

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 702H 9. API Well No. 30-015-54151
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 / 655 FNL / 945 FEL / LAT 32.106558 / LONG -104.189514 At proposed prod. zone SESE / 200 FSL / 815 FEL / LAT 32.064672 / LONG -104.189591		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. 485 feet 19. Proposed Depth 24320 feet / 24320 feet 20. BLM/BIA Bond No. in file FED: NMB000215		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3129 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 10/07/2022
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959	Date 08/25/2023
Office Carlsbad Field Office		

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

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

(Continued on page 2)

*(Instructions on page 2)



Additional Operator Remarks

Location of Well

0. SHL: NENE / 655 FNL / 945 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106558 / LONG: -104.189514 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 330 FNL / 815 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107458 / LONG: -104.189109 (TVD: 8815 feet, MD: 8880 feet)

PPP: SESE / 1319 FSL / 815 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097465 / LONG: -104.189222 (TVD: 8983 feet, MD: 12511 feet)

PPP: SENE / 1321 FNL / 815 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.090121 / LONG: -104.189304 (TVD: 8984 feet, MD: 15151 feet)

PPP: NENE / 1 FNL / 815 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.071544 / LONG: -104.189513 (TVD: 8986 feet, MD: 19111 feet)

BHL: SESE / 200 FSL / 815 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064672 / LONG: -104.189591 (TVD: 24320 feet, MD: 24320 feet)

BLM Point of Contact

Name: GAVIN MICKWEE

Title: Land Law Examiner

Phone: (575) 234-5972

Email: gmickwee@blm.gov

CONFIDENTIAL

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

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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 54151	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 702H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3129.2'

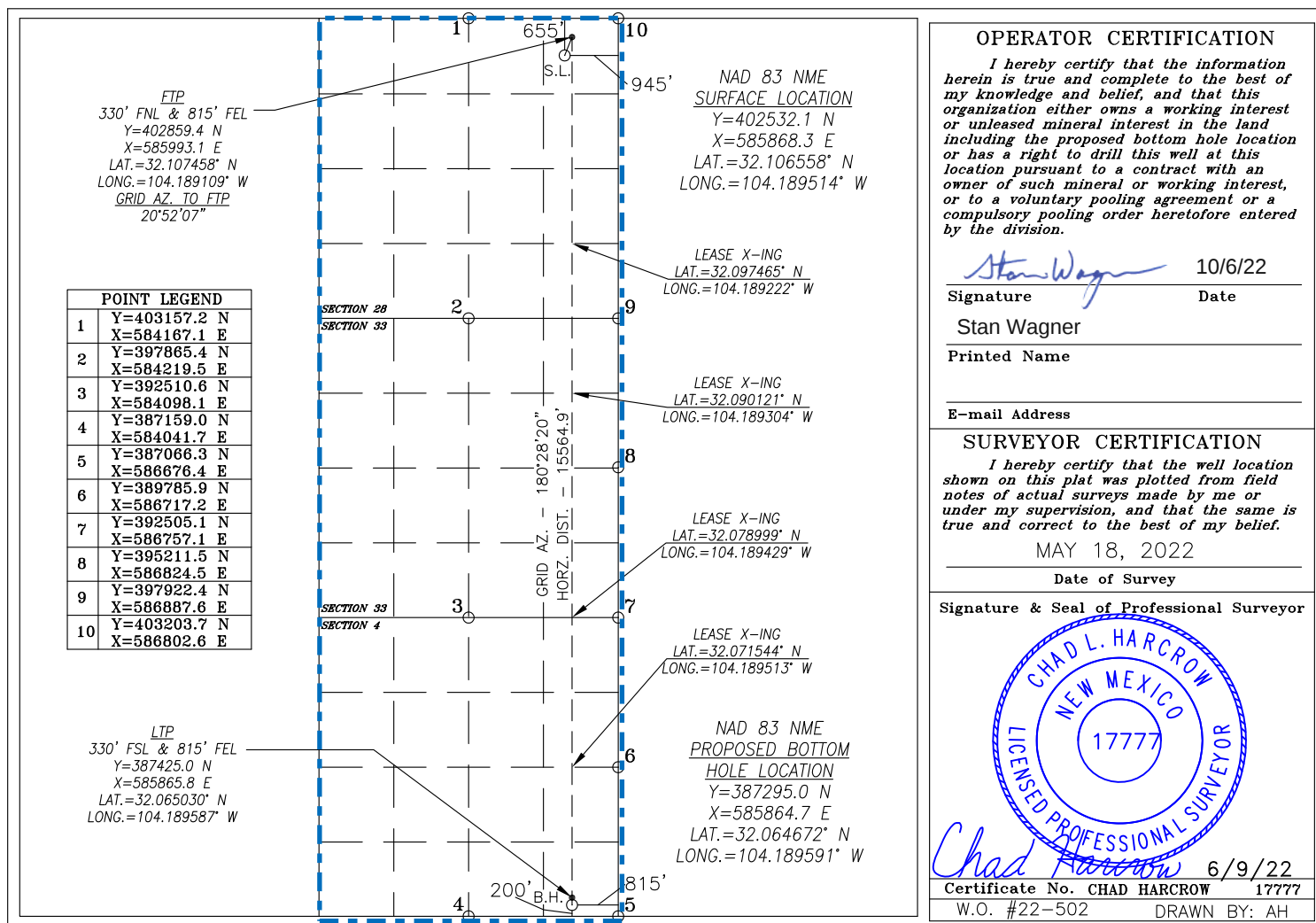
Surface Location

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		655	NORTH	945	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	815	EAST	EDDY
Dedicated Acres 1920	Joint or Infill Infill	Consolidation Code Com	Order No.						

