	15.24	21.487		
3,000.0	2,969.3	2,956.4	2,936.3	9.6	9.2	-134.15	204.7	-123.4	342.0	326.5	15.53	22.018		
3,040.0	3,008.1	2,994.9	2,974.2	9.7	9.3	-134.21	211.4	-126.4	352.6	336.9	15.75	22.389		
3,100.0	3,066.3	3,052.8	3,031.0	10.0	9.6	-134.28	221.5	-131.0	368.5	352.5	16.08	22.925		
3,135.0	3,100.3	3,086.5	3,064.1	10.1	9.7	-134.32	227.3	-133.7	377.8	361.5	16.27	23.225		
3,200.0	3,163.3	3,149.2	3,125.6	10.4	9.9	-134.39	238.2	-138.6	395.0	378.4	16.62	23.762		
3,230.0	3,192.5	3,178.1	3,154.0	10.5	10.1	-134.42	243.2	-140.9	403.0	386.2	16.79	23.999		
3,300.0	3,260.4	3,245.6	3,220.3	10.8	10.3	-134.48	255.0	-146.2	421.5	404.4	17.18	24.535		
3,325.0	3,284.6	3,269.7	3,243.9	10.9	10.4	-134.50	259.1	-148.1	428.2	410.8	17.32	24.718		
3,400.0	3,357.4	3,342.0	3,314.9	11.2	10.7	-134.57	271.7	-153.8	448.0	430.3	17.74	25.250		
3,420.0	3,376.8	3,361.3	3,333.9	11.3	10.8	-134.58	275.1	-155.4	453.3	435.5	17.86	25.386		
3,500.0	3,454.4	3,438.5	3,409.6	11.7	11.1	-134.64	288.5	-161.5	474.5	456.2	18.31	25.913		
3,515.0	3,469.0	3,452.9	3,423.8	11.7	11.2	-134.65	291.0	-162.6	478.5	460.1	18.40	26.009		
3,600.0	3,551.5	3,534.9	3,504.2	12.1	11.5	-134.71	305.2	-169.1	501.0	482.2	18.89	26.530		
3,610.0	3,561.2	3,544.5	3,513.7	12.2	11.6	-134.71	306.9	-169.8	503.7	484.8	18.94	26.589		
3,700.0	3,648.5	3,631.3	3,598.9	12.6	11.9	-134.77	321.9	-176.7	527.6	508.1	19.46	27.103		
3,705.0	3,653.3	3,636.1	3,603.6	12.6	12.0	-134.77	322.8	-177.1	528.9	509.4	19.49	27.130		
3,800.0	3,745.5	3,727.7	3,693.5	13.0	12.3	-134.82	338.7	-184.3	554.1	534.0	20.05	27.637		
3,895.0	3,837.7	3,819.3	3,783.5	13.4	12.7	-134.87	354.6	-191.5	579.2	558.6	20.61	28.111		
3,900.0	3,842.6	3,824.1	3,788.2	13.5	12.8	-134.87	355.4	-191.9	580.6	559.9	20.63	28.135		
3,990.0	3,929.9	3,910.9	3,873.4	13.9	13.1	-134.91	370.5	-198.8	604.4	583.3	21.17	28.556		
4,000.0	3,939.6	3,920.6	3,882.8	13.9	13.2	-134.91	372.2	-199.5	607.1	585.8	21.23	28.601		
4,085.0	4,022.1	4,002.5	3,963.3	14.3	13.5	-134.95	386.4	-206.0	629.6	607.9	21.73	28.974		
4,100.0	4,036.6	4,017.0	3,977.5	14.4	13.6	-134.95	388.9	-207.2	633.6	611.8	21.82	29.038		
4,180.0	4,114.2	4,094.1	4,053.2	14.7	13.9	-134.98	402.3	-213.3	654.8	632.5	22.29	29.370		
4,200.0	4,133.6	4,115.4	4,074.1	14.8	14.0	-135.00	406.0	-214.9	660.1	637.6	22.42	29.434		
4,275.0	4,206.4	4,197.1	4,154.6	15.2	14.4	-135.16	418.7	-220.7	679.2	656.3	22.93	29.617		
4,300.0	4,230.7	4,224.5	4,181.7	15.3	14.5	-135.24	422.4	-222.4	685.4	662.3	23.10	29.671		
4,370.0	4,298.6	4,301.3	4,257.7	15.6	14.8	-135.59	431.8	-226.7	702.1	678.5	23.56	29.795		
4,400.0	4,327.7	4,334.2	4,290.5	15.7	15.0	-135.78	435.2	-228.2	709.0	685.2	23.76	29.844		
4,465.0	4,390.8	4,405.8	4,361.7	16.0	15.3	-136.27	441.5	-231.1	723.4	699.2	24.17	29.927		
4,500.0	4,424.7	4,444.4	4,400.2	16.2	15.4	-136.58	444.3	-232.3	730.9	706.5	24.39	29.968		
4,537.3	4,460.9	4,485.5	4,441.2	16.4	15.6	-136.94	446.6	-233.4	738.6	714.0	24.61	30.018		
4,560.0	4,483.0	4,510.5	4,466.2	16.5	15.7	-137.23	447.8	-233.9	743.2	718.4	24.74	30.042		
4,600.0	4,521.9	4,554.8	4,510.4	16.6	15.8	-137.74	449.4	-234.7	750.7	725.7	24.96	30.071		
4,655.0	4,575.7	4,615.7	4,571.4	16.9	16.0	-138.44	450.6	-235.2	759.9	734.7	25.27	30.069		
4,700.0	4,619.8	4,663.6	4,619.2	17.1	16.0	-138.98	450.8	-235.3	766.6	741.1	25.48	30.087		
4,750.0	4,669.0	4,712.8	4,668.4	17.4	16.1	-139.50	450.8	-235.3	773.4	747.7	25.69	30.105		
4,800.0	4,718.4	4,762.1	4,717.8	17.6	16.1	-139.96	450.8	-235.3	779.6	753.7	25.92	30.081		
4,845.0	4,762.9	4,806.7	4,762.3	17.8	16.1	-140.33	450.8	-235.3	784.6	758.5	26.11	30.047		
4,900.0	4,817.5	4,861.2	4,816.9	18.0	16.1	-140.72	450.8	-235.3	790.0	763.6	26.35	29.977		
4,940.0	4,857.2	4,901.0	4,856.6	18.2	16.2	-140.97	450.8	-235.3	793.4	766.9	26.52	29.919		
5,000.0	4,916.9	4,960.7	4,916.3	18.4	16.2	-141.27	450.8	-235.3	797.8	771.0	26.77	29.802		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,035.0	4,951.8	4,995.6	4,951.2	18.6	16.2	-141.42	450.8	-235.3	799.9	773.0	26.91	29.730	
5,100.0	5,016.7	5,060.5	5,016.1	18.8	16.3	-141.63	450.8	-235.3	802.9	775.7	27.16	29.565	
5,130.0	5,046.7	5,090.5	5,046.1	18.9	16.3	-141.70	450.8	-235.3	803.9	776.6	27.26	29.492	
5,200.0	5,116.7	5,160.4	5,116.1	19.1	16.3	-141.79	450.8	-235.3	805.3	777.8	27.49	29.290	
5,225.0	5,141.7	5,185.4	5,141.1	19.2	16.3	-141.80	450.8	-235.3	805.5	777.9	27.54	29.249	
5,237.3	5,154.0	5,197.8	5,153.4	19.2	16.3	-91.01	450.8	-235.3	805.5	777.9	27.56	29.226	
5,300.0	5,216.7	5,260.4	5,216.1	19.2	16.4	-91.01	450.8	-235.3	805.5	777.8	27.63	29.151	
5,320.0	5,236.7	5,280.4	5,236.1	19.2	16.4	-91.01	450.8	-235.3	805.5	777.8	27.66	29.123	
5,400.0	5,316.7	5,360.4	5,316.1	19.3	16.4	-91.01	450.8	-235.3	805.5	777.7	27.76	29.011	
5,415.0	5,331.7	5,375.4	5,331.1	19.3	16.4	-91.01	450.8	-235.3	805.5	777.7	27.78	28.990	
5,500.0	5,416.7	5,460.4	5,416.1	19.3	16.5	-91.01	450.8	-235.3	805.5	777.6	27.90	28.872	
5,510.0	5,426.7	5,470.4	5,426.1	19.3	16.5	-91.01	450.8	-235.3	805.5	777.6	27.91	28.858	
5,600.0	5,516.7	5,560.4	5,516.1	19.3	16.5	-91.01	450.8	-235.3	805.5	777.4	28.03	28.734	
5,605.0	5,521.7	5,565.4	5,521.1	19.3	16.6	-91.01	450.8	-235.3	805.5	777.4	28.04	28.728	
5,700.0	5,616.7	5,660.4	5,616.1	19.4	16.6	-91.01	450.8	-235.3	805.5	777.3	28.17	28.598	
5,795.0	5,711.7	5,755.4	5,711.1	19.4	16.7	-91.01	450.8	-235.3	805.5	777.2	28.29	28.469	
5,800.0	5,716.7	5,760.4	5,716.1	19.4	16.7	-91.01	450.8	-235.3	805.5	777.2	28.30	28.462	
5,890.0	5,806.7	5,850.4	5,806.1	19.5	16.7	-91.01	450.8	-235.3	805.5	777.1	28.42	28.341	
5,900.0	5,816.7	5,860.4	5,816.1	19.5	16.7	-91.01	450.8	-235.3	805.5	777.0	28.43	28.327	
5,985.0	5,901.7	5,945.4	5,901.1	19.5	16.8	-91.01	450.8	-235.3	805.5	776.9	28.55	28.213	
6,000.0	5,916.7	5,960.4	5,916.1	19.5	16.8	-91.01	450.8	-235.3	805.5	776.9	28.57	28.193	
6,080.0	5,996.7	6,040.4	5,996.1	19.6	16.8	-91.01	450.8	-235.3	805.5	776.8	28.68	28.087	
6,100.0	6,016.7	6,060.4	6,016.1	19.6	16.8	-91.01	450.8	-235.3	805.5	776.8	28.70	28.061	
6,175.0	6,091.7	6,135.4	6,091.1	19.6	16.9	-91.01	450.8	-235.3	805.5	776.7	28.81	27.962	
6,200.0	6,116.7	6,160.4	6,116.1	19.6	16.9	-91.01	450.8	-235.3	805.5	776.6	28.84	27.929	
6,270.0	6,186.7	6,230.4	6,186.1	19.7	16.9	-91.01	450.8	-235.3	805.5	776.5	28.93	27.838	
6,300.0	6,216.7	6,260.4	6,216.1	19.7	17.0	-91.01	450.8	-235.3	805.5	776.5	28.98	27.799	
6,365.0	6,281.7	6,325.4	6,281.1	19.7	17.0	-91.01	450.8	-235.3	805.5	776.4	29.06	27.714	
6,400.0	6,316.7	6,360.4	6,316.1	19.7	17.0	-91.01	450.8	-235.3	805.5	776.4	29.11	27.669	
6,460.0	6,376.7	6,420.4	6,376.1	19.8	17.1	-91.01	450.8	-235.3	805.5	776.3	29.19	27.592	
6,500.0	6,416.7	6,460.4	6,416.1	19.8	17.1	-91.01	450.8	-235.3	805.5	776.2	29.25	27.541	
6,555.0	6,471.7	6,515.4	6,471.1	19.8	17.1	-91.01	450.8	-235.3	805.5	776.2	29.32	27.470	
6,600.0	6,516.7	6,560.4	6,516.1	19.8	17.1	-91.01	450.8	-235.3	805.5	776.1	29.38	27.413	
6,650.0	6,566.7	6,610.4	6,566.1	19.9	17.2	-91.01	450.8	-235.3	805.5	776.0	29.45	27.350	
6,700.0	6,616.7	6,660.4	6,616.1	19.9	17.2	-91.01	450.8	-235.3	805.5	776.0	29.52	27.286	
6,745.0	6,661.7	6,705.4	6,661.1	19.9	17.2	-91.01	450.8	-235.3	805.5	775.9	29.58	27.230	
6,800.0	6,716.7	6,760.4	6,716.1	19.9	17.3	-91.01	450.8	-235.3	805.5	775.8	29.66	27.161	
6,840.0	6,756.7	6,800.4	6,756.1	19.9	17.3	-91.01	450.8	-235.3	805.5	775.8	29.71	27.111	
6,900.0	6,816.7	6,860.4	6,816.1	20.0	17.3	-91.01	450.8	-235.3	805.5	775.7	29.79	27.036	
6,935.0	6,851.7	6,895.4	6,851.1	20.0	17.4	-91.01	450.8	-235.3	805.5	775.6	29.84	26.993	
7,000.0	6,916.7	6,960.4	6,916.1	20.0	17.4	-91.01	450.8	-235.3	805.5	775.5	29.93	26.912	
7,030.0	6,946.7	6,990.4	6,946.1	20.0	17.4	-91.01	450.8	-235.3	805.5	775.5	29.97	26.876	
7,100.0	7,016.7	7,060.4	7,016.1	20.1	17.5	-91.01	450.8	-235.3	805.5	775.4	30.07	26.790	
7,125.0	7,041.7	7,085.4	7,041.1	20.1	17.5	-91.01	450.8	-235.3	805.5	775.4	30.10	26.759	
7,200.0	7,116.7	7,160.4	7,116.1	20.1	17.5	-91.01	450.8	-235.3	805.5	775.3	30.20	26.668	
7,220.0	7,136.7	7,180.4	7,136.1	20.1	17.5	-91.01	450.8	-235.3	805.5	775.2	30.23	26.644	
7,300.0	7,216.7	7,260.4	7,216.1	20.2	17.6	-91.01	450.8	-235.3	805.5	775.1	30.34	26.547	
7,315.0	7,231.7	7,275.4	7,231.1	20.2	17.6	-91.01	450.8	-235.3	805.5	775.1	30.36	26.529	
7,400.0	7,316.7	7,360.4	7,316.1	20.2	17.6	-91.01	450.8	-235.3	805.5	775.0	30.48	26.427	
7,410.0	7,326.7	7,370.4	7,326.1	20.2	17.6	-91.01	450.8	-235.3	805.5	775.0	30.49	26.415	
7,500.0	7,416.7	7,460.4	7,416.1	20.3	17.7	-91.01	450.8	-235.3	805.5	774.9	30.62	26.308	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-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)		
7,505.0	7,421.7	7,465.4	7,421.1	20.3	17.7	-91.01	450.8	-235.3	805.5	774.9	30.62	26.302	
7,600.0	7,516.7	7,560.4	7,516.1	20.3	17.8	-91.01	450.8	-235.3	805.5	774.7	30.76	26.190	
7,695.0	7,611.7	7,655.4	7,611.1	20.4	17.8	-91.01	450.8	-235.3	805.5	774.6	30.89	26.078	
7,700.0	7,616.7	7,660.4	7,616.1	20.4	17.8	-91.01	450.8	-235.3	805.5	774.6	30.89	26.073	
7,790.0	7,706.7	7,750.4	7,706.1	20.4	17.9	-91.01	450.8	-235.3	805.5	774.5	31.02	25.968	
7,800.0	7,716.7	7,760.4	7,716.1	20.4	17.9	-91.01	450.8	-235.3	805.5	774.4	31.03	25.956	
7,885.0	7,801.7	7,845.4	7,801.1	20.5	17.9	-91.01	450.8	-235.3	805.5	774.3	31.15	25.858	
7,900.0	7,816.7	7,860.4	7,816.1	20.5	17.9	-91.01	450.8	-235.3	805.5	774.3	31.17	25.841	
7,980.0	7,896.7	7,940.4	7,896.1	20.5	18.0	-91.01	450.8	-235.3	805.5	774.2	31.28	25.749	
8,000.0	7,916.7	7,960.4	7,916.1	20.5	18.0	-91.01	450.8	-235.3	805.5	774.2	31.31	25.726	
8,075.0	7,991.7	8,035.4	7,991.1	20.6	18.1	-91.01	450.8	-235.3	805.5	774.1	31.41	25.641	
8,100.0	8,016.7	8,060.4	8,016.1	20.6	18.1	-91.01	450.8	-235.3	805.5	774.0	31.45	25.612	
8,170.0	8,086.7	8,130.4	8,086.1	20.6	18.1	-91.01	450.8	-235.3	805.5	773.9	31.55	25.533	
8,200.0	8,116.7	8,160.4	8,116.1	20.6	18.1	-91.01	450.8	-235.3	805.5	773.9	31.59	25.499	
8,265.0	8,181.7	8,225.4	8,181.1	20.7	18.2	-91.01	450.8	-235.3	805.5	773.8	31.68	25.426	
8,300.0	8,216.7	8,260.4	8,216.1	20.7	18.2	-91.01	450.8	-235.3	805.5	773.8	31.73	25.387	
8,360.0	8,276.7	8,320.4	8,276.1	20.7	18.2	-91.01	450.8	-235.3	805.5	773.7	31.81	25.321	
8,400.0	8,316.7	8,360.4	8,316.1	20.7	18.3	-91.01	450.8	-235.3	805.5	773.6	31.87	25.276	
8,455.0	8,371.7	8,415.4	8,371.1	20.8	18.3	-91.01	450.8	-235.3	805.5	773.5	31.94	25.215	
8,500.0	8,416.7	8,460.4	8,416.1	20.8	18.3	-91.01	450.8	-235.3	805.5	773.5	32.01	25.166	
8,550.0	8,466.7	8,510.4	8,466.1	20.8	18.4	-91.01	450.8	-235.3	805.5	773.4	32.08	25.111	
8,600.0	8,516.7	8,560.4	8,516.1	20.8	18.4	-91.01	450.8	-235.3	805.5	773.3	32.15	25.056	
8,645.0	8,561.7	8,605.4	8,561.1	20.9	18.4	-91.01	450.8	-235.3	805.5	773.3	32.21	25.007	
8,700.0	8,616.7	8,660.4	8,616.1	20.9	18.5	-91.01	450.8	-235.3	805.5	773.2	32.29	24.947	
8,740.0	8,656.7	8,700.4	8,656.1	20.9	18.5	-91.01	450.8	-235.3	805.5	773.1	32.34	24.904	
8,800.0	8,716.7	8,760.4	8,716.1	21.0	18.5	-91.01	450.8	-235.3	805.5	773.1	32.43	24.839	
8,835.0	8,751.7	8,795.4	8,751.1	21.0	18.5	-91.01	450.8	-235.3	805.5	773.0	32.48	24.802	
8,900.0	8,816.7	8,860.4	8,816.1	21.0	18.6	-91.01	450.8	-235.3	805.5	772.9	32.57	24.732	
8,930.0	8,846.7	8,890.4	8,846.1	21.0	18.6	-91.01	450.8	-235.3	805.5	772.9	32.61	24.700	
9,000.0	8,916.7	8,960.4	8,916.1	21.1	18.6	-91.01	450.8	-235.3	805.5	772.8	32.71	24.626	
9,025.0	8,941.7	8,985.4	8,941.1	21.1	18.7	-91.01	450.8	-235.3	805.5	772.7	32.74	24.599	
9,100.0	9,016.7	9,060.4	9,016.1	21.1	18.7	-91.01	450.8	-235.3	805.5	772.6	32.85	24.520	
9,120.0	9,036.7	9,080.4	9,036.1	21.1	18.7	-91.01	450.8	-235.3	805.5	772.6	32.88	24.499	
9,200.0	9,116.7	9,160.4	9,116.1	21.2	18.8	-91.01	450.8	-235.3	805.5	772.5	32.99	24.416	
9,215.0	9,131.7	9,175.4	9,131.1	21.2	18.8	-91.01	450.8	-235.3	805.5	772.5	33.01	24.400	
9,228.1	9,144.8	9,188.5	9,144.2	21.2	18.8	-91.01	450.8	-235.3	805.5	772.4	33.03	24.386	
9,300.0	9,216.7	9,260.4	9,216.0	21.2	18.8	-91.01	450.8	-235.3	805.5	772.4	33.11	24.324	
9,310.0	9,226.7	9,270.4	9,226.6	21.2	18.8	-91.02	450.7	-235.3	805.5	772.4	33.12	24.320	
9,316.4	9,233.0	9,276.1	9,231.7	21.2	18.9	-91.03	450.5	-235.3	805.5	772.4	33.12	24.318	
9,350.0	9,266.7	9,308.5	9,264.1	21.2	18.9	94.33	448.5	-235.3	806.6	772.5	33.14	24.313	
9,400.0	9,316.4	9,356.5	9,311.7	21.3	18.9	94.17	442.2	-235.4	806.2	773.0	33.14	24.325	
9,405.0	9,321.3	9,361.3	9,316.4	21.3	19.0	94.16	441.4	-235.4	806.3	773.1	33.14	24.327	
9,450.0	9,365.5	9,404.5	9,358.5	21.3	19.0	93.99	432.0	-235.5	807.2	774.1	33.14	24.356	
9,500.0	9,413.5	9,452.3	9,404.2	21.3	19.1	93.77	418.0	-235.6	808.6	775.5	33.13	24.406	
9,550.0	9,460.3	9,500.0	9,448.5	21.3	19.1	93.52	400.2	-235.7	810.5	777.4	33.12	24.472	
9,595.0	9,500.8	9,542.9	9,486.9	21.4	19.2	93.27	381.1	-235.9	812.5	779.4	33.10	24.545	
9,600.0	9,505.2	9,547.7	9,491.1	21.4	19.2	93.24	378.8	-235.9	812.8	779.7	33.10	24.554	
9,650.0	9,548.1	9,595.3	9,531.7	21.4	19.2	92.94	354.0	-236.1	815.5	782.4	33.08	24.648	
9,690.0	9,580.8	9,633.3	9,562.5	21.4	19.3	92.69	331.9	-236.3	817.9	784.8	33.07	24.732	
9,700.0	9,588.6	9,642.8	9,570.0	21.4	19.3	92.62	326.0	-236.3	818.5	785.4	33.06	24.754	
9,750.0	9,626.4	9,690.3	9,605.9	21.5	19.4	92.28	294.9	-236.6	821.9	788.8	33.05	24.868	