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



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 10/06/2022

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 701H	30-015	A-28-25S-27E	655 FNL & 915 FEL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 702H	30-015-	A-28-25S-27E	655 FNL & 945 FEL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 703H	30-015-	A-28-25S-27E	655 FNL & 975 FEL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 704H	30-015-	A-28-25S-27E	655 FNL & 1005 FEL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 705H	30-015-	A-28-25S-27E	655 FNL & 1035 FEL	± 1600	± 6830	± 5650

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
701H, 702H, 703H, 704H, 705H						

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications

Effective May 25, 2021

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

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

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

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

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

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

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

Section 4 - Notices

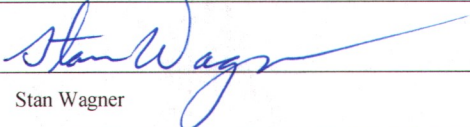
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

Signature:	
Printed Name:	Stan Wagner
Title:	Regulatory Advisor
E-mail Address:	stan.s.wagner@conocophillips.com
Date:	10/06/2022
Phone:	432-253-9685

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

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

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

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

COG Operating, LLC - Flaming Snail Federal Com 702H

1. Geologic Formations

TVD of target	8,989' EOL	Pilot hole depth	NA
MD at TD:	24,320'	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	521	Salt	
Base of Salt	1942	Salt	
Lamar	2175	Salt Water	
Bell Canyon	2223	Salt Water	
Cherry Canyon	3029	Oil/Gas	
Brushy Canyon	4142	Oil/Gas	
Bone Spring Lime	5723	Oil/Gas	
1st Bone Spring Sand	6663	Oil/Gas	
2nd Bone Spring Sand	7166	Oil/Gas	
3rd Bone Spring Sand	7689	Oil/Gas	
Wolfcamp	8824	Oil/Gas	
Wolfcamp A	8912	Target Oil/Gas	
0	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	500	10.75"	45.5	J55	BTC	9.13	1.77	31.43	34.99
9.875"	0	5500	7.625"	29.7	HCL80	BTC	2.42	1.39	4.18	4.41
8.750"	5500	8300	7.625"	29.7	HCP110	W513	1.72	1.91	3.81	2.26
6.75"	0	7800	5.5"	23	P110	TXP BTC	2.87	3.39	4.06	4.06
6.75"	7800	24,320	5.5"	23	P110	W441	2.49	2.94	3.53	3.20
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

COG Operating, LLC - Flaming Snail Federal Com 702H

	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 702H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	238	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	570	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	362	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1558	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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

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

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

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	7,800'	35% OH in Lateral (KOP to EOL)

COG Operating, LLC - Flaming Snail Federal Com 702H

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 702H

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 702H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5845 psi at 8989' TVD
Abnormal Temperature	NO 150 Deg. F.