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance						Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,785.0	9,651.1	9,723.5	9,629.4	21.5	19.4	92.03	271.5	-236.8	824.4	791.4	33.04	24.951		
9,800.0	9,661.3	9,737.7	9,639.0	21.5	19.4	91.92	261.0	-236.9	825.6	792.5	33.04	24.988		
9,850.0	9,692.8	9,785.1	9,669.3	21.6	19.5	91.55	224.5	-237.2	829.6	796.5	33.04	25.110		
9,880.0	9,710.1	9,813.6	9,685.9	21.6	19.5	91.32	201.4	-237.4	832.1	799.0	33.04	25.184		
9,900.0	9,720.9	9,832.6	9,696.4	21.6	19.5	91.16	185.5	-237.5	833.8	800.8	33.04	25.233		
9,950.0	9,745.2	9,880.1	9,720.2	21.6	19.6	90.77	144.5	-237.8	838.3	805.2	33.06	25.353		
9,975.0	9,755.9	9,903.8	9,730.8	21.7	19.6	90.57	123.2	-238.0	840.6	807.5	33.08	25.411		
10,000.0	9,765.6	9,927.6	9,740.5	21.7	19.6	90.37	101.5	-238.2	843.0	809.9	33.10	25.468		
10,050.0	9,782.0	9,975.2	9,757.3	21.7	19.7	89.98	57.0	-238.6	847.8	814.6	33.15	25.575		
10,070.0	9,787.4	9,994.2	9,762.9	21.8	19.7	89.82	38.8	-238.7	849.8	816.6	33.17	25.615		
10,100.0	9,794.2	10,022.8	9,770.3	21.8	19.7	89.58	11.2	-238.9	852.8	819.5	33.22	25.673		
10,150.0	9,802.2	10,070.6	9,779.4	21.8	19.7	89.19	-35.7	-239.3	857.8	824.5	33.30	25.759		
10,165.0	9,803.7	10,085.0	9,781.4	21.9	19.7	89.07	-49.9	-239.4	859.3	826.0	33.33	25.782		
10,200.0	9,805.8	10,118.5	9,784.7	21.9	19.8	88.80	-83.3	-239.7	862.9	829.5	33.40	25.833		
10,216.1	9,806.0	10,134.0	9,785.5	21.9	19.8	88.68	-98.8	-239.8	864.6	831.1	33.44	25.855		
10,260.0	9,806.0	10,176.9	9,786.0	22.0	19.8	88.72	-141.6	-240.2	868.7	835.2	33.56	25.886		
10,300.0	9,806.0	10,216.8	9,786.0	22.0	19.8	88.72	-181.5	-240.5	872.0	838.3	33.68	25.887		
10,355.0	9,806.1	10,271.6	9,786.1	22.1	19.8	88.73	-236.4	-241.0	875.5	841.6	33.89	25.833		
10,400.0	9,806.1	10,316.6	9,786.1	22.2	19.8	88.73	-281.3	-241.4	877.6	843.6	34.07	25.761		
10,450.0	9,806.1	10,366.6	9,786.1	22.2	19.9	88.74	-331.3	-241.8	879.2	844.9	34.29	25.640		
10,500.0	9,806.1	10,416.6	9,786.1	22.3	19.9	88.74	-381.3	-242.2	879.8	845.3	34.52	25.491		
10,512.3	9,806.1	10,428.9	9,786.1	22.3	19.9	88.74	-393.6	-242.3	879.8	845.3	34.57	25.451		
10,545.0	9,806.1	10,461.6	9,786.2	22.4	19.9	88.74	-426.3	-242.6	879.8	845.1	34.73	25.337		
10,600.0	9,806.1	10,516.6	9,786.2	22.5	19.9	88.74	-481.3	-243.0	879.8	844.8	34.99	25.144		
10,640.0	9,806.2	10,556.6	9,786.2	22.6	20.0	88.74	-521.3	-243.3	879.8	844.6	35.21	24.991		
10,700.0	9,806.2	10,616.6	9,786.2	22.7	20.0	88.74	-581.3	-243.8	879.8	844.3	35.53	24.761		
10,735.0	9,806.2	10,651.6	9,786.3	22.7	20.0	88.74	-616.3	-244.1	879.8	844.1	35.74	24.616		
10,800.0	9,806.2	10,716.6	9,786.3	22.8	20.1	88.74	-681.3	-244.7	879.8	843.7	36.13	24.350		
10,830.0	9,806.2	10,746.6	9,786.3	22.9	20.1	88.74	-711.3	-244.9	879.8	843.5	36.33	24.220		
10,900.0	9,806.3	10,816.6	9,786.3	23.0	20.2	88.74	-781.3	-245.5	879.8	843.1	36.79	23.918		
10,925.0	9,806.3	10,841.6	9,786.4	23.1	20.2	88.74	-806.3	-245.7	879.8	842.9	36.96	23.805		
11,000.0	9,806.3	10,916.6	9,786.4	23.3	20.3	88.74	-881.3	-246.3	879.8	842.4	37.49	23.469		
11,020.0	9,806.3	10,936.6	9,786.4	23.3	20.3	88.74	-901.3	-246.5	879.8	842.2	37.64	23.375		
11,100.0	9,806.3	11,016.6	9,786.5	23.5	20.4	88.74	-981.3	-247.2	879.8	841.6	38.24	23.007		
11,115.0	9,806.4	11,031.6	9,786.5	23.6	20.4	88.74	-996.3	-247.3	879.8	841.5	38.36	22.936		
11,200.0	9,806.4	11,116.6	9,786.5	23.8	20.6	88.74	-1,081.3	-248.0	879.8	840.8	39.04	22.537		
11,210.0	9,806.4	11,126.6	9,786.5	23.8	20.6	88.74	-1,091.3	-248.1	879.8	840.7	39.12	22.489		
11,300.0	9,806.4	11,216.6	9,786.6	24.1	20.7	88.75	-1,181.3	-248.8	879.8	840.0	39.88	22.062		
11,305.0	9,806.4	11,221.6	9,786.6	24.1	20.7	88.75	-1,186.3	-248.9	879.8	839.9	39.92	22.038		
11,400.0	9,806.5	11,316.6	9,786.6	24.3	20.9	88.75	-1,281.3	-249.6	879.8	839.1	40.76	21.586		
11,495.0	9,806.5	11,411.6	9,786.7	24.7	21.1	88.75	-1,376.3	-250.4	879.8	838.2	41.63	21.134		
11,500.0	9,806.5	11,416.6	9,786.7	24.7	21.1	88.75	-1,381.3	-250.5	879.8	838.2	41.68	21.110		
11,590.0	9,806.5	11,506.6	9,786.7	25.0	21.4	88.75	-1,471.3	-251.2	879.8	837.3	42.53	20.686		
11,600.0	9,806.5	11,516.6	9,786.7	25.0	21.4	88.75	-1,481.3	-251.3	879.8	837.2	42.63	20.639		
11,685.0	9,806.6	11,601.6	9,786.8	25.3	21.7	88.75	-1,566.3	-252.0	879.8	836.4	43.47	20.242		
11,700.0	9,806.6	11,616.6	9,786.8	25.4	21.7	88.75	-1,581.3	-252.1	879.8	836.2	43.62	20.173		
11,780.0	9,806.6	11,696.6	9,786.8	25.7	22.0	88.75	-1,661.2	-252.8	879.8	835.4	44.43	19.805		
11,800.0	9,806.6	11,716.6	9,786.8	25.7	22.1	88.75	-1,681.2	-252.9	879.8	835.2	44.63	19.714		
11,875.0	9,806.6	11,791.6	9,786.9	26.0	22.3	88.75	-1,756.2	-253.6	879.8	834.4	45.41	19.375		
11,900.0	9,806.7	11,816.6	9,786.9	26.1	22.4	88.75	-1,781.2	-253.8	879.9	834.2	45.68	19.263		
11,970.0	9,806.7	11,886.6	9,786.9	26.4	22.7	88.75	-1,851.2	-254.4	879.9	833.4	46.42	18.953		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-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)		
12,000.0	9,806.7	11,916.6	9,786.9	26.5	22.9	88.75	-1,881.2	-254.6	879.9	833.1	46.75	18.822
12,065.0	9,806.7	11,981.6	9,787.0	26.8	23.1	88.75	-1,946.2	-255.1	879.9	832.4	47.46	18.540
12,100.0	9,806.7	12,016.6	9,787.0	27.0	23.3	88.75	-1,981.2	-255.4	879.9	832.0	47.84	18.391
12,160.0	9,806.8	12,076.6	9,787.0	27.2	23.6	88.75	-2,041.2	-255.9	879.9	831.3	48.51	18.137
12,200.0	9,806.8	12,116.6	9,787.0	27.4	23.8	88.75	-2,081.2	-256.3	879.9	830.9	48.96	17.971
12,255.0	9,806.8	12,171.6	9,787.1	27.7	24.1	88.75	-2,136.2	-256.7	879.9	830.3	49.58	17.745
12,300.0	9,806.8	12,216.6	9,787.1	27.9	24.3	88.75	-2,181.2	-257.1	879.9	829.8	50.10	17.563
12,350.0	9,806.8	12,266.6	9,787.1	28.1	24.6	88.75	-2,231.2	-257.5	879.9	829.2	50.68	17.362
12,400.0	9,806.9	12,316.6	9,787.1	28.3	24.8	88.75	-2,281.2	-257.9	879.9	828.6	51.26	17.165
12,445.0	9,806.9	12,361.6	9,787.2	28.6	25.1	88.75	-2,326.2	-258.3	879.9	828.1	51.79	16.990
12,500.0	9,806.9	12,416.6	9,787.2	28.8	25.4	88.76	-2,381.2	-258.7	879.9	827.4	52.44	16.780
12,540.0	9,806.9	12,456.6	9,787.2	29.0	25.6	88.76	-2,421.2	-259.1	879.9	826.9	52.91	16.628
12,600.0	9,806.9	12,516.6	9,787.2	29.3	26.0	88.76	-2,481.2	-259.6	879.9	826.2	53.63	16.405
12,635.0	9,806.9	12,551.6	9,787.3	29.5	26.2	88.76	-2,516.2	-259.9	879.9	825.8	54.06	16.277
12,700.0	9,807.0	12,616.6	9,787.3	29.9	26.5	88.76	-2,581.2	-260.4	879.9	825.0	54.84	16.043
12,730.0	9,807.0	12,646.6	9,787.3	30.0	26.7	88.76	-2,611.2	-260.6	879.9	824.6	55.21	15.936
12,800.0	9,807.0	12,716.6	9,787.3	30.4	27.1	88.76	-2,681.2	-261.2	879.9	823.8	56.07	15.692
12,825.0	9,807.0	12,741.6	9,787.4	30.5	27.3	88.76	-2,706.2	-261.4	879.9	823.5	56.38	15.605
12,900.0	9,807.1	12,816.6	9,787.4	30.9	27.8	88.76	-2,781.2	-262.1	879.9	822.5	57.31	15.352
12,920.0	9,807.1	12,836.6	9,787.4	31.0	27.9	88.76	-2,801.2	-262.2	879.9	822.3	57.56	15.285
13,000.0	9,807.1	12,916.6	9,787.4	31.5	28.4	88.76	-2,881.2	-262.9	879.9	821.3	58.57	15.023
13,015.0	9,807.1	12,931.6	9,787.5	31.6	28.5	88.76	-2,896.2	-263.0	879.9	821.1	58.76	14.974
13,100.0	9,807.1	13,016.6	9,787.5	32.0	29.0	88.76	-2,981.2	-263.7	879.9	820.0	59.84	14.704
13,110.0	9,807.1	13,026.6	9,787.5	32.1	29.1	88.76	-2,991.2	-263.8	879.9	819.9	59.97	14.673
13,200.0	9,807.2	13,116.6	9,787.6	32.6	29.7	88.76	-3,081.2	-264.5	879.9	818.7	61.12	14.396
13,205.0	9,807.2	13,121.6	9,787.6	32.6	29.7	88.76	-3,086.2	-264.6	879.9	818.7	61.18	14.381
13,300.0	9,807.2	13,216.6	9,787.6	33.2	30.3	88.76	-3,181.2	-265.4	879.9	817.5	62.41	14.099
13,395.0	9,807.2	13,311.6	9,787.7	33.8	30.9	88.76	-3,276.2	-266.2	879.9	816.2	63.64	13.825
13,400.0	9,807.2	13,316.6	9,787.7	33.8	31.0	88.76	-3,281.2	-266.2	879.9	816.2	63.71	13.811
13,490.0	9,807.3	13,406.6	9,787.7	34.3	31.5	88.76	-3,371.2	-266.9	879.9	815.0	64.89	13.560
13,500.0	9,807.3	13,416.6	9,787.7	34.4	31.6	88.76	-3,381.2	-267.0	879.9	814.8	65.02	13.532
13,585.0	9,807.3	13,501.6	9,787.8	34.9	32.2	88.76	-3,466.2	-267.7	879.9	813.7	66.14	13.303
13,600.0	9,807.3	13,516.6	9,787.8	35.0	32.3	88.76	-3,481.2	-267.8	879.9	813.5	66.34	13.263
13,680.0	9,807.4	13,596.6	9,787.8	35.5	32.8	88.77	-3,561.2	-268.5	879.9	812.5	67.40	13.054
13,700.0	9,807.4	13,616.6	9,787.8	35.6	33.0	88.77	-3,581.2	-268.7	879.9	812.2	67.67	13.002
13,775.0	9,807.4	13,691.6	9,787.9	36.1	33.5	88.77	-3,656.2	-269.3	879.9	811.2	68.67	12.813
13,800.0	9,807.4	13,716.6	9,787.9	36.2	33.6	88.77	-3,681.2	-269.5	879.9	810.9	69.01	12.751
13,870.0	9,807.4	13,786.6	9,787.9	36.7	34.1	88.77	-3,751.2	-270.1	879.9	809.9	69.95	12.579
13,900.0	9,807.4	13,816.6	9,787.9	36.9	34.3	88.77	-3,781.2	-270.3	879.9	809.5	70.35	12.507
13,965.0	9,807.5	13,881.6	9,788.0	37.3	34.8	88.77	-3,846.2	-270.9	879.9	808.6	71.23	12.353
14,000.0	9,807.5	13,916.6	9,788.0	37.5	35.0	88.77	-3,881.2	-271.2	879.9	808.2	71.70	12.271
14,060.0	9,807.5	13,976.6	9,788.0	37.9	35.4	88.77	-3,941.2	-271.7	879.9	807.4	72.52	12.133
14,100.0	9,807.5	14,016.6	9,788.0	38.1	35.7	88.77	-3,981.2	-272.0	879.9	806.8	73.06	12.043
14,155.0	9,807.5	14,071.6	9,788.1	38.5	36.1	88.77	-4,036.2	-272.4	879.9	806.1	73.81	11.920
14,200.0	9,807.6	14,116.6	9,788.1	38.8	36.4	88.77	-4,081.2	-272.8	879.9	805.4	74.43	11.822
14,250.0	9,807.6	14,166.6	9,788.1	39.1	36.7	88.77	-4,131.2	-273.2	879.9	804.8	75.11	11.714
14,300.0	9,807.6	14,216.6	9,788.1	39.4	37.1	88.77	-4,181.2	-273.6	879.9	804.1	75.80	11.608
14,345.0	9,807.6	14,261.6	9,788.2	39.7	37.4	88.77	-4,226.2	-274.0	879.9	803.5	76.42	11.514
14,400.0	9,807.6	14,316.6	9,788.2	40.1	37.8	88.77	-4,281.2	-274.5	879.9	802.7	77.18	11.401
14,440.0	9,807.7	14,356.6	9,788.2	40.3	38.0	88.77	-4,321.2	-274.8	879.9	802.1	77.73	11.320
14,500.0	9,807.7	14,416.6	9,788.2	40.7	38.5	88.77	-4,381.2	-275.3	879.9	801.3	78.56	11.200