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

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

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

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

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

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

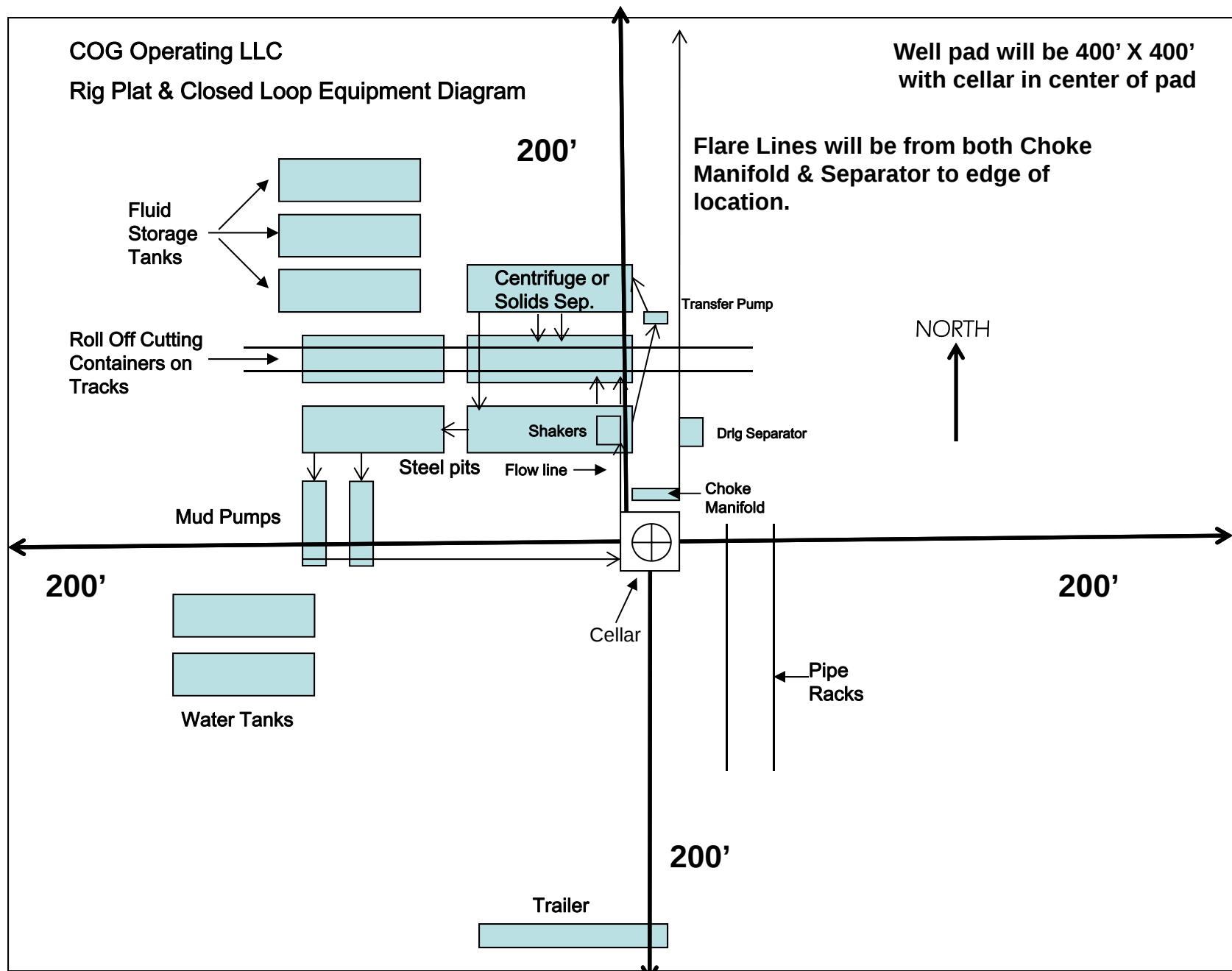


Exhibit 1

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #702H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	9/23/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp.-Initilzd Cont. rev.5
1,500.0	8,429.2	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
8,429.2	24,320.8	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						Out of range
CICADA UNIT #15H - OWB - AWP						Out of range
CICADA UNIT #16H - OWB - AWP	24,178.3	9,171.5	1,136.6	984.8	7.487	CC
CICADA UNIT #16H - OWB - AWP	24,190.8	9,171.5	1,136.7	984.8	7.483	ES
CICADA UNIT #16H - OWB - AWP	24,225.0	9,171.7	1,137.6	985.5	7.479	SF
CICADA UNIT #17H - OWB - AWP						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	1,500.0	1,499.7	153.0	144.8	18.555	CC
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	3,600.0	3,632.0	154.4	138.5	9.697	SF
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	3,629.7	3,661.4	154.4	138.5	9.712	ES
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	1,500.0	1,500.4	175.0	166.9	21.591	CC, ES
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	1,710.0	1,710.2	182.6	173.9	20.913	SF
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,500.0	1,500.0	161.6	153.4	19.743	CC
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	3,928.3	3,958.8	171.4	153.1	9.368	ES
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,320.8	23,634.4	1,037.1	789.5	4.188	SF
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,437.5	1,437.6	30.0	21.2	3.421	CC
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,520.0	1,519.9	30.0	21.1	3.364	ES
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	24,320.8	24,392.8	484.9	246.7	2.036	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,437.5	1,437.6	30.0	21.2	3.421	CC
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,500.0	1,500.0	30.0	21.1	3.379	ES
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,307.6	24,298.3	485.0	247.3	2.040	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,437.5	1,437.6	60.0	51.2	6.841	CC
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,500.0	1,500.0	60.0	51.1	6.758	ES
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,320.0	24,323.6	970.3	731.7	4.066	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,500.0	1,500.0	90.0	81.1	10.137	CC, ES
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,600.0	1,597.0	92.3	83.2	10.082	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 #801H - OWB - PWP1	2,063.6	2,045.1	139.1	127.5	11.972	CC
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	2,090.0	2,070.6	139.2	127.4	11.839	ES

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,320.8	25,502.0	958.5	712.6	3.897	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,519.1	1,513.9	161.4	152.0	17.146	CC
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,600.0	1,590.4	161.7	152.0	16.704	ES
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,320.8	25,408.3	900.8	654.0	3.650	SF
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,520.5	1,515.3	174.7	165.3	18.702	CC
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,600.0	1,590.9	174.9	165.3	18.300	ES
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,850.0	1,827.0	180.0	169.6	17.230	SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1						Out of range
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	10,437.5	8,957.3	1,161.9	880.7	4.132	CC, ES
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	10,450.0	8,957.5	1,162.0	880.8	4.132	SF
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW						Out of range

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #13H - OWB - AWP	24,320.8	9,216.5				Out of Range @TD
CICADA UNIT #14H - OWB - AWP	24,320.8	9,133.2				Out of Range @TD
CICADA UNIT #15H - OWB - AWP	24,320.8	9,173.5				Out of Range @TD
CICADA UNIT #16H - OWB - AWP	24,320.8	9,172.1	1,145.5	993.3	7.528	
CICADA UNIT #17H - OWB - AWP	24,320.8	9,127.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	24,320.8	23,317.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	24,320.8	23,245.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	24,320.8	23,212.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,320.8	23,634.4	1,037.1	789.5	4.188	SF
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	24,320.8	24,392.8	484.9	246.7	2.036	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,320.8	24,298.5	485.2	247.4	2.041	
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,320.8	24,323.6	970.3	731.7	4.066	
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,320.8	24,345.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,320.8	24,278.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,320.8	24,197.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,320.8	24,170.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,320.8	25,502.0	958.5	712.6	3.897	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,320.8	25,408.3	900.8	654.0	3.650	SF
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,320.8	25,430.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,320.8	25,359.2				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	24,320.8	8,963.5				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	24,320.8	7,054.0				Out of Range @TD