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-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)		
14,535.0	9,807.7	14,451.6	9,788.3	41.0	38.7	88.77	-4,416.2	-275.6	879.9	800.8	79.05	11.131
14,600.0	9,807.7	14,516.6	9,788.3	41.4	39.2	88.77	-4,481.2	-276.1	879.9	799.9	79.95	11.005
14,630.0	9,807.7	14,546.6	9,788.3	41.6	39.4	88.77	-4,511.2	-276.4	879.9	799.5	80.37	10.948
14,700.0	9,807.8	14,616.6	9,788.3	42.0	39.9	88.77	-4,581.1	-277.0	879.9	798.5	81.34	10.817
14,725.0	9,807.8	14,641.6	9,788.4	42.2	40.1	88.77	-4,606.1	-277.2	879.9	798.2	81.69	10.771
14,800.0	9,807.8	14,716.6	9,788.4	42.7	40.6	88.78	-4,681.1	-277.8	879.9	797.1	82.74	10.634
14,820.0	9,807.8	14,736.6	9,788.4	42.8	40.7	88.78	-4,701.1	-277.9	879.9	796.9	83.02	10.598
14,900.0	9,807.8	14,816.6	9,788.4	43.4	41.3	88.78	-4,781.1	-278.6	879.9	795.7	84.14	10.457
14,915.0	9,807.8	14,831.6	9,788.5	43.5	41.4	88.78	-4,796.1	-278.7	879.9	795.5	84.35	10.431
15,000.0	9,807.9	14,916.6	9,788.5	44.1	42.0	88.78	-4,881.1	-279.4	879.9	794.3	85.55	10.285
15,010.0	9,807.9	14,926.6	9,788.5	44.1	42.1	88.78	-4,891.1	-279.5	879.9	794.2	85.69	10.268
15,100.0	9,807.9	15,016.6	9,788.5	44.7	42.7	88.78	-4,981.1	-280.3	879.9	792.9	86.96	10.118
15,105.0	9,807.9	15,021.6	9,788.6	44.8	42.8	88.78	-4,986.1	-280.3	879.9	792.9	87.03	10.110
15,200.0	9,808.0	15,116.6	9,788.6	45.4	43.4	88.78	-5,081.1	-281.1	879.9	791.5	88.38	9.956
15,295.0	9,808.0	15,211.6	9,788.7	46.1	44.1	88.78	-5,176.1	-281.9	879.9	790.2	89.72	9.807
15,300.0	9,808.0	15,216.6	9,788.7	46.1	44.2	88.78	-5,181.1	-281.9	879.9	790.1	89.79	9.799
15,390.0	9,808.0	15,306.6	9,788.7	46.7	44.8	88.78	-5,271.1	-282.7	879.9	788.8	91.07	9.661
15,400.0	9,808.0	15,316.6	9,788.7	46.8	44.9	88.78	-5,281.1	-282.7	879.9	788.7	91.22	9.646
15,485.0	9,808.1	15,401.6	9,788.8	47.4	45.5	88.78	-5,366.1	-283.4	879.9	787.5	92.43	9.520
15,500.0	9,808.1	15,416.6	9,788.8	47.5	45.6	88.78	-5,381.1	-283.6	879.9	787.2	92.64	9.498
15,580.0	9,808.1	15,496.6	9,788.8	48.0	46.2	88.78	-5,461.1	-284.2	879.9	786.1	93.78	9.382
15,600.0	9,808.1	15,516.6	9,788.8	48.2	46.3	88.78	-5,481.1	-284.4	879.9	785.8	94.07	9.354
15,675.0	9,808.1	15,591.6	9,788.8	48.7	46.9	88.78	-5,556.1	-285.0	879.9	784.7	95.14	9.248
15,700.0	9,808.1	15,616.6	9,788.9	48.9	47.0	88.78	-5,581.1	-285.2	879.9	784.4	95.50	9.213
15,770.0	9,808.2	15,686.6	9,788.9	49.4	47.6	88.78	-5,651.1	-285.8	879.9	783.4	96.51	9.117
15,800.0	9,808.2	15,716.6	9,788.9	49.6	47.8	88.78	-5,681.1	-286.1	879.9	783.0	96.94	9.077
15,865.0	9,808.2	15,781.6	9,788.9	50.0	48.2	88.78	-5,746.1	-286.6	879.9	782.0	97.87	8.990
15,900.0	9,808.2	15,816.6	9,789.0	50.3	48.5	88.78	-5,781.1	-286.9	879.9	781.5	98.37	8.944
15,960.0	9,808.3	15,876.6	9,789.0	50.7	48.9	88.79	-5,841.1	-287.4	879.9	780.7	99.24	8.866
16,000.0	9,808.3	15,916.6	9,789.0	51.0	49.2	88.79	-5,881.1	-287.7	879.9	780.1	99.81	8.815
16,055.0	9,808.3	15,971.6	9,789.0	51.4	49.6	88.79	-5,936.1	-288.2	879.9	779.3	100.61	8.746
16,100.0	9,808.3	16,016.6	9,789.1	51.7	50.0	88.79	-5,981.1	-288.5	879.9	778.6	101.26	8.690
16,150.0	9,808.3	16,066.6	9,789.1	52.0	50.3	88.79	-6,031.1	-289.0	879.9	777.9	101.98	8.628
16,200.0	9,808.3	16,116.6	9,789.1	52.4	50.7	88.79	-6,081.1	-289.4	879.9	777.2	102.70	8.567
16,245.0	9,808.4	16,161.6	9,789.1	52.7	51.0	88.79	-6,126.1	-289.7	879.9	776.5	103.35	8.513
16,300.0	9,808.4	16,216.6	9,789.2	53.1	51.4	88.79	-6,181.1	-290.2	879.9	775.7	104.15	8.448
16,340.0	9,808.4	16,256.6	9,789.2	53.4	51.7	88.79	-6,221.1	-290.5	879.9	775.2	104.73	8.402
16,400.0	9,808.4	16,316.6	9,789.2	53.8	52.1	88.79	-6,281.1	-291.0	879.9	774.3	105.60	8.332
16,435.0	9,808.4	16,351.6	9,789.2	54.0	52.4	88.79	-6,316.1	-291.3	879.9	773.8	106.11	8.293
16,500.0	9,808.5	16,416.6	9,789.3	54.5	52.9	88.79	-6,381.1	-291.9	879.9	772.8	107.05	8.219
16,530.0	9,808.5	16,446.6	9,789.3	54.7	53.1	88.79	-6,411.1	-292.1	879.9	772.4	107.49	8.186
16,600.0	9,808.5	16,516.6	9,789.3	55.2	53.6	88.79	-6,481.1	-292.7	879.9	771.4	108.51	8.109
16,625.0	9,808.5	16,541.6	9,789.3	55.4	53.8	88.79	-6,506.1	-292.9	879.9	771.0	108.87	8.082
16,700.0	9,808.5	16,616.6	9,789.4	55.9	54.3	88.79	-6,581.1	-293.5	879.9	769.9	109.96	8.002
16,720.0	9,808.5	16,636.6	9,789.4	56.1	54.5	88.79	-6,601.1	-293.7	879.9	769.6	110.25	7.981
16,800.0	9,808.6	16,716.6	9,789.4	56.6	55.1	88.79	-6,681.1	-294.3	879.9	768.5	111.42	7.897
16,815.0	9,808.6	16,731.6	9,789.4	56.7	55.2	88.79	-6,696.1	-294.5	879.9	768.3	111.64	7.882
16,900.0	9,808.6	16,816.6	9,789.5	57.4	55.8	88.79	-6,781.1	-295.2	879.9	767.0	112.88	7.795
16,910.0	9,808.6	16,826.6	9,789.5	57.4	55.9	88.79	-6,791.1	-295.2	879.9	766.9	113.03	7.785
17,000.0	9,808.7	16,916.6	9,789.5	58.1	56.6	88.79	-6,881.1	-296.0	879.9	765.6	114.34	7.695
17,005.0	9,808.7	16,921.6	9,789.5	58.1	56.6	88.79	-6,886.1	-296.0	879.9	765.5	114.41	7.691

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
17,100.0	9,808.7	17,016.6	9,789.6	58.8	57.3	88.80	-6,981.1	-296.8	879.9	764.1	115.80	7.598
17,195.0	9,808.7	17,111.6	9,789.6	59.5	58.0	88.80	-7,076.1	-297.6	879.9	762.7	117.20	7.508
17,200.0	9,808.7	17,116.6	9,789.6	59.5	58.0	88.80	-7,081.1	-297.6	879.9	762.6	117.27	7.503
17,290.0	9,808.8	17,206.6	9,789.7	60.2	58.7	88.80	-7,171.1	-298.4	879.9	761.3	118.59	7.420
17,300.0	9,808.8	17,216.6	9,789.7	60.2	58.8	88.80	-7,181.1	-298.5	879.9	761.2	118.74	7.411
17,385.0	9,808.8	17,301.6	9,789.7	60.8	59.4	88.80	-7,266.1	-299.2	879.9	759.9	119.98	7.334
17,400.0	9,808.8	17,316.6	9,789.8	61.0	59.5	88.80	-7,281.1	-299.3	879.9	759.7	120.20	7.320
17,480.0	9,808.8	17,396.6	9,789.8	61.5	60.1	88.80	-7,361.1	-300.0	879.9	758.5	121.38	7.249
17,500.0	9,808.9	17,416.6	9,789.8	61.7	60.3	88.80	-7,381.1	-300.1	879.9	758.2	121.67	7.232
17,575.0	9,808.9	17,491.6	9,789.8	62.2	60.8	88.80	-7,456.1	-300.7	879.9	757.1	122.78	7.167
17,600.0	9,808.9	17,516.6	9,789.9	62.4	61.0	88.80	-7,481.0	-301.0	879.9	756.8	123.14	7.145
17,670.0	9,808.9	17,586.6	9,789.9	62.9	61.5	88.80	-7,551.0	-301.5	879.9	755.7	124.17	7.086
17,700.0	9,808.9	17,616.6	9,789.9	63.1	61.7	88.80	-7,581.0	-301.8	879.9	755.3	124.62	7.061
17,765.0	9,809.0	17,681.6	9,789.9	63.6	62.2	88.80	-7,646.0	-302.3	879.9	754.3	125.57	7.007
17,800.0	9,809.0	17,716.6	9,790.0	63.9	62.5	88.80	-7,681.0	-302.6	879.9	753.8	126.09	6.978
17,860.0	9,809.0	17,776.6	9,790.0	64.3	62.9	88.80	-7,741.0	-303.1	879.9	752.9	126.98	6.930
17,900.0	9,809.0	17,816.6	9,790.0	64.6	63.2	88.80	-7,781.0	-303.4	879.9	752.4	127.57	6.898
17,955.0	9,809.0	17,871.6	9,790.0	65.0	63.6	88.80	-7,836.0	-303.9	879.9	751.5	128.38	6.854
18,000.0	9,809.1	17,916.6	9,790.1	65.3	64.0	88.80	-7,881.0	-304.3	879.9	750.9	129.04	6.819
18,050.0	9,809.1	17,966.6	9,790.1	65.7	64.3	88.80	-7,931.0	-304.7	879.9	750.1	129.78	6.780
18,100.0	9,809.1	18,016.6	9,790.1	66.0	64.7	88.80	-7,981.0	-305.1	879.9	749.4	130.52	6.742
18,145.0	9,809.1	18,061.6	9,790.1	66.4	65.0	88.80	-8,026.0	-305.5	879.9	748.7	131.18	6.708
18,200.0	9,809.1	18,116.6	9,790.2	66.8	65.5	88.80	-8,081.0	-305.9	879.9	747.9	132.00	6.666
18,240.0	9,809.1	18,156.6	9,790.2	67.1	65.8	88.80	-8,121.0	-306.3	879.9	747.3	132.59	6.636
18,300.0	9,809.2	18,216.6	9,790.2	67.5	66.2	88.81	-8,181.0	-306.7	879.9	746.4	133.48	6.592
18,335.0	9,809.2	18,251.6	9,790.2	67.8	66.5	88.81	-8,216.0	-307.0	879.9	745.9	134.00	6.567
18,400.0	9,809.2	18,316.6	9,790.3	68.2	66.9	88.81	-8,281.0	-307.6	879.9	745.0	134.96	6.520
18,430.0	9,809.2	18,346.6	9,790.3	68.4	67.2	88.81	-8,311.0	-307.8	879.9	744.5	135.40	6.499
18,500.0	9,809.2	18,416.6	9,790.3	69.0	67.7	88.81	-8,381.0	-308.4	879.9	743.5	136.44	6.449
18,525.0	9,809.3	18,441.6	9,790.3	69.1	67.9	88.81	-8,406.0	-308.6	879.9	743.1	136.81	6.432
18,600.0	9,809.3	18,516.6	9,790.4	69.7	68.4	88.81	-8,481.0	-309.2	879.9	742.0	137.92	6.380
18,620.0	9,809.3	18,536.6	9,790.4	69.8	68.6	88.81	-8,501.0	-309.4	879.9	741.7	138.22	6.366
18,700.0	9,809.3	18,616.6	9,790.4	70.4	69.2	88.81	-8,581.0	-310.1	879.9	740.5	139.41	6.312
18,715.0	9,809.3	18,631.6	9,790.4	70.5	69.3	88.81	-8,596.0	-310.2	879.9	740.3	139.63	6.302
18,800.0	9,809.4	18,716.6	9,790.5	71.2	69.9	88.81	-8,681.0	-310.9	879.9	739.0	140.89	6.245
18,810.0	9,809.4	18,726.6	9,790.5	71.2	70.0	88.81	-8,691.0	-311.0	879.9	738.9	141.04	6.239
18,900.0	9,809.4	18,816.6	9,790.5	71.9	70.7	88.81	-8,781.0	-311.7	879.9	737.6	142.38	6.180
18,905.0	9,809.4	18,821.6	9,790.5	71.9	70.7	88.81	-8,786.0	-311.8	879.9	737.5	142.45	6.177
19,000.0	9,809.4	18,916.6	9,790.6	72.6	71.4	88.81	-8,881.0	-312.5	879.9	736.1	143.86	6.116
19,095.0	9,809.5	19,011.6	9,790.6	73.3	72.1	88.81	-8,976.0	-313.3	879.9	734.7	145.28	6.057
19,100.0	9,809.5	19,016.6	9,790.6	73.4	72.2	88.81	-8,981.0	-313.4	879.9	734.6	145.35	6.054
19,190.0	9,809.5	19,106.6	9,790.7	74.0	72.8	88.81	-9,071.0	-314.1	879.9	733.2	146.69	5.999
19,200.0	9,809.5	19,116.6	9,790.7	74.1	72.9	88.81	-9,081.0	-314.2	879.9	733.1	146.84	5.993
19,285.0	9,809.6	19,201.6	9,790.7	74.7	73.6	88.81	-9,166.0	-314.9	879.9	731.8	148.10	5.941
19,300.0	9,809.6	19,216.6	9,790.8	74.8	73.7	88.81	-9,181.0	-315.0	879.9	731.6	148.33	5.932
19,380.0	9,809.6	19,296.6	9,790.8	75.4	74.3	88.81	-9,261.0	-315.7	879.9	730.4	149.52	5.885
19,400.0	9,809.6	19,316.6	9,790.8	75.6	74.4	88.81	-9,281.0	-315.9	879.9	730.1	149.82	5.873
19,475.0	9,809.6	19,391.6	9,790.8	76.1	75.0	88.82	-9,356.0	-316.5	879.9	729.0	150.94	5.830
19,500.0	9,809.6	19,416.6	9,790.9	76.3	75.2	88.82	-9,381.0	-316.7	879.9	728.6	151.31	5.816
19,570.0	9,809.7	19,486.6	9,790.9	76.8	75.7	88.82	-9,451.0	-317.3	879.9	727.6	152.35	5.776
19,600.0	9,809.7	19,516.6	9,790.9	77.1	75.9	88.82	-9,481.0	-317.5	879.9	727.1	152.80	5.759

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-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)		
19,665.0	9,809.7	19,581.6	9,790.9	77.5	76.4	88.82	-9,546.0	-318.0	879.9	726.2	153.77	5.722
19,700.0	9,809.7	19,616.6	9,791.0	77.8	76.7	88.82	-9,581.0	-318.3	879.9	725.6	154.29	5.703
19,760.0	9,809.7	19,676.6	9,791.0	78.2	77.1	88.82	-9,641.0	-318.8	879.9	724.7	155.19	5.670
19,800.0	9,809.8	19,716.6	9,791.0	78.5	77.4	88.82	-9,681.0	-319.2	879.9	724.2	155.78	5.648
19,855.0	9,809.8	19,771.6	9,791.0	78.9	77.8	88.82	-9,736.0	-319.6	879.9	723.3	156.61	5.619
19,900.0	9,809.8	19,816.6	9,791.1	79.3	78.2	88.82	-9,781.0	-320.0	879.9	722.7	157.28	5.595
19,950.0	9,809.8	19,866.6	9,791.1	79.6	78.5	88.82	-9,831.0	-320.4	879.9	721.9	158.02	5.568
20,000.0	9,809.8	19,916.6	9,791.1	80.0	78.9	88.82	-9,881.0	-320.8	879.9	721.2	158.77	5.542
20,045.0	9,809.9	19,961.6	9,791.1	80.4	79.3	88.82	-9,926.0	-321.2	879.9	720.5	159.44	5.519
20,100.0	9,809.9	20,016.6	9,791.2	80.8	79.7	88.82	-9,981.0	-321.6	879.9	719.7	160.27	5.490
20,140.0	9,809.9	20,056.6	9,791.2	81.1	80.0	88.82	-10,021.0	-322.0	879.9	719.1	160.86	5.470
20,200.0	9,809.9	20,116.6	9,791.2	81.5	80.4	88.82	-10,081.0	-322.5	879.9	718.2	161.76	5.440
20,235.0	9,809.9	20,151.6	9,791.2	81.8	80.7	88.82	-10,116.0	-322.8	879.9	717.7	162.28	5.422
20,300.0	9,810.0	20,216.6	9,791.3	82.2	81.2	88.82	-10,181.0	-323.3	879.9	716.7	163.26	5.390
20,330.0	9,810.0	20,246.6	9,791.3	82.5	81.4	88.82	-10,211.0	-323.6	879.9	716.2	163.71	5.375
20,400.0	9,810.0	20,316.6	9,791.3	83.0	81.9	88.82	-10,281.0	-324.1	879.9	715.2	164.75	5.341
20,425.0	9,810.0	20,341.6	9,791.3	83.2	82.1	88.82	-10,306.0	-324.3	879.9	714.8	165.13	5.329
20,500.0	9,810.0	20,416.6	9,791.4	83.7	82.7	88.82	-10,380.9	-325.0	879.9	713.7	166.25	5.293
20,520.0	9,810.0	20,436.6	9,791.4	83.9	82.8	88.82	-10,400.9	-325.1	879.9	713.4	166.55	5.283
20,600.0	9,810.1	20,516.6	9,791.4	84.5	83.4	88.83	-10,480.9	-325.8	879.9	712.2	167.75	5.246
20,615.0	9,810.1	20,531.6	9,791.4	84.6	83.5	88.83	-10,495.9	-325.9	879.9	712.0	167.97	5.239
20,700.0	9,810.1	20,616.6	9,791.5	85.2	84.2	88.83	-10,580.9	-326.6	879.9	710.7	169.25	5.199
20,710.0	9,810.1	20,626.6	9,791.5	85.3	84.3	88.83	-10,590.9	-326.7	879.9	710.6	169.40	5.195
20,800.0	9,810.2	20,716.6	9,791.5	86.0	84.9	88.83	-10,680.9	-327.4	879.9	709.2	170.75	5.154
20,805.0	9,810.2	20,721.6	9,791.5	86.0	85.0	88.83	-10,685.9	-327.5	879.9	709.1	170.82	5.151
20,900.0	9,810.2	20,816.6	9,791.6	86.7	85.7	88.83	-10,780.9	-328.3	879.9	707.7	172.24	5.109
20,995.0	9,810.2	20,911.6	9,791.6	87.4	86.4	88.83	-10,875.9	-329.1	879.9	706.3	173.67	5.067
21,000.0	9,810.2	20,916.6	9,791.6	87.4	86.4	88.83	-10,880.9	-329.1	879.9	706.2	173.74	5.065
21,090.0	9,810.3	21,006.6	9,791.7	88.1	87.1	88.83	-10,970.9	-329.8	880.0	704.9	175.09	5.026
21,100.0	9,810.3	21,016.6	9,791.7	88.2	87.2	88.83	-10,980.9	-329.9	880.0	704.7	175.24	5.021
21,185.0	9,810.3	21,101.6	9,791.7	88.8	87.8	88.83	-11,065.9	-330.6	880.0	703.4	176.52	4.985
21,200.0	9,810.3	21,116.6	9,791.7	88.9	87.9	88.83	-11,080.9	-330.8	880.0	703.2	176.75	4.979
21,280.0	9,810.3	21,196.6	9,791.8	89.5	88.5	88.83	-11,160.9	-331.4	880.0	702.0	177.95	4.945
21,300.0	9,810.3	21,216.6	9,791.8	89.7	88.7	88.83	-11,180.9	-331.6	880.0	701.7	178.25	4.937
21,375.0	9,810.4	21,291.6	9,791.8	90.2	89.3	88.83	-11,255.9	-332.2	880.0	700.6	179.37	4.906
21,400.0	9,810.4	21,316.6	9,791.9	90.4	89.5	88.83	-11,280.9	-332.4	880.0	700.2	179.75	4.895
21,470.0	9,810.4	21,386.6	9,791.9	91.0	90.0	88.83	-11,350.9	-333.0	880.0	699.2	180.80	4.867
21,500.0	9,810.4	21,416.6	9,791.9	91.2	90.2	88.83	-11,380.9	-333.2	880.0	698.7	181.25	4.855
21,565.0	9,810.5	21,481.6	9,791.9	91.7	90.7	88.83	-11,445.9	-333.8	880.0	697.7	182.23	4.829
21,600.0	9,810.5	21,516.6	9,792.0	91.9	91.0	88.83	-11,480.9	-334.1	880.0	697.2	182.75	4.815
21,660.0	9,810.5	21,576.6	9,792.0	92.4	91.4	88.83	-11,540.9	-334.6	880.0	696.3	183.65	4.791
21,700.0	9,810.5	21,616.6	9,792.0	92.7	91.7	88.83	-11,580.9	-334.9	880.0	695.7	184.26	4.776
21,755.0	9,810.5	21,671.6	9,792.0	93.1	92.1	88.84	-11,635.9	-335.3	880.0	694.9	185.08	4.754
21,800.0	9,810.5	21,716.6	9,792.1	93.4	92.5	88.84	-11,680.9	-335.7	880.0	694.2	185.76	4.737
21,850.0	9,810.6	21,766.6	9,792.1	93.8	92.8	88.84	-11,730.9	-336.1	880.0	693.4	186.51	4.718
21,900.0	9,810.6	21,816.6	9,792.1	94.2	93.2	88.84	-11,780.9	-336.5	880.0	692.7	187.26	4.699
21,945.0	9,810.6	21,861.6	9,792.1	94.5	93.6	88.84	-11,825.9	-336.9	880.0	692.0	187.94	4.682
22,000.0	9,810.6	21,916.6	9,792.2	94.9	94.0	88.84	-11,880.9	-337.4	880.0	691.2	188.77	4.662
22,040.0	9,810.6	21,956.6	9,792.2	95.2	94.3	88.84	-11,920.9	-337.7	880.0	690.6	189.37	4.647
22,100.0	9,810.7	22,016.6	9,792.2	95.7	94.7	88.84	-11,980.9	-338.2	880.0	689.7	190.27	4.625
22,135.0	9,810.7	22,051.6	9,792.2	95.9	95.0	88.84	-12,015.9	-338.5	880.0	689.2	190.80	4.612