Offset Design: FLAMING SNAIL FED COM PROJECT - CICADA UNIT #16H - OWB - AWP													Offset Site Error: 0.0 usft		
Survey Program: 185-MWD														Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis			Offset Wellbore Centre			Rule Assigned:					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance				Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)		Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
23,560.0	8,988.6	9,168.9	9,126.2	113.0	36.8	-89.92	-15,103.8	1,134.0		1,293.9	1,159.1	134.84	9.596		
23,600.0	8,988.7	9,169.1	9,126.4	113.3	36.8	-89.93	-15,103.8	1,134.0		1,275.3	1,138.9	136.39	9.350		
23,655.0	8,988.7	9,169.3	9,126.6	113.7	36.8	-89.94	-15,103.8	1,134.0		1,251.3	1,112.8	138.47	9.036		
23,700.0	8,988.7	9,169.5	9,126.8	114.1	36.8	-89.95	-15,103.8	1,134.0		1,233.1	1,093.0	140.13	8.800		
23,750.0	8,988.7	9,169.7	9,127.0	114.5	36.8	-89.96	-15,103.8	1,134.0		1,214.6	1,072.7	141.91	8.559		
23,800.0	8,988.8	9,169.9	9,127.2	114.8	36.8	-89.98	-15,103.8	1,134.0		1,197.9	1,054.3	143.59	8.342		
23,845.0	8,988.8	9,170.1	9,127.4	115.2	36.8	-89.98	-15,103.8	1,134.0		1,184.5	1,039.4	145.02	8.167		
23,900.0	8,988.8	9,170.3	9,127.7	115.6	36.8	-90.00	-15,103.8	1,134.0		1,170.2	1,023.5	146.64	7.980		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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 Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
23,940.0	8,988.8	9,170.5	9,127.8	115.9	36.8	-90.00	-15,103.8	1,134.0	1,161.3	1,013.6	147.70	7.863	
24,000.0	8,988.8	9,170.8	9,128.1	116.4	36.8	-90.02	-15,103.8	1,134.0	1,150.5	1,001.4	149.12	7.715	
24,035.0	8,988.9	9,170.9	9,128.2	116.6	36.8	-90.02	-15,103.8	1,134.0	1,145.6	995.8	149.83	7.646	
24,100.0	8,988.9	9,171.2	9,128.5	117.1	36.8	-90.04	-15,103.8	1,134.0	1,139.3	988.4	150.92	7.549	
24,130.0	8,988.9	9,171.3	9,128.6	117.3	36.8	-90.04	-15,103.8	1,134.0	1,137.6	986.3	151.31	7.518	
24,178.3	8,988.9	9,171.5	9,128.8	117.7	36.8	-90.06	-15,103.8	1,134.0	1,136.6	984.8	151.80	7.487 CC	
24,190.8	8,988.9	9,171.5	9,128.9	117.8	36.8	-90.06	-15,103.8	1,134.0	1,136.7	984.8	151.90	7.483 ES	
24,200.0	8,988.9	9,171.6	9,128.9	117.9	36.8	-90.06	-15,103.8	1,134.0	1,136.8	984.8	151.96	7.481	
24,225.0	8,989.0	9,171.7	9,129.0	118.1	36.8	-90.06	-15,103.8	1,134.0	1,137.6	985.5	152.10	7.479 SF	
24,300.0	8,989.0	9,172.0	9,129.3	118.6	36.8	-90.08	-15,103.8	1,134.0	1,143.1	990.9	152.21	7.510	
24,320.0	8,989.0	9,172.1	9,129.4	118.8	36.8	-90.08	-15,103.8	1,134.0	1,145.4	993.2	152.16	7.528	
24,320.8	8,989.0	9,172.1	9,129.4	118.8	36.8	-90.08	-15,103.8	1,134.0	1,145.5	993.3	152.16	7.528	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-169.61	-150.5	-27.6	153.0					
95.0	95.0	94.7	94.7	3.0	3.0	-169.61	-150.5	-27.6	153.0	147.0	6.02	25.425		
100.0	100.0	99.7	99.7	3.0	3.0	-169.61	-150.5	-27.6	153.0	147.0	6.02	25.413		
190.0	190.0	189.7	189.7	3.1	3.0	-169.61	-150.5	-27.6	153.0	146.9	6.13	24.947		
200.0	200.0	199.7	199.7	3.1	3.0	-169.61	-150.5	-27.6	153.0	146.9	6.15	24.873		
285.0	285.0	284.7	284.7	3.3	3.0	-169.61	-150.5	-27.6	153.0	146.7	6.26	24.427		
300.0	300.0	299.7	299.7	3.3	3.0	-169.61	-150.5	-27.6	153.0	146.7	6.29	24.338		
380.0	380.0	379.7	379.7	3.4	3.0	-169.61	-150.5	-27.6	153.0	146.6	6.40	23.920		
400.0	400.0	399.7	399.7	3.4	3.0	-169.61	-150.5	-27.6	153.0	146.6	6.43	23.809		
475.0	475.0	474.7	474.7	3.5	3.0	-169.61	-150.5	-27.6	153.0	146.5	6.53	23.421		
500.0	500.0	499.7	499.7	3.5	3.1	-169.61	-150.5	-27.6	153.0	146.4	6.57	23.286		
570.0	570.0	569.7	569.7	3.6	3.1	-169.61	-150.5	-27.6	153.0	146.3	6.67	22.928		
600.0	600.0	599.7	599.7	3.6	3.1	-169.61	-150.5	-27.6	153.0	146.3	6.72	22.770		
665.0	665.0	664.7	664.7	3.7	3.1	-169.61	-150.5	-27.6	153.0	146.2	6.82	22.442		
700.0	700.0	699.7	699.7	3.8	3.1	-169.61	-150.5	-27.6	153.0	146.1	6.87	22.262		
760.0	760.0	759.7	759.7	3.8	3.1	-169.61	-150.5	-27.6	153.0	146.0	6.97	21.964		
800.0	800.0	799.7	799.7	3.9	3.2	-169.61	-150.5	-27.6	153.0	146.0	7.03	21.763		
855.0	855.0	854.7	854.7	4.0	3.2	-169.61	-150.5	-27.6	153.0	145.9	7.12	21.494		
900.0	900.0	899.7	899.7	4.0	3.2	-169.61	-150.5	-27.6	153.0	145.8	7.19	21.273		
950.0	950.0	949.7	949.7	4.1	3.2	-169.61	-150.5	-27.6	153.0	145.7	7.27	21.033		
1,000.0	1,000.0	999.7	999.7	4.1	3.2	-169.61	-150.5	-27.6	153.0	145.7	7.36	20.792		
1,045.0	1,045.0	1,044.7	1,044.7	4.2	3.3	-169.61	-150.5	-27.6	153.0	145.6	7.43	20.581		
1,100.0	1,100.0	1,099.7	1,099.7	4.2	3.3	-169.61	-150.5	-27.6	153.0	145.5	7.53	20.322		
1,140.0	1,140.0	1,139.7	1,139.7	4.3	3.3	-169.61	-150.5	-27.6	153.0	145.4	7.60	20.139		
1,200.0	1,200.0	1,199.7	1,199.7	4.4	3.4	-169.61	-150.5	-27.6	153.0	145.3	7.70	19.863		
1,235.0	1,235.0	1,234.7	1,234.7	4.4	3.4	-169.61	-150.5	-27.6	153.0	145.2	7.76	19.706		
1,300.0	1,300.0	1,299.7	1,299.7	4.5	3.4	-169.61	-150.5	-27.6	153.0	145.1	7.88	19.416		
1,330.0	1,330.0	1,329.7	1,329.7	4.5	3.4	-169.61	-150.5	-27.6	153.0	145.1	7.93	19.284		
1,400.0	1,400.0	1,399.7	1,399.7	4.6	3.5	-169.61	-150.5	-27.6	153.0	144.9	8.06	18.980		
1,425.0	1,425.0	1,424.7	1,424.7	4.6	3.5	-169.61	-150.5	-27.6	153.0	144.9	8.11	18.873		
1,500.0	1,500.0	1,499.7	1,499.7	4.7	3.5	-169.61	-150.5	-27.6	153.0	144.8	8.25	18.555 CC		
1,520.0	1,520.0	1,519.7	1,519.7	4.8	3.6	169.52	-150.5	-27.6	153.1	144.8	8.30	18.449		
1,600.0	1,600.0	1,599.7	1,599.7	4.9	3.6	169.63	-150.5	-27.6	154.7	146.2	8.51	18.173		
1,615.0	1,615.0	1,614.7	1,614.7	5.0	3.6	169.66	-150.5	-27.6	155.3	146.7	8.56	18.133		
1,700.0	1,699.8	1,699.5	1,699.5	5.2	3.7	169.95	-150.5	-27.6	159.9	151.0	8.85	18.067		
1,710.0	1,709.8	1,709.5	1,709.5	5.2	3.7	169.99	-150.5	-27.6	160.6	151.7	8.88	18.076		
1,800.0	1,799.5	1,799.2	1,799.2	5.4	3.8	170.43	-150.5	-27.6	168.5	159.3	9.20	18.309		
1,805.0	1,804.4	1,804.1	1,804.1	5.5	3.8	170.46	-150.5	-27.6	169.0	159.8	9.21	18.344		
1,850.0	1,849.1	1,848.8	1,848.8	5.5	3.8	170.73	-150.5	-27.6	174.0	164.7	9.31	18.694		
1,900.0	1,898.8	1,898.5	1,898.5	5.6	3.9	171.04	-150.5	-27.6	180.1	170.6	9.42	19.116		
1,995.0	1,993.0	1,992.7	1,992.7	5.8	3.9	171.58	-150.5	-27.6	191.5	181.8	9.72	19.710		
2,000.0	1,998.0	1,997.7	1,997.7	5.8	3.9	171.60	-150.5	-27.6	192.1	182.4	9.73	19.740		
2,090.0	2,087.3	2,092.9	2,092.9	6.1	4.1	171.90	-149.3	-26.6	201.7	191.5	10.16	19.845		
2,100.0	2,097.3	2,103.6	2,103.6	6.1	4.2	171.90	-149.0	-26.4	202.6	192.4	10.22	19.830		
2,185.0	2,181.6	2,194.2	2,194.0	6.3	4.4	171.76	-145.4	-23.5	208.9	198.2	10.70	19.525		
2,200.0	2,196.5	2,210.2	2,210.0	6.4	4.4	171.70	-144.5	-22.7	209.8	199.0	10.79	19.449		
2,280.0	2,275.9	2,295.7	2,295.2	6.6	4.7	171.19	-138.7	-18.0	213.1	201.9	11.26	18.934		
2,300.0	2,295.8	2,317.1	2,316.5	6.6	4.8	171.02	-136.9	-16.5	213.7	202.3	11.38	18.781		
2,375.0	2,370.2	2,397.4	2,396.1	6.9	5.0	170.21	-129.1	-10.2	214.4	202.6	11.83	18.127		
2,400.0	2,395.0	2,424.1	2,422.6	6.9	5.1	169.88	-126.2	-7.8	214.2	202.3	11.98	17.886		
2,470.0	2,464.5	2,498.9	2,496.4	7.2	5.4	168.78	-116.9	-0.3	212.8	200.4	12.41	17.150		

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 #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
2,500.0	2,494.3	2,530.9	2,527.9	7.3	5.5	168.22	-112.4	3.3	211.7	199.1	12.59	16.815
2,565.0	2,558.8	2,600.0	2,595.6	7.5	5.8	166.82	-101.9	11.9	208.4	195.4	12.98	16.052
2,600.0	2,593.5	2,637.1	2,631.9	7.6	5.9	165.95	-95.7	16.9	206.1	192.9	13.19	15.626
2,660.0	2,653.1	2,700.4	2,693.5	7.8	6.1	164.25	-84.4	26.1	201.4	187.9	13.54	14.879
2,700.0	2,692.8	2,740.1	2,731.9	7.9	6.3	163.07	-76.9	32.2	198.0	184.3	13.75	14.403
2,755.0	2,747.4	2,794.6	2,784.8	8.1	6.5	161.38	-66.7	40.5	193.5	179.5	14.03	13.790
2,800.0	2,792.1	2,839.2	2,828.1	8.3	6.6	159.94	-58.3	47.3	189.9	175.7	14.26	13.321
2,850.0	2,841.7	2,888.7	2,876.2	8.4	6.8	158.27	-49.0	54.9	186.1	171.6	14.50	12.837
2,900.0	2,891.3	2,938.3	2,924.2	8.6	7.0	156.54	-39.7	62.4	182.5	167.8	14.73	12.389
2,945.0	2,936.0	2,982.9	2,967.5	8.8	7.1	154.93	-31.3	69.2	179.4	164.4	14.93	12.017
3,000.0	2,990.6	3,037.4	3,020.4	9.0	7.3	152.88	-21.1	77.5	175.7	160.6	15.15	11.602
3,040.0	3,030.3	3,077.0	3,058.9	9.1	7.5	151.33	-13.7	83.6	173.3	158.0	15.30	11.327
3,100.0	3,089.8	3,136.5	3,116.6	9.3	7.7	148.94	-2.5	92.7	169.8	154.3	15.49	10.957
3,135.0	3,124.6	3,171.2	3,150.2	9.4	7.8	147.50	4.0	97.9	167.9	152.3	15.60	10.764
3,200.0	3,189.1	3,235.6	3,212.7	9.7	8.1	144.74	16.1	107.8	164.7	148.9	15.76	10.450
3,230.0	3,218.8	3,265.3	3,241.6	9.8	8.2	143.44	21.7	112.3	163.3	147.5	15.82	10.324
3,300.0	3,288.3	3,334.7	3,308.9	10.0	8.5	140.31	34.7	122.9	160.5	144.6	15.93	10.077
3,325.0	3,313.1	3,359.5	3,332.9	10.1	8.6	139.16	39.4	126.7	159.6	143.7	15.96	10.004
3,400.0	3,387.6	3,433.8	3,405.0	10.4	8.9	135.67	53.3	138.0	157.4	141.4	16.01	9.833
3,420.0	3,407.4	3,453.6	3,424.3	10.5	9.0	134.72	57.1	141.0	156.9	140.9	16.01	9.799
3,500.0	3,486.8	3,532.9	3,501.2	10.8	9.3	130.88	72.0	153.1	155.3	139.3	16.00	9.710
3,515.0	3,501.7	3,547.8	3,515.6	10.9	9.4	130.15	74.8	155.4	155.1	139.1	15.99	9.702
3,600.0	3,586.1	3,632.0	3,597.4	11.2	9.8	126.00	90.6	168.3	154.4	138.5	15.92	9.697 SF
3,610.0	3,596.0	3,641.9	3,607.0	11.2	9.8	125.51	92.4	169.8	154.4	138.5	15.91	9.701
3,629.7	3,615.6	3,661.4	3,625.9	11.3	9.9	124.54	96.1	172.7	154.4	138.5	15.89	9.712 ES
3,700.0	3,685.3	3,731.1	3,693.5	11.6	10.2	121.09	109.2	183.4	154.7	138.8	15.82	9.777
3,705.0	3,690.3	3,736.1	3,698.3	11.6	10.2	120.85	110.1	184.1	154.7	138.9	15.81	9.783
3,800.0	3,784.6	3,830.2	3,789.7	11.9	10.6	116.24	127.8	198.5	156.0	140.3	15.72	9.929
3,895.0	3,878.9	3,924.4	3,881.0	12.3	11.0	111.74	145.5	212.9	158.4	142.7	15.66	10.113
3,900.0	3,883.9	3,929.3	3,885.9	12.3	11.1	111.50	146.4	213.6	158.5	142.9	15.66	10.124
3,990.0	3,973.2	4,018.5	3,972.4	12.7	11.5	107.39	163.2	227.2	161.7	146.0	15.68	10.313
4,000.0	3,983.1	4,028.4	3,982.0	12.7	11.5	106.94	165.0	228.7	162.1	146.4	15.68	10.334
4,085.0	4,067.5	4,112.7	4,063.8	13.0	11.9	103.24	180.8	241.6	165.9	150.1	15.79	10.506
4,100.0	4,082.4	4,127.5	4,078.2	13.1	12.0	102.60	183.6	243.9	166.6	150.8	15.82	10.534
4,180.0	4,161.8	4,206.8	4,155.1	13.4	12.3	99.30	198.5	256.0	170.9	154.9	16.01	10.676
4,198.2	4,179.8	4,224.8	4,172.6	13.5	12.4	98.58	201.9	258.7	172.0	155.9	16.07	10.705
4,200.0	4,181.6	4,226.6	4,174.3	13.5	12.4	98.51	202.2	259.0	172.1	156.0	16.07	10.709
4,275.0	4,256.1	4,300.9	4,246.4	13.8	12.7	95.50	216.2	270.3	176.7	160.4	16.34	10.811
4,300.0	4,281.0	4,325.6	4,270.4	13.9	12.9	94.46	220.8	274.1	178.3	161.9	16.46	10.837
4,370.0	4,350.6	4,394.8	4,337.5	14.2	13.2	91.49	233.8	284.6	183.2	166.4	16.82	10.891
4,400.0	4,380.5	4,424.4	4,366.2	14.3	13.3	90.19	239.4	289.2	185.4	168.4	17.00	10.904
4,465.0	4,445.3	4,488.5	4,428.4	14.5	13.6	87.33	251.4	298.9	190.6	173.1	17.46	10.915
4,500.0	4,480.2	4,523.0	4,461.8	14.6	13.8	85.77	257.9	304.2	193.6	175.9	17.75	10.910
4,560.0	4,540.1	4,581.9	4,519.1	14.8	14.0	83.08	269.0	313.2	199.2	180.9	18.29	10.890
4,600.0	4,580.0	4,621.2	4,557.2	15.0	14.2	81.28	276.3	319.2	203.2	184.5	18.69	10.869
4,655.0	4,635.0	4,675.1	4,609.5	15.1	14.5	78.81	286.5	327.4	209.1	189.8	19.30	10.836
4,700.0	4,679.9	4,719.1	4,652.2	15.3	14.7	76.80	294.7	334.1	214.3	194.5	19.83	10.808
4,750.0	4,729.9	4,768.0	4,699.6	15.4	14.9	74.58	303.9	341.6	220.6	200.1	20.46	10.781
4,800.0	4,779.9	4,816.7	4,746.9	15.6	15.1	72.40	313.0	349.0	227.3	206.2	21.12	10.760
4,845.0	4,824.9	4,860.5	4,789.4	15.7	15.3	70.46	321.3	355.7	233.7	212.0	21.73	10.756
4,898.1	4,878.0	4,912.1	4,839.4	15.7	15.6	69.10	331.0	363.6	241.8	219.4	22.47	10.765