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS								Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
22,200.0	9,810.7	22,116.6	9,792.3	96.4	95.5	88.84	-12,080.9	-339.0	880.0	688.2	191.78	4.588			
22,230.0	9,810.7	22,146.6	9,792.3	96.6	95.7	88.84	-12,110.9	-339.3	880.0	687.7	192.23	4.578			
22,300.0	9,810.7	22,216.6	9,792.3	97.2	96.2	88.84	-12,180.9	-339.9	880.0	686.7	193.28	4.553			
22,325.0	9,810.7	22,241.6	9,792.3	97.3	96.4	88.84	-12,205.9	-340.1	880.0	686.3	193.66	4.544			
22,400.0	9,810.8	22,316.6	9,792.4	97.9	97.0	88.84	-12,280.9	-340.7	880.0	685.2	194.79	4.518			
22,420.0	9,810.8	22,336.6	9,792.4	98.1	97.1	88.84	-12,300.9	-340.9	880.0	684.9	195.09	4.511			
22,500.0	9,810.8	22,416.6	9,792.4	98.7	97.8	88.84	-12,380.9	-341.5	880.0	683.7	196.29	4.483			
22,515.0	9,810.8	22,431.6	9,792.4	98.8	97.9	88.84	-12,395.9	-341.6	880.0	683.4	196.52	4.478			
22,600.0	9,810.9	22,516.6	9,792.5	99.4	98.5	88.84	-12,480.9	-342.3	880.0	682.2	197.80	4.449			
22,610.0	9,810.9	22,526.6	9,792.5	99.5	98.6	88.84	-12,490.9	-342.4	880.0	682.0	197.95	4.445			
22,700.0	9,810.9	22,616.6	9,792.5	100.2	99.3	88.84	-12,580.9	-343.2	880.0	680.7	199.31	4.415			
22,705.0	9,810.9	22,621.6	9,792.5	100.2	99.3	88.84	-12,585.9	-343.2	880.0	680.6	199.38	4.413			
22,800.0	9,810.9	22,716.6	9,792.6	100.9	100.0	88.84	-12,680.9	-344.0	880.0	679.2	200.81	4.382			
22,895.0	9,811.0	22,811.6	9,792.6	101.6	100.7	88.85	-12,775.9	-344.8	880.0	677.7	202.25	4.351			
22,900.0	9,811.0	22,816.6	9,792.6	101.7	100.8	88.85	-12,780.9	-344.8	880.0	677.7	202.32	4.349			
22,990.0	9,811.0	22,906.6	9,792.7	102.3	101.5	88.85	-12,870.9	-345.6	880.0	676.3	203.68	4.320			
23,000.0	9,811.0	22,916.6	9,792.7	102.4	101.5	88.85	-12,880.9	-345.7	880.0	676.1	203.83	4.317			
23,085.0	9,811.0	23,001.6	9,792.7	103.0	102.2	88.85	-12,965.9	-346.4	880.0	674.9	205.11	4.290			
23,100.0	9,811.1	23,016.6	9,792.7	103.2	102.3	88.85	-12,980.9	-346.5	880.0	674.6	205.34	4.286			
23,180.0	9,811.1	23,096.6	9,792.8	103.8	102.9	88.85	-13,060.9	-347.1	880.0	673.4	206.54	4.260			
23,200.0	9,811.1	23,116.6	9,792.8	103.9	103.0	88.85	-13,080.9	-347.3	880.0	673.1	206.84	4.254			
23,275.0	9,811.1	23,191.6	9,792.8	104.5	103.6	88.85	-13,155.9	-347.9	880.0	672.0	207.98	4.231			
23,300.0	9,811.1	23,216.6	9,792.8	104.7	103.8	88.85	-13,180.9	-348.1	880.0	671.6	208.35	4.223			
23,370.0	9,811.2	23,286.6	9,792.9	105.2	104.3	88.85	-13,250.9	-348.7	880.0	670.6	209.41	4.202			
23,400.0	9,811.2	23,316.6	9,792.9	105.4	104.6	88.85	-13,280.8	-349.0	880.0	670.1	209.86	4.193			
23,465.0	9,811.2	23,381.6	9,792.9	105.9	105.1	88.85	-13,345.8	-349.5	880.0	669.1	210.84	4.174			
23,500.0	9,811.2	23,416.6	9,793.0	106.2	105.3	88.85	-13,380.8	-349.8	880.0	668.6	211.37	4.163			
23,560.0	9,811.2	23,476.6	9,793.0	106.6	105.8	88.85	-13,440.8	-350.3	880.0	667.7	212.28	4.145			
23,600.0	9,811.2	23,516.6	9,793.0	106.9	106.1	88.85	-13,480.8	-350.6	880.0	667.1	212.88	4.134			
23,655.0	9,811.3	23,571.6	9,793.0	107.3	106.5	88.85	-13,535.8	-351.1	880.0	666.3	213.71	4.118			
23,700.0	9,811.3	23,616.6	9,793.1	107.7	106.8	88.85	-13,580.8	-351.4	880.0	665.6	214.39	4.105			
23,750.0	9,811.3	23,666.6	9,793.1	108.0	107.2	88.85	-13,630.8	-351.9	880.0	664.8	215.14	4.090			
23,800.0	9,811.3	23,716.6	9,793.1	108.4	107.6	88.85	-13,680.8	-352.3	880.0	664.1	215.90	4.076			
23,845.0	9,811.3	23,761.6	9,793.1	108.8	107.9	88.85	-13,725.8	-352.6	880.0	663.4	216.58	4.063			
23,900.0	9,811.4	23,816.6	9,793.2	109.2	108.3	88.85	-13,780.8	-353.1	880.0	662.6	217.41	4.048			
23,940.0	9,811.4	23,856.6	9,793.2	109.5	108.6	88.85	-13,820.8	-353.4	880.0	662.0	218.01	4.036			
24,000.0	9,811.4	23,916.6	9,793.2	109.9	109.1	88.85	-13,880.8	-353.9	880.0	661.1	218.92	4.020			
24,035.0	9,811.4	23,951.6	9,793.2	110.2	109.4	88.85	-13,915.8	-354.2	880.0	660.5	219.45	4.010			
24,100.0	9,811.4	24,016.6	9,793.3	110.7	109.9	88.86	-13,980.8	-354.8	880.0	659.6	220.43	3.992			
24,130.0	9,811.5	24,046.6	9,793.3	110.9	110.1	88.86	-14,010.8	-355.0	880.0	659.1	220.88	3.984			
24,200.0	9,811.5	24,116.6	9,793.3	111.4	110.6	88.86	-14,080.8	-355.6	880.0	658.0	221.94	3.965			
24,225.0	9,811.5	24,141.6	9,793.3	111.6	110.8	88.86	-14,105.8	-355.8	880.0	657.7	222.32	3.958			
24,300.0	9,811.5	24,216.6	9,793.4	112.2	111.4	88.86	-14,180.8	-356.4	880.0	656.5	223.45	3.938			
24,320.0	9,811.5	24,236.6	9,793.4	112.3	111.5	88.86	-14,200.8	-356.6	880.0	656.2	223.76	3.933			
24,400.0	9,811.6	24,316.6	9,793.4	112.9	112.1	88.86	-14,280.8	-357.2	880.0	655.0	224.96	3.912			
24,415.0	9,811.6	24,331.6	9,793.4	113.0	112.2	88.86	-14,295.8	-357.4	880.0	654.8	225.19	3.908			
24,500.0	9,811.6	24,416.6	9,793.5	113.7	112.9	88.86	-14,380.8	-358.1	880.0	653.5	226.48	3.886			
24,510.0	9,811.6	24,426.6	9,793.5	113.8	113.0	88.86	-14,390.8	-358.2	880.0	653.4	226.63	3.883			
24,600.0	9,811.6	24,516.6	9,793.5	114.4	113.6	88.86	-14,480.8	-358.9	880.0	652.0	227.99	3.860			
24,605.0	9,811.6	24,521.6	9,793.5	114.5	113.7	88.86	-14,485.8	-358.9	880.0	651.9	228.06	3.859			
24,700.0	9,811.7	24,616.6	9,793.6	115.2	114.4	88.86	-14,580.8	-359.7	880.0	650.5	229.50	3.834			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Factor		
24,795.0	9,811.7	24,711.6	9,793.6	115.9	115.1	88.86	-14,675.8	-360.5	880.0	649.1	230.94	3.811		
24,800.0	9,811.7	24,716.6	9,793.6	115.9	115.2	88.86	-14,680.8	-360.6	880.0	649.0	231.01	3.809		
24,890.0	9,811.8	24,806.6	9,793.7	116.6	115.8	88.86	-14,770.8	-361.3	880.0	647.6	232.37	3.787		
24,900.0	9,811.8	24,816.6	9,793.7	116.7	115.9	88.86	-14,780.8	-361.4	880.0	647.5	232.52	3.785		
24,985.0	9,811.8	24,901.6	9,793.7	117.3	116.6	88.86	-14,865.8	-362.1	880.0	646.2	233.81	3.764		
25,000.0	9,811.8	24,916.6	9,793.7	117.5	116.7	88.86	-14,880.8	-362.2	880.0	646.0	234.04	3.760		
25,080.0	9,811.8	24,996.6	9,793.8	118.1	117.3	88.86	-14,960.8	-362.9	880.0	644.7	235.25	3.741		
25,100.0	9,811.8	25,016.6	9,793.8	118.2	117.4	88.86	-14,980.8	-363.0	880.0	644.4	235.55	3.736		
25,175.0	9,811.9	25,091.6	9,793.8	118.8	118.0	88.86	-15,055.8	-363.7	880.0	643.3	236.68	3.718		
25,200.0	9,811.9	25,116.6	9,793.8	119.0	118.2	88.87	-15,080.8	-363.9	880.0	642.9	237.06	3.712		
25,270.0	9,811.9	25,186.6	9,793.9	119.5	118.7	88.87	-15,150.8	-364.4	880.0	641.9	238.12	3.696		
25,300.0	9,811.9	25,216.6	9,793.9	119.7	119.0	88.87	-15,180.8	-364.7	880.0	641.4	238.58	3.689		
25,365.0	9,811.9	25,281.6	9,793.9	120.2	119.4	88.87	-15,245.8	-365.2	880.0	640.4	239.56	3.673		
25,385.3	9,811.9	25,301.9	9,793.9	120.4	119.6	88.87	-15,266.1	-365.4	880.0	640.1	239.87	3.669		
25,400.0	9,812.0	25,316.6	9,793.9	120.5	119.7	88.87	-15,280.8	-365.5	880.0	639.9	240.09	3.665		
25,460.0	9,812.0	25,376.6	9,794.0	120.9	120.2	88.87	-15,340.8	-366.0	880.0	639.0	241.00	3.652		
25,461.0	9,812.0	25,377.5	9,794.0	120.9	120.2	88.87	-15,341.7	-366.0	880.0	639.0	241.01	3.651		
25,500.0	9,812.0	25,408.3	9,794.0	121.2	120.4	88.87	-15,372.5	-366.3	880.0	638.5	241.51	3.644		
25,515.5	9,812.0	25,408.3	9,794.0	121.3	120.4	88.87	-15,372.5	-366.3	880.3	638.8	241.51	3.645		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	-1.2	-59.9	59.9				
95.0	95.0	94.4	94.4	3.0	3.0	-91.15	-1.2	-59.9	59.9	53.9	6.04	9.926	
100.0	100.0	99.4	99.4	3.0	3.0	-91.15	-1.2	-59.9	59.9	53.9	6.04	9.918	
190.0	190.0	189.4	189.4	3.1	3.1	-91.15	-1.2	-59.9	59.9	53.7	6.25	9.584	
200.0	200.0	199.4	199.4	3.1	3.1	-91.15	-1.2	-59.9	59.9	53.6	6.29	9.532	
285.0	285.0	284.4	284.4	3.3	3.2	-91.15	-1.2	-59.9	59.9	53.4	6.48	9.243	
300.0	300.0	299.4	299.4	3.3	3.3	-91.15	-1.2	-59.9	59.9	53.4	6.52	9.187	
380.0	380.0	379.4	379.4	3.4	3.4	-91.15	-1.2	-59.9	59.9	53.2	6.70	8.940	
400.0	400.0	399.4	399.4	3.4	3.4	-91.15	-1.2	-59.9	59.9	53.2	6.75	8.876	
475.0	475.0	474.4	474.4	3.5	3.5	-91.15	-1.2	-59.9	59.9	53.0	6.91	8.667	
500.0	500.0	499.4	499.4	3.5	3.5	-91.15	-1.2	-59.9	59.9	52.9	6.97	8.596	
570.0	570.0	569.4	569.4	3.6	3.6	-91.15	-1.2	-59.9	59.9	52.8	7.12	8.417	
600.0	600.0	599.4	599.4	3.6	3.6	-91.15	-1.2	-59.9	59.9	52.7	7.18	8.340	
665.0	665.0	664.4	664.4	3.7	3.7	-91.15	-1.2	-59.9	59.9	52.6	7.32	8.188	
700.0	700.0	699.4	699.4	3.8	3.8	-91.15	-1.2	-59.9	59.9	52.5	7.39	8.106	
760.0	760.0	759.4	759.4	3.8	3.8	-91.15	-1.2	-59.9	59.9	52.4	7.51	7.976	
800.0	800.0	799.4	799.4	3.9	3.9	-91.15	-1.2	-59.9	59.9	52.3	7.59	7.890	
855.0	855.0	854.4	854.4	4.0	3.9	-91.15	-1.2	-59.9	59.9	52.2	7.70	7.780	
900.0	900.0	899.4	899.4	4.0	4.0	-91.15	-1.2	-59.9	59.9	52.1	7.79	7.691	
950.0	950.0	949.4	949.4	4.1	4.1	-91.15	-1.2	-59.9	59.9	52.0	7.89	7.598	
1,000.0	1,000.0	999.4	999.4	4.1	4.1	-91.15	-1.2	-59.9	59.9	51.9	7.98	7.506	
1,045.0	1,045.0	1,044.4	1,044.4	4.2	4.2	-91.15	-1.2	-59.9	59.9	51.8	8.07	7.428	
1,100.0	1,100.0	1,099.4	1,099.4	4.2	4.2	-91.15	-1.2	-59.9	59.9	51.7	8.17	7.334	
1,140.0	1,140.0	1,139.4	1,139.4	4.3	4.3	-91.15	-1.2	-59.9	59.9	51.7	8.24	7.269	
1,200.0	1,200.0	1,199.4	1,199.4	4.4	4.4	-91.15	-1.2	-59.9	59.9	51.6	8.35	7.173	
1,235.0	1,235.0	1,234.4	1,234.4	4.4	4.4	-91.15	-1.2	-59.9	59.9	51.5	8.41	7.120	
1,300.0	1,300.0	1,299.4	1,299.4	4.5	4.5	-91.15	-1.2	-59.9	59.9	51.4	8.53	7.023	
1,330.0	1,330.0	1,329.4	1,329.4	4.5	4.5	-91.15	-1.2	-59.9	59.9	51.3	8.58	6.980	
1,400.0	1,400.0	1,399.4	1,399.4	4.6	4.6	-91.15	-1.2	-59.9	59.9	51.2	8.71	6.881	
1,425.0	1,425.0	1,424.4	1,424.4	4.6	4.6	-91.15	-1.2	-59.9	59.9	51.2	8.75	6.847	
1,500.0	1,500.0	1,499.4	1,499.4	4.7	4.7	-91.15	-1.2	-59.9	59.9	51.0	8.88	6.748 CC, ES	
1,520.0	1,520.0	1,519.0	1,519.0	4.7	4.7	-141.96	-1.2	-60.0	60.0	51.1	8.94	6.713 SF	
1,600.0	1,600.0	1,597.4	1,597.4	4.9	4.8	-142.26	-0.6	-61.4	62.8	53.6	9.20	6.830	
1,615.0	1,615.0	1,612.1	1,612.1	4.9	4.9	-142.36	-0.4	-61.9	63.8	54.5	9.27	6.880	
1,700.0	1,699.8	1,695.0	1,694.8	5.1	5.0	-143.04	1.3	-66.0	71.6	62.0	9.68	7.399	
1,710.0	1,709.8	1,704.7	1,704.5	5.1	5.1	-143.14	1.6	-66.7	72.8	63.1	9.73	7.485	
1,800.0	1,799.5	1,791.5	1,791.0	5.4	5.3	-143.96	4.5	-73.6	86.3	76.1	10.18	8.477	
1,805.0	1,804.4	1,796.3	1,795.7	5.4	5.3	-144.01	4.6	-74.0	87.2	77.0	10.20	8.543	
1,900.0	1,898.7	1,886.5	1,885.3	5.7	5.5	-144.78	8.7	-84.0	106.7	96.0	10.69	9.983	
1,995.0	1,992.5	1,975.0	1,972.8	6.0	5.8	-145.37	13.8	-96.2	131.3	120.1	11.19	11.741	
2,000.0	1,997.5	1,979.6	1,977.3	6.0	5.8	-145.40	14.1	-96.9	132.8	121.6	11.21	11.841	
2,090.0	2,085.8	2,061.3	2,057.8	6.3	6.1	-145.78	19.8	-110.6	160.9	149.2	11.69	13.761	
2,100.0	2,095.6	2,070.3	2,066.5	6.3	6.1	-145.82	20.4	-112.2	164.3	152.6	11.75	13.988	
2,185.0	2,178.5	2,145.3	2,139.9	6.6	6.4	-146.03	26.5	-126.8	195.3	183.1	12.21	15.997	
2,200.0	2,193.1	2,158.4	2,152.6	6.7	6.5	-146.06	27.6	-129.5	201.2	188.9	12.29	16.368	
2,280.0	2,270.7	2,228.9	2,221.1	6.9	6.7	-146.41	34.0	-145.0	233.4	220.7	12.70	18.379	
2,300.0	2,290.1	2,247.2	2,238.8	7.0	6.8	-146.48	35.7	-149.1	241.5	228.7	12.80	18.862	
2,375.0	2,362.9	2,315.7	2,305.3	7.2	7.0	-146.69	42.0	-164.4	272.0	258.8	13.21	20.592	
2,400.0	2,387.1	2,338.5	2,327.5	7.3	7.0	-146.75	44.1	-169.5	282.1	268.8	13.35	21.141	
2,470.0	2,455.0	2,402.5	2,389.5	7.5	7.3	-146.90	50.0	-183.8	310.6	296.8	13.74	22.603	
2,500.0	2,484.1	2,429.9	2,416.1	7.6	7.4	-146.96	52.6	-189.9	322.8	308.8	13.91	23.198	