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.0	4,879.9	4,913.9	4,841.2	15.7	15.6	89.02	331.3	363.8	242.1	219.7	22.49	10.766		
4,940.0	4,919.9	4,952.7	4,878.9	15.8	15.8	87.34	338.6	369.8	248.6	225.6	23.04	10.791		
5,000.0	4,979.9	5,011.0	4,935.4	15.8	16.0	84.97	349.5	378.6	258.6	234.8	23.84	10.851		
5,035.0	5,014.9	5,044.9	4,968.3	15.8	16.2	83.68	355.9	383.8	264.7	240.4	24.29	10.897		
5,100.0	5,079.9	5,108.0	5,029.5	15.9	16.5	81.42	367.7	393.5	276.3	251.2	25.11	11.003		
5,130.0	5,109.9	5,137.1	5,057.7	15.9	16.6	80.44	373.2	397.9	281.8	256.3	25.48	11.060		
5,200.0	5,179.9	5,205.0	5,123.6	15.9	17.0	78.29	386.0	408.3	294.8	268.5	26.30	11.209		
5,225.0	5,204.9	5,229.3	5,147.2	15.9	17.1	77.56	390.5	412.0	299.6	273.0	26.59	11.268		
5,300.0	5,279.9	5,302.1	5,217.8	16.0	17.4	75.53	404.2	423.1	314.2	286.8	27.42	11.458		
5,320.0	5,299.9	5,321.5	5,236.6	16.0	17.5	75.01	407.8	426.0	318.1	290.5	27.63	11.512		
5,400.0	5,379.9	5,399.1	5,311.9	16.0	17.9	73.08	422.4	437.9	334.1	305.7	28.47	11.739		
5,415.0	5,394.9	5,413.6	5,326.1	16.0	17.9	72.74	425.1	440.1	337.2	308.6	28.62	11.783		
5,500.0	5,479.9	5,496.1	5,406.1	16.1	18.3	70.92	440.6	452.7	354.6	325.2	29.45	12.042		
5,510.0	5,489.9	5,505.8	5,415.5	16.1	18.4	70.71	442.5	454.1	356.7	327.2	29.54	12.074		
5,600.0	5,579.9	5,593.1	5,500.2	16.2	18.8	68.98	458.9	467.5	375.6	345.2	30.38	12.363		
5,605.0	5,584.9	5,598.0	5,504.9	16.2	18.8	68.89	459.8	468.2	376.6	346.2	30.42	12.379		
5,700.0	5,679.9	5,690.2	5,594.4	16.2	19.3	67.25	477.1	482.3	396.9	365.6	31.26	12.695		
5,795.0	5,774.9	5,782.3	5,683.8	16.3	19.7	65.77	494.4	496.3	417.4	385.3	32.06	13.018		
5,800.0	5,779.9	5,787.2	5,688.5	16.3	19.7	65.70	495.3	497.1	418.5	386.4	32.11	13.035		
5,890.0	5,869.9	5,874.5	5,773.2	16.3	20.1	64.43	511.7	510.4	438.2	405.4	32.83	13.345		
5,900.0	5,879.9	5,884.2	5,782.7	16.3	20.2	64.30	513.5	511.9	440.4	407.5	32.91	13.380		
5,985.0	5,964.9	5,966.7	5,862.7	16.4	20.6	63.21	529.0	524.5	459.2	425.6	33.58	13.674		
6,000.0	5,979.9	5,981.3	5,876.8	16.4	20.7	63.03	531.7	526.7	462.5	428.8	33.69	13.726		
6,080.0	6,059.9	6,058.9	5,952.1	16.5	21.0	62.09	546.3	538.5	480.3	446.0	34.30	14.004		
6,100.0	6,079.9	6,078.3	5,971.0	16.5	21.1	61.87	550.0	541.5	484.8	450.4	34.45	14.073		
6,175.0	6,154.9	6,151.4	6,041.9	16.5	21.5	61.07	563.7	552.6	501.7	466.7	34.99	14.336		
6,200.0	6,179.9	6,180.5	6,070.1	16.5	21.6	60.77	569.0	557.0	507.2	472.0	35.20	14.407		
6,270.0	6,249.9	6,262.6	6,150.3	16.6	22.0	60.03	582.9	568.2	521.4	485.6	35.78	14.573		
6,300.0	6,279.9	6,298.1	6,185.1	16.6	22.2	59.76	588.3	572.7	527.0	490.9	36.02	14.631		
6,365.0	6,344.9	6,375.5	6,261.3	16.6	22.5	59.23	599.0	581.3	537.8	501.3	36.49	14.738		
6,400.0	6,379.9	6,417.6	6,302.8	16.7	22.7	58.99	604.1	585.5	543.0	506.3	36.73	14.784		
6,460.0	6,439.9	6,490.0	6,374.6	16.7	23.1	58.63	611.9	591.8	550.8	513.7	37.10	14.844		
6,500.0	6,479.9	6,538.6	6,422.8	16.7	23.3	58.44	616.3	595.4	555.2	517.9	37.33	14.873		
6,555.0	6,534.9	6,605.7	6,489.6	16.7	23.5	58.22	621.3	599.5	560.2	522.6	37.61	14.895		
6,600.0	6,579.9	6,660.8	6,544.5	16.8	23.8	58.08	624.5	602.1	563.4	525.6	37.81	14.903		
6,650.0	6,629.9	6,722.2	6,605.8	16.8	24.0	57.97	627.2	604.2	566.0	528.0	37.99	14.898		
6,700.0	6,679.9	6,783.6	6,667.3	16.8	24.2	57.90	628.8	605.5	567.6	529.5	38.14	14.883		
6,745.0	6,724.9	6,839.0	6,722.6	16.9	24.3	57.87	629.3	606.0	568.2	530.0	38.18	14.881		
6,800.0	6,779.9	6,896.0	6,779.6	16.9	24.3	57.87	629.4	606.0	568.2	530.0	38.23	14.864		
6,840.0	6,819.9	6,936.0	6,819.6	16.9	24.3	57.87	629.4	606.0	568.2	529.9	38.27	14.847		
6,900.0	6,879.9	6,996.0	6,879.6	17.0	24.3	57.87	629.4	606.0	568.2	529.9	38.34	14.822		
6,935.0	6,914.9	7,031.0	6,914.6	17.0	24.4	57.87	629.4	606.0	568.2	529.8	38.37	14.807		
7,000.0	6,979.9	7,096.0	6,979.6	17.0	24.4	57.87	629.4	606.0	568.2	529.8	38.45	14.779		
7,030.0	7,009.9	7,128.9	7,012.5	17.0	24.4	57.88	629.3	606.0	568.2	529.8	38.44	14.781		