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 #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
2,565.0	2,547.2	2,489.3	2,473.8	7.9	7.6	-147.07	58.1	-203.2	349.2	334.9	14.30	24.423	
2,600.0	2,581.2	2,521.3	2,504.8	8.0	7.7	-147.12	61.0	-210.4	363.4	348.9	14.51	25.051	
2,660.0	2,639.4	2,576.1	2,558.0	8.2	7.9	-147.20	66.1	-222.6	387.8	372.9	14.87	26.073	
2,700.0	2,678.2	2,612.6	2,593.4	8.4	8.0	-147.25	69.5	-230.8	404.0	388.9	15.12	26.723	
2,755.0	2,731.6	2,662.9	2,642.2	8.6	8.2	-147.31	74.1	-242.0	426.4	410.9	15.47	27.568	
2,800.0	2,775.2	2,704.0	2,682.1	8.8	8.3	-147.36	77.9	-251.2	444.6	428.9	15.75	28.230	
2,850.0	2,823.7	2,749.7	2,726.4	9.0	8.5	-147.40	82.1	-261.4	465.0	448.9	16.07	28.925	
2,900.0	2,872.3	2,795.4	2,770.8	9.2	8.7	-147.44	86.4	-271.6	485.3	468.9	16.40	29.591	
2,945.0	2,915.9	2,836.5	2,810.7	9.3	8.9	-147.48	90.2	-280.8	503.6	486.9	16.70	30.158	
3,000.0	2,969.3	2,886.8	2,859.4	9.6	9.1	-147.52	94.8	-292.1	525.9	508.9	17.06	30.821	
3,040.0	3,008.1	2,923.3	2,894.9	9.7	9.2	-147.54	98.2	-300.2	542.2	524.8	17.33	31.279	
3,100.0	3,066.3	2,978.1	2,948.1	10.0	9.4	-147.58	103.3	-312.5	566.5	548.8	17.74	31.936	
3,135.0	3,100.3	3,010.1	2,979.1	10.1	9.6	-147.60	106.2	-319.6	580.8	562.8	17.98	32.301	
3,200.0	3,163.3	3,069.5	3,036.7	10.4	9.8	-147.64	111.7	-332.9	607.2	588.8	18.43	32.949	
3,230.0	3,192.5	3,096.9	3,063.3	10.5	9.9	-147.65	114.2	-339.0	619.4	600.7	18.64	33.234	
3,300.0	3,260.4	3,160.9	3,125.4	10.8	10.2	-147.68	120.1	-353.3	647.8	628.7	19.13	33.869	
3,325.0	3,284.6	3,183.7	3,147.5	10.9	10.3	-147.69	122.3	-358.4	658.0	638.7	19.30	34.086	
3,400.0	3,357.4	3,252.2	3,214.0	11.2	10.6	-147.73	128.6	-373.8	688.5	668.6	19.83	34.709	
3,420.0	3,376.8	3,270.5	3,231.8	11.3	10.7	-147.73	130.3	-377.8	696.6	676.6	19.98	34.868	
3,500.0	3,454.4	3,343.6	3,302.7	11.7	11.0	-147.76	137.0	-394.2	729.1	708.5	20.55	35.477	
3,515.0	3,469.0	3,357.3	3,316.0	11.7	11.0	-147.77	138.3	-397.2	735.2	714.5	20.66	35.586	
3,600.0	3,551.5	3,435.0	3,391.4	12.1	11.4	-147.80	145.5	-414.6	769.7	748.4	21.28	36.180	
3,610.0	3,561.2	3,444.1	3,400.2	12.2	11.4	-147.80	146.3	-416.6	773.8	752.4	21.35	36.246	
3,700.0	3,648.5	3,526.3	3,480.0	12.6	11.8	-147.83	153.9	-435.0	810.4	788.4	22.01	36.825	
3,705.0	3,653.3	3,530.9	3,484.4	12.6	11.8	-147.83	154.4	-436.0	812.4	790.3	22.04	36.855	
3,800.0	3,745.5	3,617.7	3,568.7	13.0	12.2	-147.85	162.4	-455.5	851.0	828.2	22.74	37.418	
3,895.0	3,837.7	3,704.5	3,652.9	13.4	12.6	-147.88	170.4	-474.9	889.6	866.1	23.45	37.939	
3,900.0	3,842.6	3,709.1	3,657.3	13.5	12.6	-147.88	170.8	-475.9	891.6	868.1	23.49	37.966	
3,990.0	3,929.9	3,791.3	3,737.1	13.9	12.9	-147.90	178.4	-494.3	928.2	904.0	24.16	38.422	
4,000.0	3,939.6	3,800.5	3,746.0	13.9	13.0	-147.90	179.3	-496.3	932.3	908.0	24.23	38.471	
4,085.0	4,022.1	3,878.1	3,821.3	14.3	13.3	-147.92	186.5	-513.7	966.8	941.9	24.87	38.871	
4,100.0	4,036.6	3,891.8	3,834.6	14.4	13.4	-147.92	187.7	-516.7	972.9	947.9	24.99	38.939	
4,180.0	4,114.2	3,964.9	3,905.6	14.7	13.7	-147.94	194.5	-533.1	1,005.4	979.8	25.59	39.288	
4,200.0	4,133.6	3,983.2	3,923.3	14.8	13.8	-147.94	196.2	-537.2	1,013.5	987.8	25.74	39.373	
4,275.0	4,206.4	4,051.7	3,989.8	15.2	14.1	-147.96	202.5	-552.5	1,044.0	1,017.7	26.31	39.678	
4,300.0	4,230.7	4,074.6	4,012.0	15.3	14.2	-147.96	204.6	-557.6	1,054.2	1,027.7	26.50	39.776	
4,370.0	4,298.6	4,138.5	4,074.0	15.6	14.5	-147.97	210.5	-571.9	1,082.6	1,055.6	27.04	40.042	
4,400.0	4,327.7	4,165.9	4,100.6	15.7	14.6	-147.98	213.1	-578.0	1,094.8	1,067.5	27.27	40.152	
4,465.0	4,390.8	4,225.3	4,158.2	16.0	14.9	-147.99	218.5	-591.3	1,121.2	1,093.5	27.77	40.382	
4,500.0	4,424.7	4,257.3	4,189.3	16.2	15.1	-147.99	221.5	-598.4	1,135.4	1,107.4	28.03	40.502	
4,537.3	4,460.9	4,291.4	4,222.3	16.4	15.2	-148.00	224.7	-606.0	1,150.6	1,122.3	28.31	40.642	
4,560.0	4,483.0	4,312.2	4,242.5	16.5	15.3	-148.10	226.6	-610.7	1,159.8	1,131.3	28.48	40.720	
4,600.0	4,521.9	4,348.9	4,278.2	16.6	15.5	-148.27	230.0	-618.9	1,175.5	1,146.8	28.78	40.841	
4,655.0	4,575.7	4,399.7	4,327.5	16.9	15.7	-148.47	234.7	-630.3	1,196.5	1,167.3	29.21	40.957	
4,700.0	4,619.8	4,441.6	4,368.1	17.1	15.9	-148.60	238.5	-639.6	1,213.1	1,183.5	29.57	41.027	
4,750.0	4,669.0	4,488.3	4,413.4	17.4	16.1	-148.72	242.9	-650.1	1,230.8	1,200.9	29.96	41.088	
4,800.0	4,718.4	4,535.3	4,459.0	17.6	16.3	-148.81	247.2	-660.6	1,247.9	1,217.5	30.35	41.122	
4,845.0	4,762.9	4,577.7	4,500.2	17.8	16.5	-148.87	251.1	-670.0	1,262.6	1,231.9	30.69	41.142	
4,900.0	4,817.5	4,629.8	4,550.7	18.0	16.8	-148.91	255.9	-681.7	1,279.9	1,248.8	31.11	41.138	
4,940.0	4,857.2	4,667.9	4,587.7	18.2	17.0	-148.92	259.5	-690.2	1,291.9	1,260.5	31.41	41.129	
5,000.0	4,916.9	4,725.2	4,643.3	18.4	17.2	-148.90	264.8	-703.0	1,309.0	1,277.2	31.86	41.087	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:		FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1										Offset Site Error:		0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS										Offset Well Error:		3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
5,035.0	4,951.8	4,758.8	4,675.9	18.6	17.4	-148.88	267.9	-710.5	1,318.6	1,286.5	32.11	41.061		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3125.3ft @ 3157.3usft

Offset Depths are relative to Offset Datum

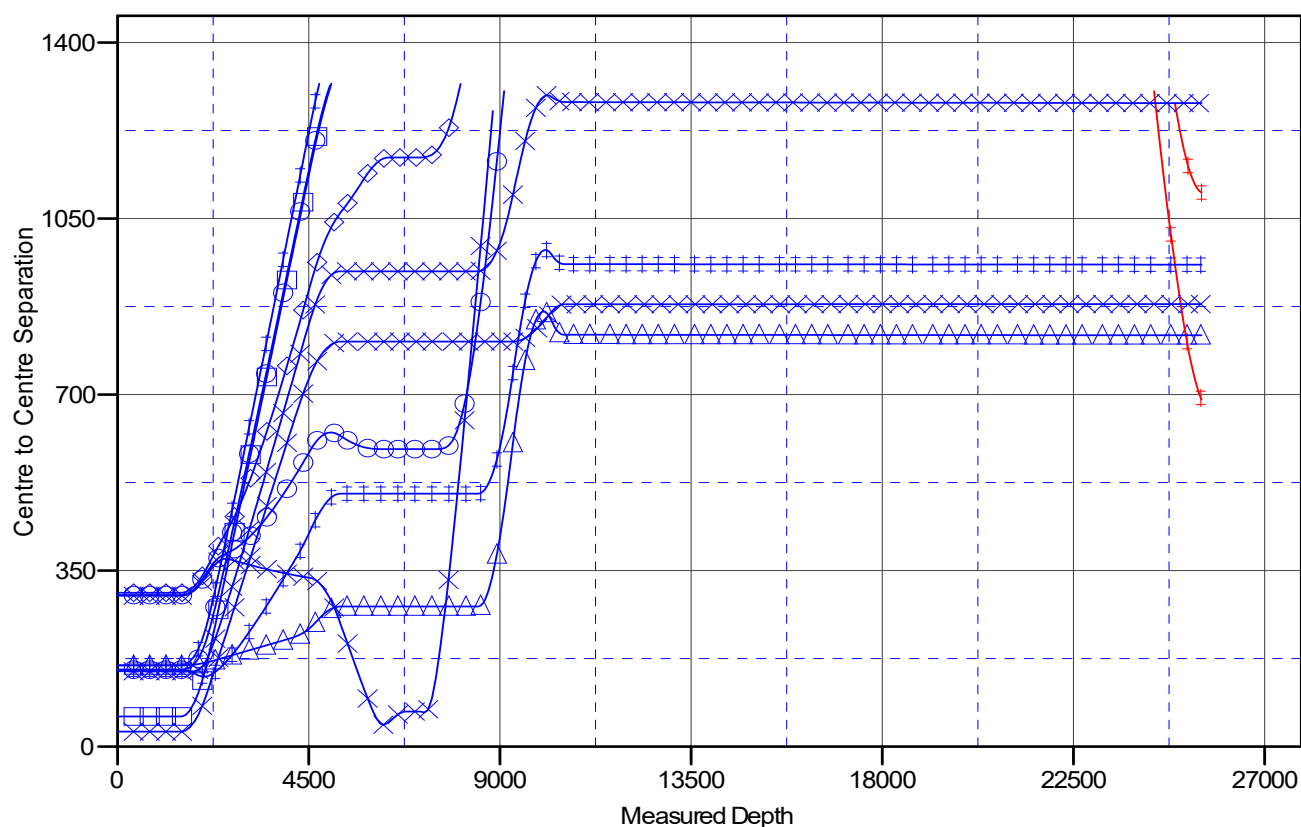
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #801H

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

Grid Convergence at Surface is: 0.08°

Ladder Plot



LEGEND

—●— CICADA UNIT #14H, OWB, AWP V0	—●— FLAMING SNAIL FEDERAL COM #520H, OWB, PWP0 V0	—●— FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0
—●— CICADA UNIT #16H, OWB, AWP V0	—●— FLAMING SNAIL FEDERAL COM #701H, OWB, PWP1 V0	—●— FLAMING SNAIL FEDERAL COM #705H, OWB, PWP1 V0
—●— FLAMING SNAIL FEDERAL COM #501H, OWB, PWP0 V0	—●— FLAMING SNAIL FEDERAL COM #702H, OWB, PWP1 V0	—●— FLAMING SNAIL FEDERAL COM #802H, 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

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3125.3ft @ 3157.3usft

Offset Depths are relative to Offset Datum

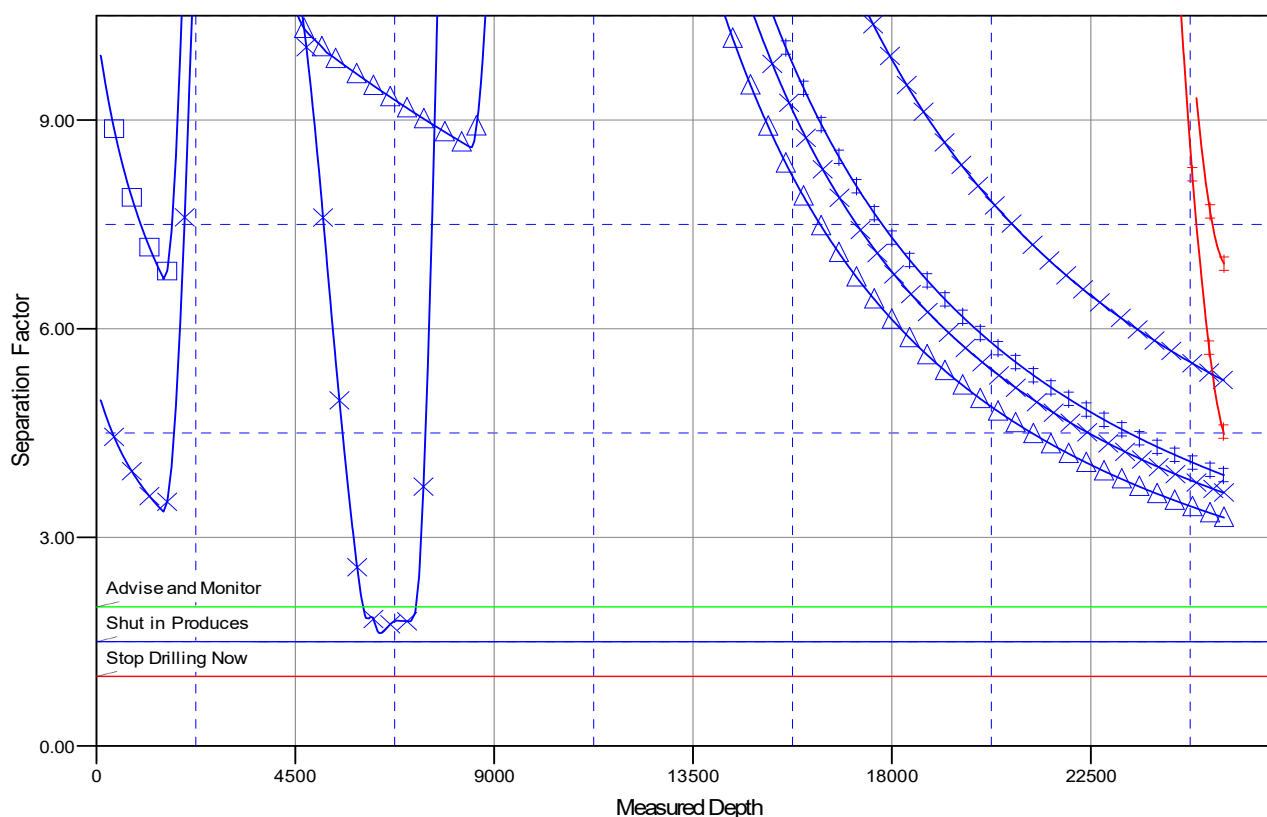
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #801H

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

Grid Convergence at Surface is: 0.08°

Separation Factor Plot



LEGEND

● CICADA UNIT #14H, OWB, AWP V0	● FLAMING SNAIL FEDERAL COM #520H, OWB, PWP0 V0	● FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0
● CICADA UNIT #16H, OWB, AWP V0	● FLAMING SNAIL FEDERAL COM #701H, OWB, PWP1 V0	● FLAMING SNAIL FEDERAL COM #705H, OWB, PWP1 V0
● FLAMING SNAIL FEDERAL COM #501H, OWB, PWP0 V0	● FLAMING SNAIL FEDERAL COM #702H, OWB, PWP1 V0	● FLAMING SNAIL FEDERAL COM #802H, 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

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 #801H

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 #801H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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

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

Well	FLAMING SNAIL FEDERAL COM #801H		
Well Position	+N/-S	-397.4 usft	Northing: 402,624.30 usft
	+E/-W	4,340.5 usft	Easting: 544,652.40 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:
			Ground Level: 3,125.3 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,317.63180565

Design	PWP1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	178.09

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	9,316.4 PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	9,316.4	25,515.3 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 #801H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,200.0	14.00	50.79	2,193.1	53.8	65.9	2.00	2.00	0.00	50.79	
4,537.3	14.00	50.79	4,460.9	411.2	504.1	0.00	0.00	0.00	0.00	
5,237.3	0.00	0.01	5,154.0	465.0	570.1	2.00	-2.00	0.00	180.00	
9,316.4	0.00	0.01	9,233.0	465.0	570.1	0.00	0.00	0.00	0.00	VT (FLAMING SNAIL
10,216.1	89.98	174.55	9,806.0	-105.1	624.4	10.00	10.00	0.00	174.55	
10,512.3	89.98	180.47	9,806.1	-400.9	637.3	2.00	0.00	2.00	90.01	
25,385.3	89.98	180.47	9,811.9	-15,273.4	514.4	0.00	0.00	0.00	0.00	LTP (FLAMING SNAIL
25,515.5	89.98	180.47	9,812.0	-15,403.5	513.3	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 #801H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #801H	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	50.79	1,600.0	1.1	1.4	-1.1	2.00	2.00	0.00
1,700.0	4.00	50.79	1,699.8	4.4	5.4	-4.2	2.00	2.00	0.00
1,800.0	6.00	50.79	1,799.5	9.9	12.2	-9.5	2.00	2.00	0.00
1,900.0	8.00	50.79	1,898.7	17.6	21.6	-16.9	2.00	2.00	0.00
2,000.0	10.00	50.79	1,997.5	27.5	33.7	-26.4	2.00	2.00	0.00
2,100.0	12.00	50.79	2,095.6	39.6	48.5	-37.9	2.00	2.00	0.00
2,200.0	14.00	50.79	2,193.1	53.8	65.9	-51.6	2.00	2.00	0.00
Start 2337.3 hold at 2200.0 MD									
2,300.0	14.00	50.79	2,290.1	69.1	84.7	-66.2	0.00	0.00	0.00
2,400.0	14.00	50.79	2,387.1	84.4	103.4	-80.9	0.00	0.00	0.00
2,500.0	14.00	50.79	2,484.1	99.7	122.2	-95.5	0.00	0.00	0.00
2,600.0	14.00	50.79	2,581.2	115.0	140.9	-110.2	0.00	0.00	0.00
2,700.0	14.00	50.79	2,678.2	130.3	159.7	-124.9	0.00	0.00	0.00
2,800.0	14.00	50.79	2,775.2	145.5	178.4	-139.5	0.00	0.00	0.00
2,900.0	14.00	50.79	2,872.3	160.8	197.2	-154.2	0.00	0.00	0.00
3,000.0	14.00	50.79	2,969.3	176.1	215.9	-168.8	0.00	0.00	0.00
3,100.0	14.00	50.79	3,066.3	191.4	234.7	-183.5	0.00	0.00	0.00
3,200.0	14.00	50.79	3,163.3	206.7	253.4	-198.2	0.00	0.00	0.00
3,300.0	14.00	50.79	3,260.4	222.0	272.2	-212.8	0.00	0.00	0.00
3,400.0	14.00	50.79	3,357.4	237.3	290.9	-227.5	0.00	0.00	0.00
3,500.0	14.00	50.79	3,454.4	252.6	309.6	-242.1	0.00	0.00	0.00
3,600.0	14.00	50.79	3,551.5	267.9	328.4	-256.8	0.00	0.00	0.00
3,700.0	14.00	50.79	3,648.5	283.2	347.1	-271.5	0.00	0.00	0.00
3,800.0	14.00	50.79	3,745.5	298.5	365.9	-286.1	0.00	0.00	0.00
3,900.0	14.00	50.79	3,842.6	313.8	384.6	-300.8	0.00	0.00	0.00
4,000.0	14.00	50.79	3,939.6	329.1	403.4	-315.4	0.00	0.00	0.00
4,100.0	14.00	50.79	4,036.6	344.4	422.1	-330.1	0.00	0.00	0.00
4,200.0	14.00	50.79	4,133.6	359.6	440.9	-344.8	0.00	0.00	0.00
4,300.0	14.00	50.79	4,230.7	374.9	459.6	-359.4	0.00	0.00	0.00
4,400.0	14.00	50.79	4,327.7	390.2	478.4	-374.1	0.00	0.00	0.00
4,500.0	14.00	50.79	4,424.7	405.5	497.1	-388.7	0.00	0.00	0.00
4,537.3	14.00	50.79	4,460.9	411.2	504.1	-394.2	0.00	0.00	0.00
Start Drop -2.00									
4,600.0	12.75	50.79	4,521.9	420.4	515.3	-403.0	2.00	-2.00	0.00
4,700.0	10.75	50.79	4,619.8	433.3	531.1	-415.3	2.00	-2.00	0.00
4,800.0	8.75	50.79	4,718.4	444.0	544.2	-425.6	2.00	-2.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	6.75	50.79	4,817.5	452.5	554.7	-433.8	2.00	-2.00	0.00
5,000.0	4.75	50.79	4,916.9	458.8	562.4	-439.8	2.00	-2.00	0.00
5,100.0	2.75	50.79	5,016.7	462.9	567.5	-443.8	2.00	-2.00	0.00
5,200.0	0.75	50.79	5,116.7	464.9	569.9	-445.6	2.00	-2.00	0.00
5,237.3	0.00	0.00	5,154.0	465.0	570.1	-445.8	2.00	-2.00	0.00
Start 4079.0 hold at 5237.3 MD									
5,300.0	0.00	0.00	5,216.7	465.0	570.1	-445.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,316.7	465.0	570.1	-445.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,416.7	465.0	570.1	-445.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,516.7	465.0	570.1	-445.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,616.7	465.0	570.1	-445.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,716.7	465.0	570.1	-445.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,816.7	465.0	570.1	-445.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,916.7	465.0	570.1	-445.8	0.00	0.00	0.00
6,100.0	0.00	0.00	6,016.7	465.0	570.1	-445.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,116.7	465.0	570.1	-445.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,216.7	465.0	570.1	-445.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,316.7	465.0	570.1	-445.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,416.7	465.0	570.1	-445.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,516.7	465.0	570.1	-445.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,616.7	465.0	570.1	-445.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,716.7	465.0	570.1	-445.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,816.7	465.0	570.1	-445.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,916.7	465.0	570.1	-445.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,016.7	465.0	570.1	-445.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,116.7	465.0	570.1	-445.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,216.7	465.0	570.1	-445.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,316.7	465.0	570.1	-445.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,416.7	465.0	570.1	-445.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,516.7	465.0	570.1	-445.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,616.7	465.0	570.1	-445.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,716.7	465.0	570.1	-445.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,816.7	465.0	570.1	-445.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,916.7	465.0	570.1	-445.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,016.7	465.0	570.1	-445.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,116.7	465.0	570.1	-445.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,216.7	465.0	570.1	-445.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,316.7	465.0	570.1	-445.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,416.7	465.0	570.1	-445.8	0.00	0.00	0.00
8,600.0	0.00	0.00	8,516.7	465.0	570.1	-445.8	0.00	0.00	0.00
8,700.0	0.00	0.00	8,616.7	465.0	570.1	-445.8	0.00	0.00	0.00
8,800.0	0.00	0.00	8,716.7	465.0	570.1	-445.8	0.00	0.00	0.00
8,900.0	0.00	0.00	8,816.7	465.0	570.1	-445.8	0.00	0.00	0.00
9,000.0	0.00	0.00	8,916.7	465.0	570.1	-445.8	0.00	0.00	0.00
9,100.0	0.00	0.00	9,016.7	465.0	570.1	-445.8	0.00	0.00	0.00
9,200.0	0.00	0.00	9,116.7	465.0	570.1	-445.8	0.00	0.00	0.00
9,300.0	0.00	0.00	9,216.7	465.0	570.1	-445.8	0.00	0.00	0.00
9,316.4	0.00	0.00	9,233.0	465.0	570.1	-445.8	0.00	0.00	0.00
Start Build 10.00									
9,350.0	3.36	174.55	9,266.7	464.0	570.1	-444.8	10.00	10.00	0.00
9,400.0	8.36	174.55	9,316.4	459.0	570.6	-439.7	10.00	10.00	0.00
9,450.0	13.36	174.55	9,365.5	449.6	571.5	-430.3	10.00	10.00	0.00
9,500.0	18.36	174.55	9,413.5	436.0	572.8	-416.7	10.00	10.00	0.00
9,550.0	23.36	174.55	9,460.3	418.3	574.5	-398.9	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #801H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,600.0	28.36	174.55	9,505.2	396.6	576.6	-377.1	10.00	10.00	0.00
9,650.0	33.36	174.55	9,548.1	371.0	579.0	-351.5	10.00	10.00	0.00
9,700.0	38.36	174.55	9,588.6	341.9	581.8	-322.3	10.00	10.00	0.00
9,750.0	43.36	174.55	9,626.4	309.3	584.9	-289.7	10.00	10.00	0.00
9,800.0	48.36	174.55	9,661.3	273.6	588.3	-253.9	10.00	10.00	0.00
9,850.0	53.36	174.55	9,692.8	235.0	592.0	-215.2	10.00	10.00	0.00
9,900.0	58.36	174.55	9,720.9	193.8	595.9	-173.9	10.00	10.00	0.00
9,950.0	63.36	174.55	9,745.2	150.4	600.1	-130.3	10.00	10.00	0.00
10,000.0	68.36	174.55	9,765.6	105.0	604.4	-84.8	10.00	10.00	0.00
10,050.0	73.36	174.55	9,782.0	58.0	608.9	-37.6	10.00	10.00	0.00
10,100.0	78.36	174.55	9,794.2	9.7	613.5	10.7	10.00	10.00	0.00
10,150.0	83.36	174.55	9,802.2	-39.4	618.2	60.0	10.00	10.00	0.00
10,200.0	88.36	174.55	9,805.8	-89.0	622.9	109.8	10.00	10.00	0.00
10,216.1	89.98	174.55	9,806.0	-105.1	624.4	125.9	10.00	10.00	0.00
Start DLS 2.00 TFO 90.01									
10,300.0	89.98	176.23	9,806.0	-188.7	631.2	209.6	2.00	0.00	2.00
10,400.0	89.98	178.23	9,806.1	-288.6	636.0	309.6	2.00	0.00	2.00
10,500.0	89.98	180.23	9,806.1	-388.6	637.4	409.6	2.00	0.00	2.00
10,512.3	89.98	180.47	9,806.1	-400.9	637.3	421.9	2.00	0.00	2.00
Start 14873.0 hold at 10512.3 MD									
10,600.0	89.98	180.47	9,806.1	-488.6	636.6	509.5	0.00	0.00	0.00
10,700.0	89.98	180.47	9,806.2	-588.6	635.8	609.4	0.00	0.00	0.00
10,800.0	89.98	180.47	9,806.2	-688.6	634.9	709.3	0.00	0.00	0.00
10,900.0	89.98	180.47	9,806.3	-788.6	634.1	809.2	0.00	0.00	0.00
11,000.0	89.98	180.47	9,806.3	-888.5	633.3	909.1	0.00	0.00	0.00
11,100.0	89.98	180.47	9,806.3	-988.5	632.4	1,009.1	0.00	0.00	0.00
11,200.0	89.98	180.47	9,806.4	-1,088.5	631.6	1,109.0	0.00	0.00	0.00
11,300.0	89.98	180.47	9,806.4	-1,188.5	630.8	1,208.9	0.00	0.00	0.00
11,400.0	89.98	180.47	9,806.5	-1,288.5	630.0	1,308.8	0.00	0.00	0.00
11,500.0	89.98	180.47	9,806.5	-1,388.5	629.1	1,408.7	0.00	0.00	0.00
11,600.0	89.98	180.47	9,806.5	-1,488.5	628.3	1,508.6	0.00	0.00	0.00
11,700.0	89.98	180.47	9,806.6	-1,588.5	627.5	1,608.5	0.00	0.00	0.00
11,800.0	89.98	180.47	9,806.6	-1,688.5	626.7	1,708.5	0.00	0.00	0.00
11,900.0	89.98	180.47	9,806.7	-1,788.5	625.8	1,808.4	0.00	0.00	0.00
12,000.0	89.98	180.47	9,806.7	-1,888.5	625.0	1,908.3	0.00	0.00	0.00
12,100.0	89.98	180.47	9,806.7	-1,988.5	624.2	2,008.2	0.00	0.00	0.00
12,200.0	89.98	180.47	9,806.8	-2,088.5	623.4	2,108.1	0.00	0.00	0.00
12,300.0	89.98	180.47	9,806.8	-2,188.5	622.5	2,208.0	0.00	0.00	0.00
12,400.0	89.98	180.47	9,806.9	-2,288.5	621.7	2,307.9	0.00	0.00	0.00
12,500.0	89.98	180.47	9,806.9	-2,388.5	620.9	2,407.9	0.00	0.00	0.00
12,600.0	89.98	180.47	9,806.9	-2,488.5	620.1	2,507.8	0.00	0.00	0.00
12,700.0	89.98	180.47	9,807.0	-2,588.5	619.2	2,607.7	0.00	0.00	0.00
12,800.0	89.98	180.47	9,807.0	-2,688.5	618.4	2,707.6	0.00	0.00	0.00
12,900.0	89.98	180.47	9,807.1	-2,788.5	617.6	2,807.5	0.00	0.00	0.00
13,000.0	89.98	180.47	9,807.1	-2,888.5	616.7	2,907.4	0.00	0.00	0.00
13,100.0	89.98	180.47	9,807.1	-2,988.5	615.9	3,007.3	0.00	0.00	0.00
13,200.0	89.98	180.47	9,807.2	-3,088.5	615.1	3,107.2	0.00	0.00	0.00
13,300.0	89.98	180.47	9,807.2	-3,188.5	614.3	3,207.2	0.00	0.00	0.00
13,400.0	89.98	180.47	9,807.2	-3,288.5	613.4	3,307.1	0.00	0.00	0.00
13,500.0	89.98	180.47	9,807.3	-3,388.5	612.6	3,407.0	0.00	0.00	0.00
13,600.0	89.98	180.47	9,807.3	-3,488.5	611.8	3,506.9	0.00	0.00	0.00
13,700.0	89.98	180.47	9,807.4	-3,588.5	611.0	3,606.8	0.00	0.00	0.00
13,800.0	89.98	180.47	9,807.4	-3,688.5	610.1	3,706.7	0.00	0.00	0.00
13,900.0	89.98	180.47	9,807.4	-3,788.4	609.3	3,806.6	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #801H	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)
14,000.0	89.98	180.47	9,807.5	-3,888.4	608.5	3,906.6	0.00	0.00	0.00
14,100.0	89.98	180.47	9,807.5	-3,988.4	607.7	4,006.5	0.00	0.00	0.00
14,200.0	89.98	180.47	9,807.6	-4,088.4	606.8	4,106.4	0.00	0.00	0.00
14,300.0	89.98	180.47	9,807.6	-4,188.4	606.0	4,206.3	0.00	0.00	0.00
14,400.0	89.98	180.47	9,807.6	-4,288.4	605.2	4,306.2	0.00	0.00	0.00
14,500.0	89.98	180.47	9,807.7	-4,388.4	604.4	4,406.1	0.00	0.00	0.00
14,600.0	89.98	180.47	9,807.7	-4,488.4	603.5	4,506.0	0.00	0.00	0.00
14,700.0	89.98	180.47	9,807.8	-4,588.4	602.7	4,606.0	0.00	0.00	0.00
14,800.0	89.98	180.47	9,807.8	-4,688.4	601.9	4,705.9	0.00	0.00	0.00
14,900.0	89.98	180.47	9,807.8	-4,788.4	601.0	4,805.8	0.00	0.00	0.00
15,000.0	89.98	180.47	9,807.9	-4,888.4	600.2	4,905.7	0.00	0.00	0.00
15,100.0	89.98	180.47	9,807.9	-4,988.4	599.4	5,005.6	0.00	0.00	0.00
15,200.0	89.98	180.47	9,808.0	-5,088.4	598.6	5,105.5	0.00	0.00	0.00
15,300.0	89.98	180.47	9,808.0	-5,188.4	597.7	5,205.4	0.00	0.00	0.00
15,400.0	89.98	180.47	9,808.0	-5,288.4	596.9	5,305.3	0.00	0.00	0.00
15,500.0	89.98	180.47	9,808.1	-5,388.4	596.1	5,405.3	0.00	0.00	0.00
15,600.0	89.98	180.47	9,808.1	-5,488.4	595.3	5,505.2	0.00	0.00	0.00
15,700.0	89.98	180.47	9,808.1	-5,588.4	594.4	5,605.1	0.00	0.00	0.00
15,800.0	89.98	180.47	9,808.2	-5,688.4	593.6	5,705.0	0.00	0.00	0.00
15,900.0	89.98	180.47	9,808.2	-5,788.4	592.8	5,804.9	0.00	0.00	0.00
16,000.0	89.98	180.47	9,808.3	-5,888.4	592.0	5,904.8	0.00	0.00	0.00
16,100.0	89.98	180.47	9,808.3	-5,988.4	591.1	6,004.7	0.00	0.00	0.00
16,200.0	89.98	180.47	9,808.3	-6,088.4	590.3	6,104.7	0.00	0.00	0.00
16,300.0	89.98	180.47	9,808.4	-6,188.4	589.5	6,204.6	0.00	0.00	0.00
16,400.0	89.98	180.47	9,808.4	-6,288.4	588.6	6,304.5	0.00	0.00	0.00
16,500.0	89.98	180.47	9,808.5	-6,388.4	587.8	6,404.4	0.00	0.00	0.00
16,600.0	89.98	180.47	9,808.5	-6,488.4	587.0	6,504.3	0.00	0.00	0.00
16,700.0	89.98	180.47	9,808.5	-6,588.4	586.2	6,604.2	0.00	0.00	0.00
16,800.0	89.98	180.47	9,808.6	-6,688.3	585.3	6,704.1	0.00	0.00	0.00
16,900.0	89.98	180.47	9,808.6	-6,788.3	584.5	6,804.0	0.00	0.00	0.00
17,000.0	89.98	180.47	9,808.7	-6,888.3	583.7	6,904.0	0.00	0.00	0.00
17,100.0	89.98	180.47	9,808.7	-6,988.3	582.9	7,003.9	0.00	0.00	0.00
17,200.0	89.98	180.47	9,808.7	-7,088.3	582.0	7,103.8	0.00	0.00	0.00
17,300.0	89.98	180.47	9,808.8	-7,188.3	581.2	7,203.7	0.00	0.00	0.00
17,400.0	89.98	180.47	9,808.8	-7,288.3	580.4	7,303.6	0.00	0.00	0.00
17,500.0	89.98	180.47	9,808.9	-7,388.3	579.6	7,403.5	0.00	0.00	0.00
17,600.0	89.98	180.47	9,808.9	-7,488.3	578.7	7,503.4	0.00	0.00	0.00
17,700.0	89.98	180.47	9,808.9	-7,588.3	577.9	7,603.4	0.00	0.00	0.00
17,800.0	89.98	180.47	9,809.0	-7,688.3	577.1	7,703.3	0.00	0.00	0.00
17,900.0	89.98	180.47	9,809.0	-7,788.3	576.3	7,803.2	0.00	0.00	0.00
18,000.0	89.98	180.47	9,809.1	-7,888.3	575.4	7,903.1	0.00	0.00	0.00
18,100.0	89.98	180.47	9,809.1	-7,988.3	574.6	8,003.0	0.00	0.00	0.00
18,200.0	89.98	180.47	9,809.1	-8,088.3	573.8	8,102.9	0.00	0.00	0.00
18,300.0	89.98	180.47	9,809.2	-8,188.3	572.9	8,202.8	0.00	0.00	0.00
18,400.0	89.98	180.47	9,809.2	-8,288.3	572.1	8,302.8	0.00	0.00	0.00
18,500.0	89.98	180.47	9,809.2	-8,388.3	571.3	8,402.7	0.00	0.00	0.00
18,600.0	89.98	180.47	9,809.3	-8,488.3	570.5	8,502.6	0.00	0.00	0.00
18,700.0	89.98	180.47	9,809.3	-8,588.3	569.6	8,602.5	0.00	0.00	0.00
18,800.0	89.98	180.47	9,809.4	-8,688.3	568.8	8,702.4	0.00	0.00	0.00
18,900.0	89.98	180.47	9,809.4	-8,788.3	568.0	8,802.3	0.00	0.00	0.00
19,000.0	89.98	180.47	9,809.4	-8,888.3	567.2	8,902.2	0.00	0.00	0.00
19,100.0	89.98	180.47	9,809.5	-8,988.3	566.3	9,002.1	0.00	0.00	0.00
19,200.0	89.98	180.47	9,809.5	-9,088.3	565.5	9,102.1	0.00	0.00	0.00
19,300.0	89.98	180.47	9,809.6	-9,188.3	564.7	9,202.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #801H	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)
19,400.0	89.98	180.47	9,809.6	-9,288.3	563.9	9,301.9	0.00	0.00	0.00
19,500.0	89.98	180.47	9,809.6	-9,388.3	563.0	9,401.8	0.00	0.00	0.00
19,600.0	89.98	180.47	9,809.7	-9,488.3	562.2	9,501.7	0.00	0.00	0.00
19,700.0	89.98	180.47	9,809.7	-9,588.2	561.4	9,601.6	0.00	0.00	0.00
19,800.0	89.98	180.47	9,809.8	-9,688.2	560.6	9,701.5	0.00	0.00	0.00
19,900.0	89.98	180.47	9,809.8	-9,788.2	559.7	9,801.5	0.00	0.00	0.00
20,000.0	89.98	180.47	9,809.8	-9,888.2	558.9	9,901.4	0.00	0.00	0.00
20,100.0	89.98	180.47	9,809.9	-9,988.2	558.1	10,001.3	0.00	0.00	0.00
20,200.0	89.98	180.47	9,809.9	-10,088.2	557.2	10,101.2	0.00	0.00	0.00
20,300.0	89.98	180.47	9,810.0	-10,188.2	556.4	10,201.1	0.00	0.00	0.00
20,400.0	89.98	180.47	9,810.0	-10,288.2	555.6	10,301.0	0.00	0.00	0.00
20,500.0	89.98	180.47	9,810.0	-10,388.2	554.8	10,400.9	0.00	0.00	0.00
20,600.0	89.98	180.47	9,810.1	-10,488.2	553.9	10,500.9	0.00	0.00	0.00
20,700.0	89.98	180.47	9,810.1	-10,588.2	553.1	10,600.8	0.00	0.00	0.00
20,800.0	89.98	180.47	9,810.2	-10,688.2	552.3	10,700.7	0.00	0.00	0.00
20,900.0	89.98	180.47	9,810.2	-10,788.2	551.5	10,800.6	0.00	0.00	0.00
21,000.0	89.98	180.47	9,810.2	-10,888.2	550.6	10,900.5	0.00	0.00	0.00
21,100.0	89.98	180.47	9,810.3	-10,988.2	549.8	11,000.4	0.00	0.00	0.00
21,200.0	89.98	180.47	9,810.3	-11,088.2	549.0	11,100.3	0.00	0.00	0.00
21,300.0	89.98	180.47	9,810.3	-11,188.2	548.2	11,200.2	0.00	0.00	0.00
21,400.0	89.98	180.47	9,810.4	-11,288.2	547.3	11,300.2	0.00	0.00	0.00
21,500.0	89.98	180.47	9,810.4	-11,388.2	546.5	11,400.1	0.00	0.00	0.00
21,600.0	89.98	180.47	9,810.5	-11,488.2	545.7	11,500.0	0.00	0.00	0.00
21,700.0	89.98	180.47	9,810.5	-11,588.2	544.9	11,599.9	0.00	0.00	0.00
21,800.0	89.98	180.47	9,810.5	-11,688.2	544.0	11,699.8	0.00	0.00	0.00
21,900.0	89.98	180.47	9,810.6	-11,788.2	543.2	11,799.7	0.00	0.00	0.00
22,000.0	89.98	180.47	9,810.6	-11,888.2	542.4	11,899.6	0.00	0.00	0.00
22,100.0	89.98	180.47	9,810.7	-11,988.2	541.5	11,999.6	0.00	0.00	0.00
22,200.0	89.98	180.47	9,810.7	-12,088.2	540.7	12,099.5	0.00	0.00	0.00
22,300.0	89.98	180.47	9,810.7	-12,188.2	539.9	12,199.4	0.00	0.00	0.00
22,400.0	89.98	180.47	9,810.8	-12,288.2	539.1	12,299.3	0.00	0.00	0.00
22,500.0	89.98	180.47	9,810.8	-12,388.2	538.2	12,399.2	0.00	0.00	0.00
22,600.0	89.98	180.47	9,810.9	-12,488.1	537.4	12,499.1	0.00	0.00	0.00
22,700.0	89.98	180.47	9,810.9	-12,588.1	536.6	12,599.0	0.00	0.00	0.00
22,800.0	89.98	180.47	9,810.9	-12,688.1	535.8	12,698.9	0.00	0.00	0.00
22,900.0	89.98	180.47	9,811.0	-12,788.1	534.9	12,798.8	0.00	0.00	0.00
23,000.0	89.98	180.47	9,811.0	-12,888.1	534.1	12,898.8	0.00	0.00	0.00
23,100.0	89.98	180.47	9,811.1	-12,988.1	533.3	12,998.7	0.00	0.00	0.00
23,200.0	89.98	180.47	9,811.1	-13,088.1	532.5	13,098.6	0.00	0.00	0.00
23,300.0	89.98	180.47	9,811.1	-13,188.1	531.6	13,198.5	0.00	0.00	0.00
23,400.0	89.98	180.47	9,811.2	-13,288.1	530.8	13,298.4	0.00	0.00	0.00
23,500.0	89.98	180.47	9,811.2	-13,388.1	530.0	13,398.3	0.00	0.00	0.00
23,600.0	89.98	180.47	9,811.2	-13,488.1	529.2	13,498.3	0.00	0.00	0.00
23,700.0	89.98	180.47	9,811.3	-13,588.1	528.3	13,598.2	0.00	0.00	0.00
23,800.0	89.98	180.47	9,811.3	-13,688.1	527.5	13,698.1	0.00	0.00	0.00
23,900.0	89.98	180.47	9,811.4	-13,788.1	526.7	13,798.0	0.00	0.00	0.00
24,000.0	89.98	180.47	9,811.4	-13,888.1	525.8	13,897.9	0.00	0.00	0.00
24,100.0	89.98	180.47	9,811.4	-13,988.1	525.0	13,997.8	0.00	0.00	0.00
24,200.0	89.98	180.47	9,811.5	-14,088.1	524.2	14,097.7	0.00	0.00	0.00
24,300.0	89.98	180.47	9,811.5	-14,188.1	523.4	14,197.7	0.00	0.00	0.00
24,400.0	89.98	180.47	9,811.6	-14,288.1	522.5	14,297.6	0.00	0.00	0.00
24,500.0	89.98	180.47	9,811.6	-14,388.1	521.7	14,397.5	0.00	0.00	0.00
24,600.0	89.98	180.47	9,811.6	-14,488.1	520.9	14,497.4	0.00	0.00	0.00
24,700.0	89.98	180.47	9,811.7	-14,588.1	520.1	14,597.3	0.00	0.00	0.00