7,100.0	7,079.9	7,275.4	7,157.3	17.1	24.5	59.61	609.3	605.8	563.0	525.8	37.20	15.134		
7,125.0	7,104.9	7,324.1	7,203.7	17.1	24.5	60.93	594.6	605.7	559.1	522.5	36.60	15.277		
7,200.0	7,179.9	7,452.2	7,318.0	17.2	24.6	66.35	537.6	605.3	542.5	507.8	34.68	15.643		
7,220.0	7,199.9	7,481.4	7,342.2	17.2	24.6	68.02	521.1	605.1	537.3	503.1	34.20	15.710		
7,300.0	7,279.9	7,579.3	7,416.3	17.2	24.7	74.82	457.4	604.6	515.6	483.1	32.56	15.837		
7,315.0	7,294.9	7,594.7	7,426.9	17.2	24.7	76.06	446.3	604.5	511.7	479.4	32.30	15.840		
7,400.0	7,379.9	7,667.2	7,472.8	17.3	24.8	82.52	390.2	604.1	492.3	461.2	31.15	15.806		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Rule Assigned:									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)	Warning
7,410.0	7,389.9	7,674.3	7,476.9	17.3	24.8	83.20	384.3	604.1	490.5	459.4	31.04	15.802
7,500.0	7,479.9	7,728.8	7,505.9	17.3	24.8	88.68	338.3	603.7	479.7	449.5	30.24	15.865
7,505.0	7,484.9	7,731.3	7,507.1	17.3	24.8	88.95	336.0	603.7	479.5	449.3	30.20	15.876
7,534.4	7,514.3	7,745.7	7,514.0	17.4	24.8	90.46	323.4	603.6	478.8	448.8	30.00	15.959
7,600.0	7,579.9	7,773.4	7,526.3	17.4	24.9	93.43	298.6	603.4	482.4	452.7	29.63	16.280
7,695.0	7,674.9	7,805.4	7,539.0	17.5	24.9	96.92	269.2	603.1	500.6	471.3	29.24	17.120
7,700.0	7,679.9	7,806.9	7,539.6	17.5	24.9	97.08	267.8	603.1	501.9	472.7	29.22	17.176
7,790.0	7,769.9	7,830.5	7,547.8	17.5	24.9	99.67	245.8	603.0	533.3	504.3	28.99	18.396
7,800.0	7,779.9	7,832.8	7,548.6	17.5	24.9	99.92	243.6	602.9	537.6	508.6	28.97	18.553
7,885.0	7,864.9	7,850.0	7,554.0	17.6	24.9	101.82	227.2	602.8	578.8	549.9	28.88	20.041
7,900.0	7,879.9	7,850.0	7,554.0	17.6	24.9	101.82	227.2	602.8	587.0	558.0	28.93	20.286
7,980.0	7,959.9	7,866.9	7,558.7	17.7	24.9	103.66	211.0	602.7	634.5	605.6	28.84	21.997
8,000.0	7,979.9	7,869.9	7,559.6	17.7	24.9	104.00	208.1	602.7	647.3	618.4	28.85	22.437
8,075.0	8,054.9	7,880.4	7,562.3	17.7	24.9	105.14	197.9	602.6	698.1	669.2	28.89	24.163
8,100.0	8,079.9	7,883.6	7,563.0	17.7	24.9	105.49	194.8	602.5	716.0	687.0	28.91	24.761
8,170.0	8,149.9	7,900.0	7,566.8	17.8	24.9	107.25	178.9	602.4	768.0	739.1	28.88	26.590
8,200.0	8,179.9	7,900.0	7,566.8	17.8	24.9	107.25	178.9	602.4	791.0	762.0	28.97	27.302
8,265.0	8,244.9	7,900.0	7,566.8	17.8	24.9	107.25	178.9	602.4	842.4	813.2	29.16	28.891
8,300.0	8,279.9	7,900.0	7,566.8	17.9	24.9	107.25	178.9	602.4	870.8	841.5	29.25	29.769
8,360.0	8,339.9	7,900.0	7,566.8	17.9	24.9	107.25	178.9	602.4	920.5	891.1	29.41	31.302
8,400.0	8,379.9	7,900.0	7,566.8	17.9	24.9	107.25	178.9	602.4	954.4	924.9	29.51	32.342
8,429.2	8,409.0	7,915.6	7,569.9	17.9	25.0	108.91	163.6	602.3	979.0	949.6	29.44	33.250
8,450.0	8,429.9	7,917.3	7,570.2	17.9	25.0	-68.14	162.0	602.3	996.9	967.4	29.48	33.811
8,455.0	8,434.9	7,917.7	7,570.3	18.0	25.0	-67.34	161.5	602.3	1,001.1	971.6	29.49	33.943
8,500.0	8,479.7	7,922.3	7,571.1	18.0	25.0	-60.34	157.0	602.2	1,039.5	1,009.9	29.61	35.103
8,550.0	8,529.0	7,928.6	7,572.2	18.1	25.0	-53.34	150.9	602.2	1,081.5	1,051.8	29.77	36.325
8,600.0	8,577.4	7,950.0	7,575.3	18.1	25.0	-46.45	129.6	602.0	1,123.0	1,093.1	29.87	37.599
8,645.0	8,619.8	7,950.0	7,575.3	18.2	25.0	-42.27	129.6	602.0	1,159.0	1,128.9	30.12	38.483
8,650.0	8,624.5	7,950.0	7,575.3	18.2	25.0	-41.84	129.6	602.0	1,162.9	1,132.8	30.15	38.577
8,700.0	8,669.9	7,950.0	7,575.3	18.3	25.0	-37.92	129.6	602.0	1,201.6	1,171.2	30.45	39.464
8,740.0	8,704.9	7,950.0	7,575.3	18.3	25.0	-35.22	129.6	602.0	1,231.6	1,200.9	30.71	40.107
8,750.0	8,713.4	7,950.0	7,575.3	18.3	25.0	-34.60	129.6	602.0	1,239.0	1,208.2	30.78	40.258
8,800.0	8,754.5	7,974.0	7,577.9	18.4	25.0	-31.21	105.8	601.8	1,274.1	1,243.2	30.98	41.123
8,835.0	8,781.8	7,981.8	7,578.5	18.5	25.0	-29.42	98.0	601.8	1,297.8	1,266.6	31.20	41.596
8,850.0	8,793.1	8,000.0	7,579.5	18.5	25.0	-28.44	79.8	601.6	1,307.8	1,276.6	31.21	41.903