ConocoPhillips

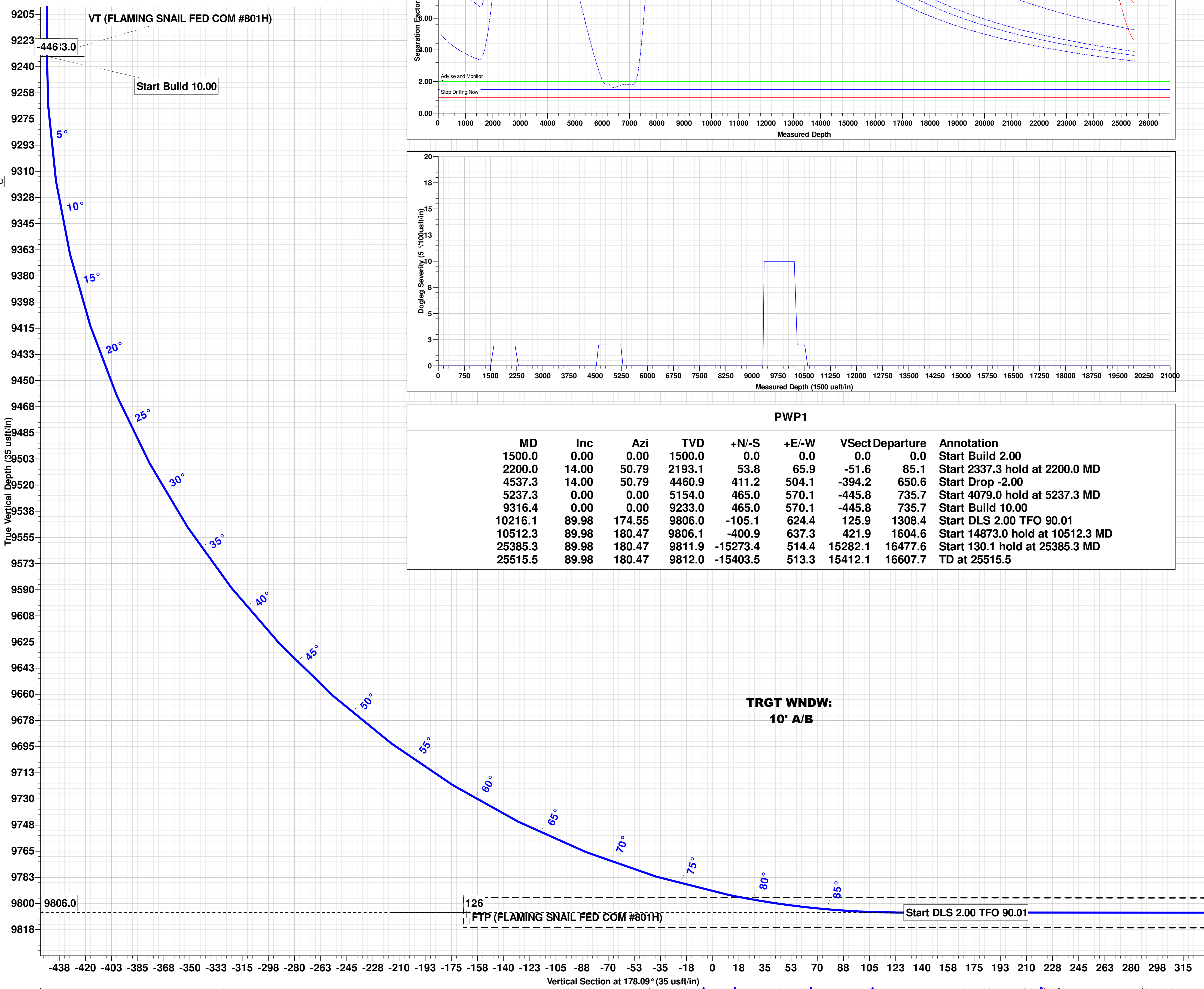
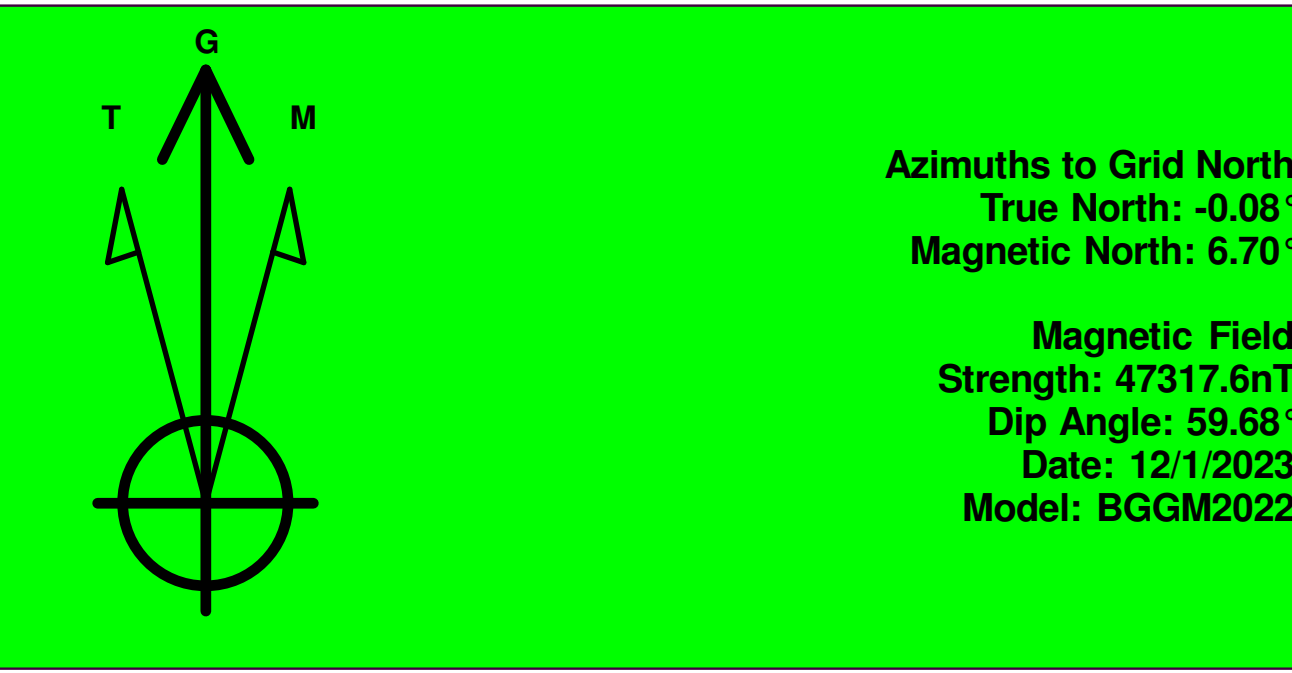
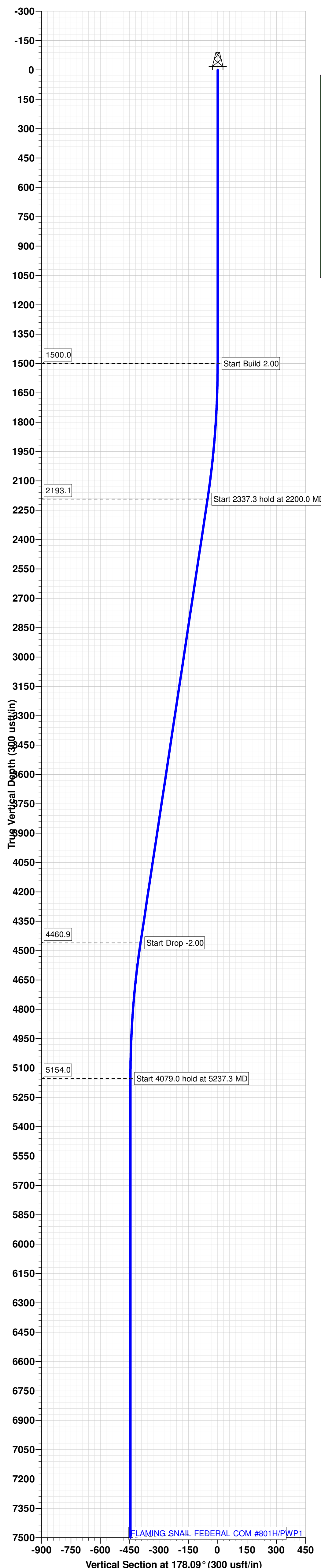
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #801H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3125.3ft @ 3157.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #801H	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)	
24,800.0	89.98	180.47	9,811.7	-14,688.1	519.2	14,697.2	0.00	0.00	0.00	
24,900.0	89.98	180.47	9,811.8	-14,788.1	518.4	14,797.1	0.00	0.00	0.00	
25,000.0	89.98	180.47	9,811.8	-14,888.1	517.6	14,897.0	0.00	0.00	0.00	
25,100.0	89.98	180.47	9,811.8	-14,988.1	516.8	14,997.0	0.00	0.00	0.00	
25,200.0	89.98	180.47	9,811.9	-15,088.1	515.9	15,096.9	0.00	0.00	0.00	
25,300.0	89.98	180.47	9,811.9	-15,188.1	515.1	15,196.8	0.00	0.00	0.00	
25,385.3	89.98	180.47	9,811.9	-15,273.4	514.4	15,282.1	0.00	0.00	0.00	
Start 130.1 hold at 25385.3 MD										
25,400.0	89.98	180.47	9,812.0	-15,288.1	514.3	15,296.7	0.00	0.00	0.00	
25,500.0	89.98	180.47	9,812.0	-15,388.1	513.5	15,396.6	0.00	0.00	0.00	
25,515.5	89.98	180.47	9,812.0	-15,403.5	513.3	15,412.1	0.00	0.00	0.00	
TD at 25515.5										

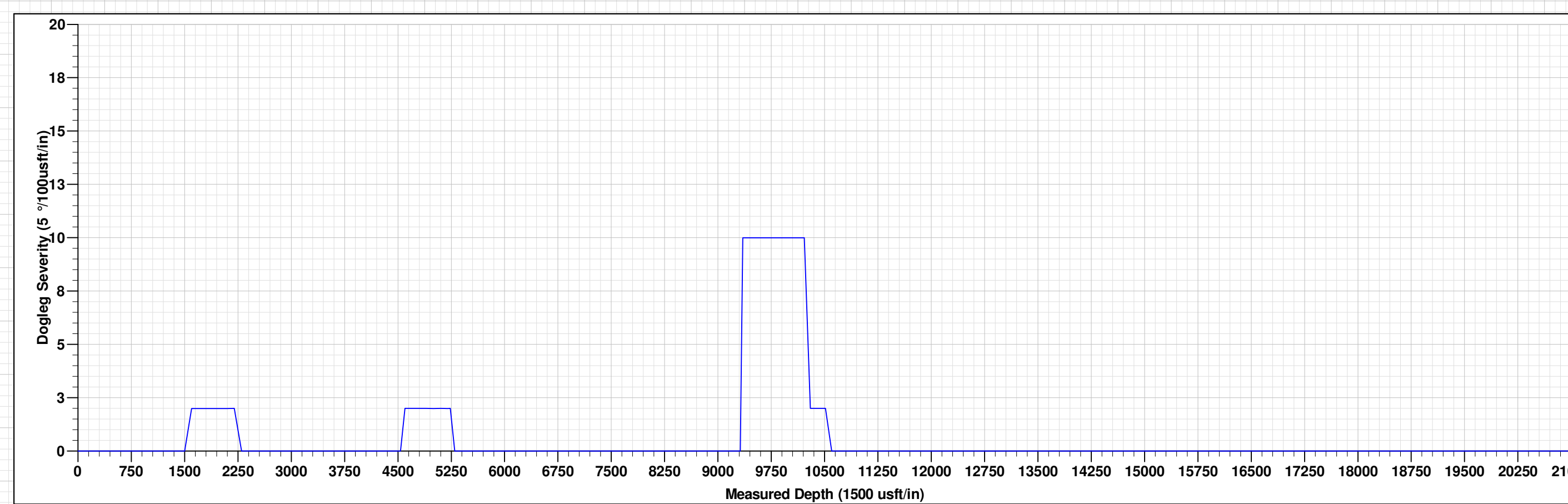
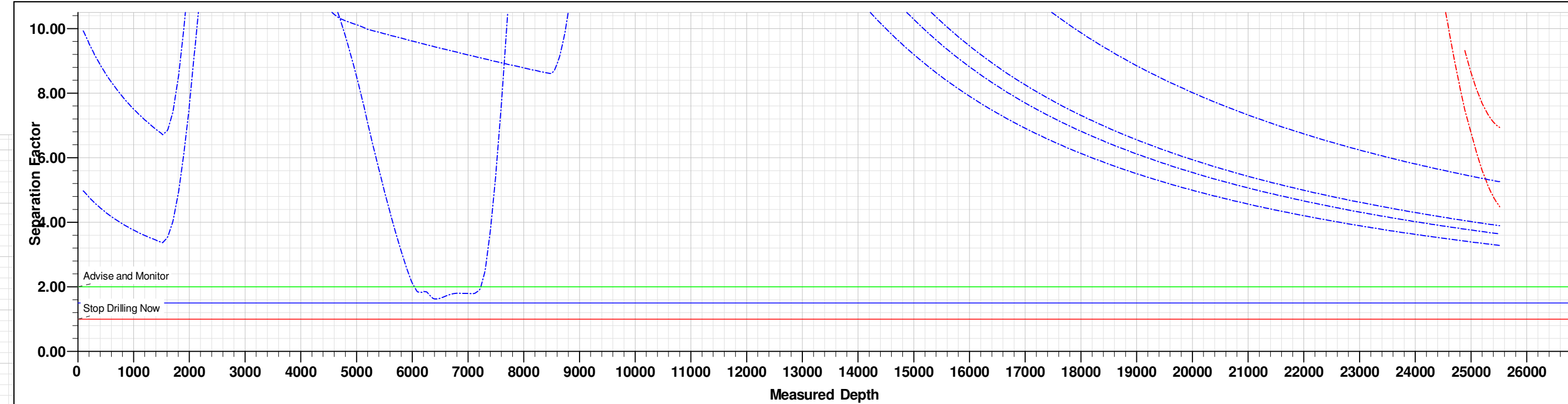
Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
VT (FLAMING SNAIL FE - hit/miss target - Shape	0.00	0.00	9,233.0	465.0	570.1	403,089.33	545,222.45	32° 6' 29.248 N	104° 11' 14.209 W	
FTP (FLAMING SNAIL F - plan misses target center by 82.2usft at 9950.0usft MD (9745.2 TVD, 150.4 N, 600.1 E) - Circle (radius 50.0)	0.00	0.00	9,806.0	186.3	642.1	402,810.60	545,294.50	32° 6' 26.489 N	104° 11' 13.376 W	
LTP (FLAMING SNAIL F - plan hits target center - Point	0.00	0.00	9,811.9	-15,273.4	514.4	387,350.90	545,166.80	32° 3' 53.493 N	104° 11' 15.104 W	
PBHL (FLAMING SNAIL - plan misses target center by 0.1usft at 25515.4usft MD (9812.0 TVD, -15403.5 N, 513.3 E) - Rectangle (sides W100.0 H15,590.3 D20.0)	0.02	0.47	9,812.0	-15,403.5	513.4	387,220.80	545,165.80	32° 3' 52.205 N	104° 11' 15.117 W	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00	
2,200.0	2,193.1	53.8	65.9	Start 2337.3 hold at 2200.0 MD	
4,537.3	4,460.9	411.2	504.1	Start Drop -2.00	
5,237.3	5,154.0	465.0	570.1	Start 4079.0 hold at 5237.3 MD	
9,316.4	9,233.0	465.0	570.1	Start Build 10.00	
10,216.1	9,806.0	-105.1	624.4	Start DLS 2.00 TFO 90.01	
10,512.3	9,806.1	-400.9	637.3	Start 14873.0 hold at 10512.3 MD	
25,385.3	9,811.9	-15,273.4	514.4	Start 130.1 hold at 25385.3 MD	
25,515.5	9,812.0	-15,403.5	513.3	TD at 25515.5	

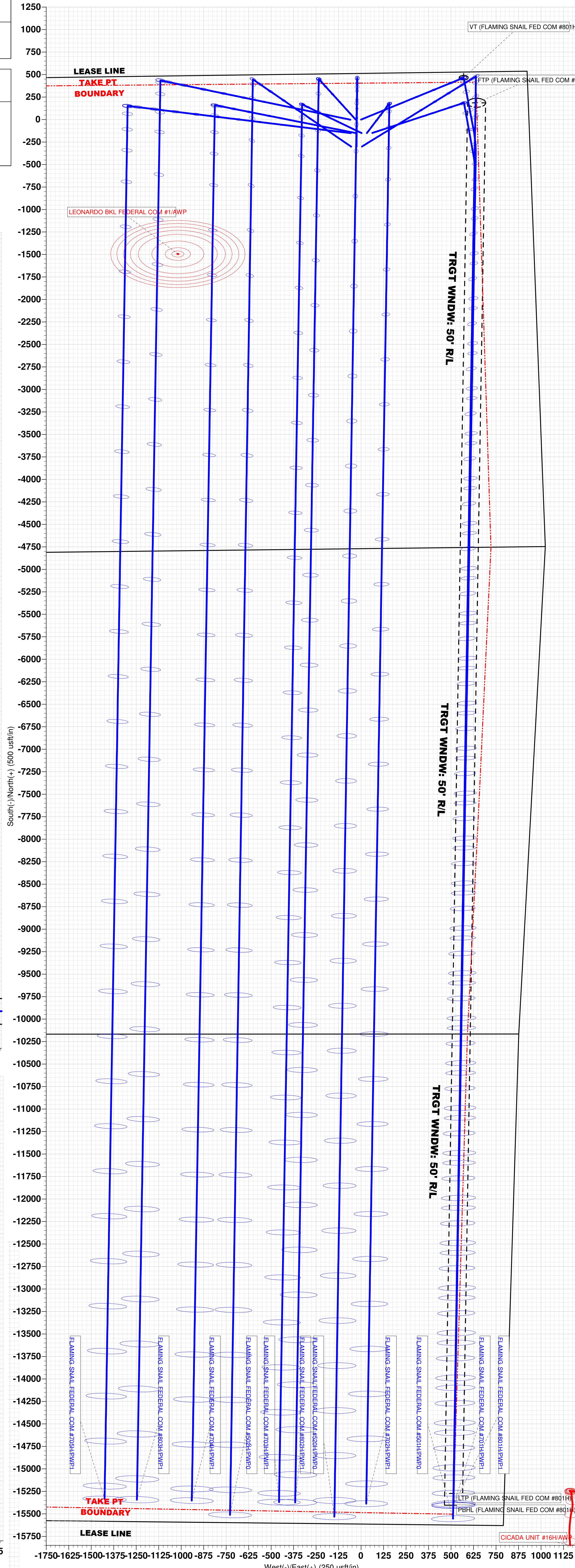
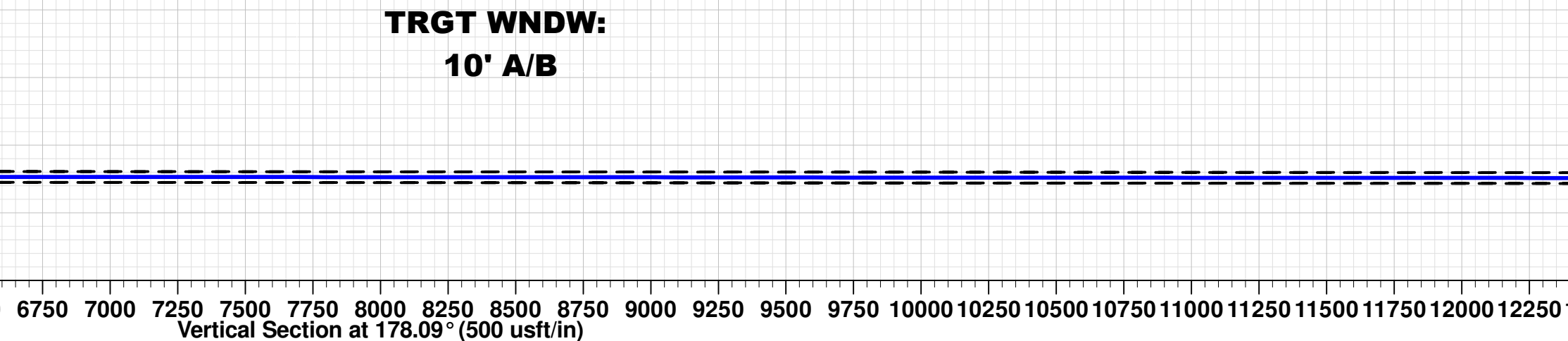
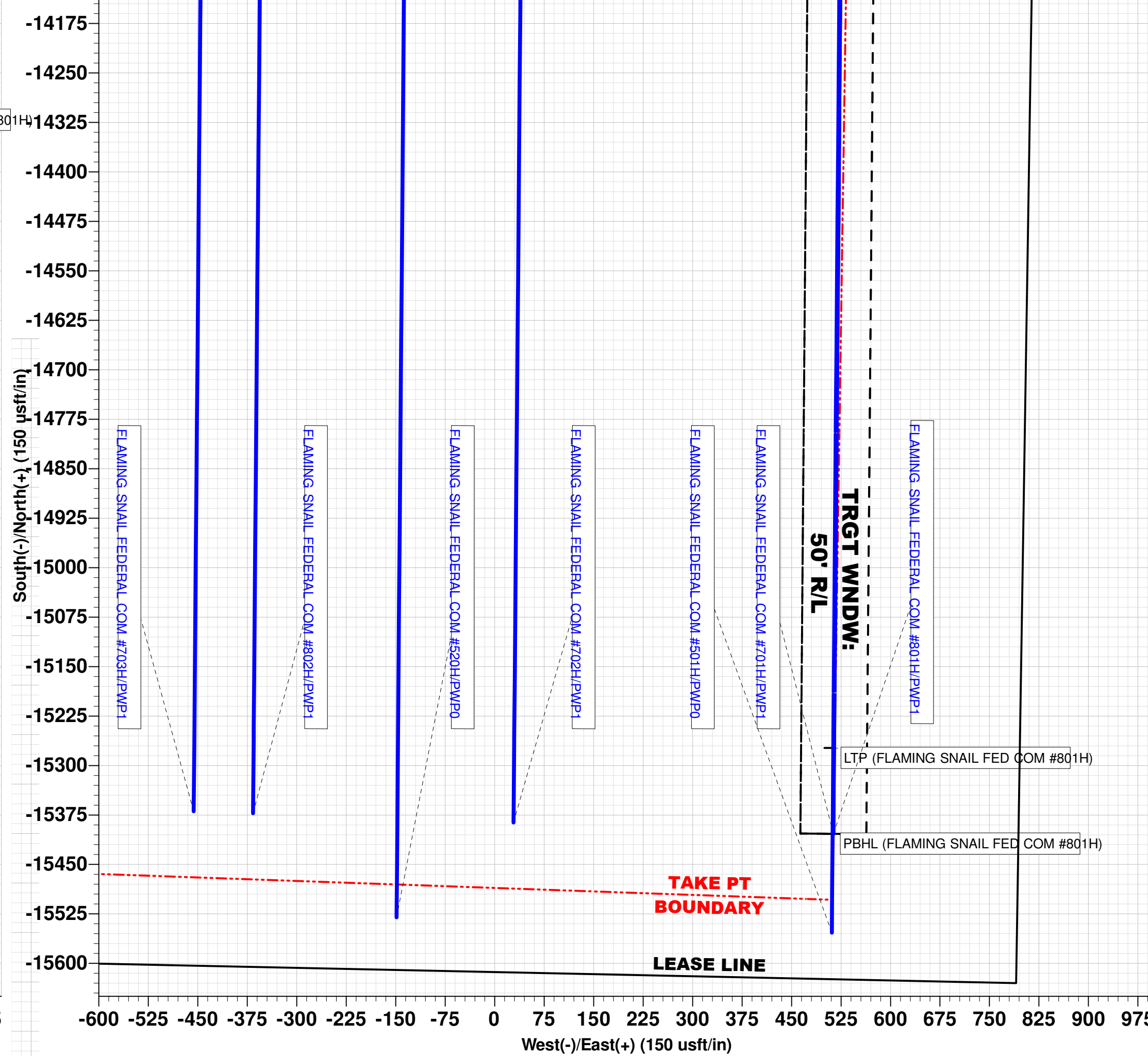
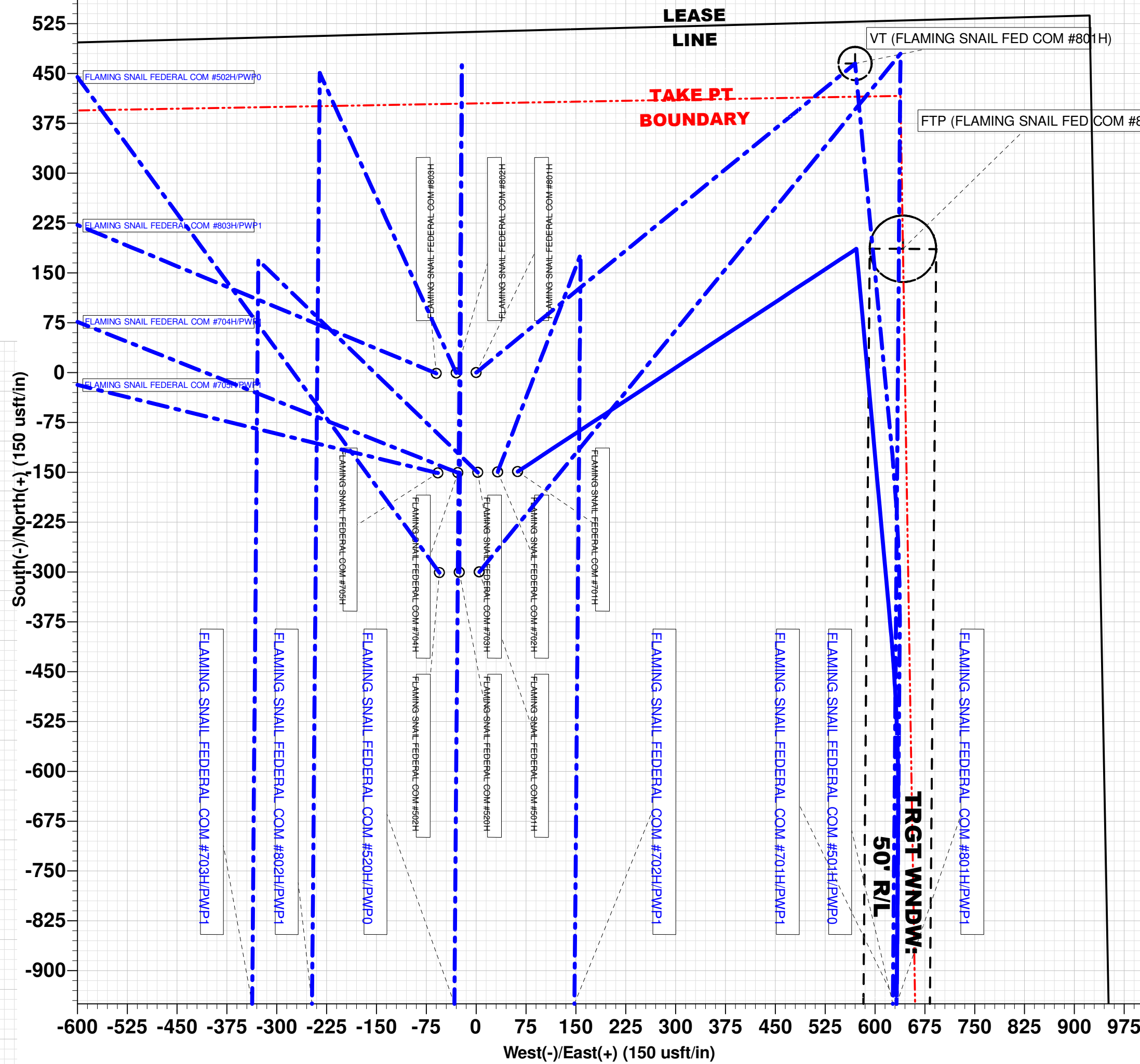
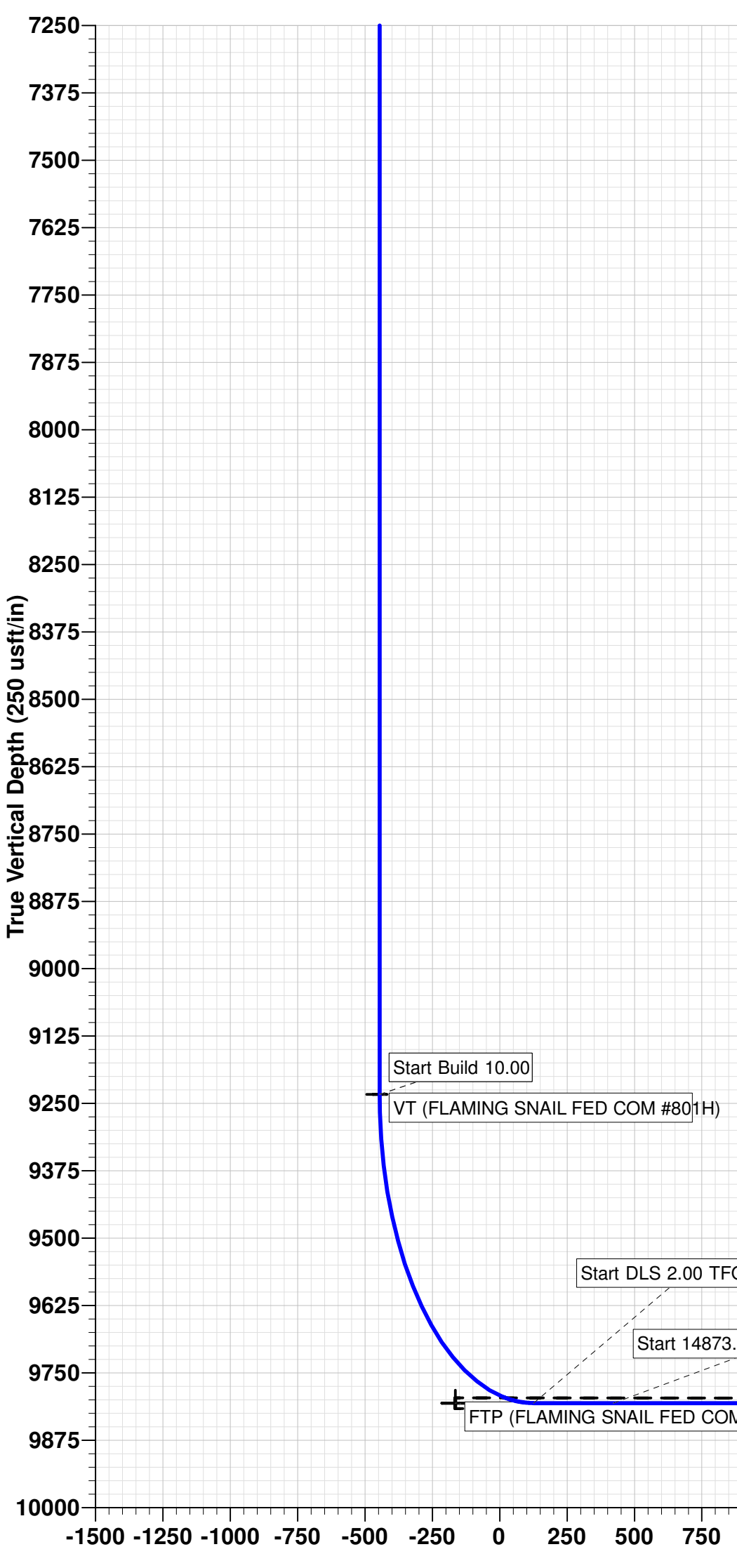


WELL DETAILS: FLAMING SNAIL FEDERAL COM #801H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402624.30	544652.40	32° 6' 24.654 N	104° 11' 20.844 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
VT (FLAMING SNAIL FED COM #801H)	9233.0	465.0	570.1	403089.33	545222.45
FTP (FLAMING SNAIL FED COM #801H)	9806.0	186.3	642.1	402810.60	545294.50
LTP (FLAMING SNAIL FED COM #801H)	9811.9	-15273.4	514.4	387350.90	545166.80
PBHL (FLAMING SNAIL FED COM #801H)	9812.0	-15403.5	513.4	387220.80	545165.80
Shape					
Circle (Radius: 25.0)					
Circle (Radius: 50.0)					
Point					
Rectangle (Sides: L15590.3 W100.0)					



PWP1									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00	
2200.0	14.00	50.79	2193.1	53.8	65.9	-51.6	85.1	Start 2337.3 hold at 2200.0 MD	
4537.3	14.00	50.79	4460.9	411.2	504.1	-394.2	650.6	Start Drop -2.00	
5237.3	0.00	0.00	5154.0	465.0	570.1	-445.8	735.7	Start 4079.0 hold at 5237.3 MD	
9316.4	0.00	0.00	9233.0	465.0	570.1	-445.8	735.7	Start Build 10.00	
10216.1	89.98	174.55	9806.0	-105.1	624.4	125.9	1308.4	Start DLS 2.00 TFO 90.01	
10512.3	89.98	180.47	9806.1	-400.9	637.3	421.9	1604.6	Start 14873.0 hold at 10512.3 MD	
25385.3	89.98	180.47	9811.9	-15273.4	514.4	15282.1	16477.6	Start 130.1 hold at 25385.3 MD	
25515.5	89.98	180.47	9812.0	-15403.5	513.3	15412.1	16607.7	TD at 25515.5	



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 801H 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 / 975 FEL / LAT 32.10697 / LONG -104.189618 At proposed prod. zone SESE / 200 FSL / 330 FEL / LAT 32.064623 / LONG -104.188026		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. 0 feet
19. Proposed Depth 9812 feet / 25515 feet		20. BLM/BIA Bond No. in file FED: NMB000215
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3125 feet		22. Approximate date work will start* 06/01/2024
23. Estimated duration 30 days		24. Attachments

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

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

25. Signature (Electronic Submission) Title Regulatory Advisor	Name (Printed/Typed) STAN WAGNER / Ph: (432) 683-7443	Date 10/04/2022
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 Office Carlsbad Field Office	Date 08/25/2023

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

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

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: NENE / 505 FNL / 975 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.10697 / LONG: -104.189618 (TVD: 0 feet, MD: 0 feet)
PPP: NENE / 330 FNL / 330 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107479 / LONG: -104.187543 (TVD: 9745 feet, MD: 9950 feet)
PPP: SESE / 1319 FSL / 330 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097491 / LONG: -104.187656 (TVD: 9807 feet, MD: 13811 feet)
PPP: SENE / 1321 FNL / 330 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.09014 / LONG: -104.187738 (TVD: 9808 feet, MD: 16451 feet)
PPP: NENE / 1 FNL / 330 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.078995 / LONG: -104.187864 (TVD: 9810 feet, MD: 20411 feet)
BHL: SESE / 200 FSL / 330 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064623 / LONG: -104.188026 (TVD: 9812 feet, MD: 25515 feet)

BLM Point of Contact

Name: GAVIN MICKWEE

Title: Land Law Examiner

Phone: (575) 234-5972

Email: gmickwee@blm.gov

CONFIDENTIAL

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 260972

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 260972
	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	9/8/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/8/2023
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	9/8/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/8/2023
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	9/8/2023