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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:		Distance		Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.4	0.4	3.0	3.0	-150.01	-151.6	-87.5	175.0					
95.0	95.0	95.4	95.4	3.0	3.0	-150.01	-151.6	-87.5	175.0	169.0	6.02	29.086		
100.0	100.0	100.4	100.4	3.0	3.0	-150.01	-151.6	-87.5	175.0	169.0	6.02	29.072		
190.0	190.0	190.4	190.4	3.1	3.0	-150.01	-151.6	-87.5	175.0	168.9	6.13	28.545		
200.0	200.0	200.4	200.4	3.1	3.0	-150.01	-151.6	-87.5	175.0	168.9	6.15	28.461		
285.0	285.0	285.4	285.4	3.3	3.0	-150.01	-151.6	-87.5	175.0	168.8	6.26	27.962		
300.0	300.0	300.4	300.4	3.3	3.0	-150.01	-151.6	-87.5	175.0	168.8	6.28	27.863		
380.0	380.0	380.4	380.4	3.4	3.0	-150.01	-151.6	-87.5	175.0	168.7	6.39	27.400		
400.0	400.0	400.4	400.4	3.4	3.0	-150.01	-151.6	-87.5	175.0	168.6	6.42	27.276		
475.0	475.0	475.4	475.4	3.5	3.0	-150.01	-151.6	-87.5	175.0	168.5	6.52	26.850		
500.0	500.0	500.4	500.4	3.5	3.1	-150.01	-151.6	-87.5	175.0	168.5	6.56	26.702		
570.0	570.0	570.4	570.4	3.6	3.1	-150.01	-151.6	-87.5	175.0	168.4	6.65	26.311		
600.0	600.0	600.4	600.4	3.6	3.1	-150.01	-151.6	-87.5	175.0	168.3	6.70	26.138		
665.0	665.0	665.4	665.4	3.7	3.1	-150.01	-151.6	-87.5	175.0	168.3	6.79	25.782		
700.0	700.0	700.4	700.4	3.8	3.1	-150.01	-151.6	-87.5	175.0	168.2	6.84	25.586		
760.0	760.0	760.4	760.4	3.8	3.1	-150.01	-151.6	-87.5	175.0	168.1	6.93	25.264		
800.0	800.0	800.4	800.4	3.9	3.2	-150.01	-151.6	-87.5	175.0	168.1	6.99	25.046		
855.0	855.0	855.4	855.4	4.0	3.2	-150.01	-151.6	-87.5	175.0	168.0	7.07	24.756		
900.0	900.0	900.4	900.4	4.0	3.2	-150.01	-151.6	-87.5	175.0	167.9	7.14	24.517		
950.0	950.0	950.4	950.4	4.1	3.2	-150.01	-151.6	-87.5	175.0	167.8	7.22	24.259		
1,000.0	1,000.0	1,000.4	1,000.4	4.1	3.2	-150.01	-151.6	-87.5	175.0	167.7	7.29	23.999		
1,045.0	1,045.0	1,045.4	1,045.4	4.2	3.3	-150.01	-151.6	-87.5	175.0	167.7	7.36	23.772		
1,100.0	1,100.0	1,100.4	1,100.4	4.2	3.3	-150.01	-151.6	-87.5	175.0	167.6	7.45	23.494		
1,140.0	1,140.0	1,140.4	1,140.4	4.3	3.3	-150.01	-151.6	-87.5	175.0	167.5	7.51	23.296		
1,200.0	1,200.0	1,200.4	1,200.4	4.4	3.4	-150.01	-151.6	-87.5	175.0	167.4	7.61	23.000		
1,235.0	1,235.0	1,235.4	1,235.4	4.4	3.4	-150.01	-151.6	-87.5	175.0	167.4	7.67	22.831		
1,300.0	1,300.0	1,300.4	1,300.4	4.5	3.4	-150.01	-151.6	-87.5	175.0	167.3	7.77	22.518		
1,330.0	1,330.0	1,330.4	1,330.4	4.5	3.4	-150.01	-151.6	-87.5	175.0	167.2	7.82	22.377		
1,400.0	1,400.0	1,400.4	1,400.4	4.6	3.5	-150.01	-151.6	-87.5	175.0	167.1	7.94	22.049		
1,425.0	1,425.0	1,425.4	1,425.4	4.6	3.5	-150.01	-151.6	-87.5	175.0	167.1	7.98	21.934		
1,500.0	1,500.0	1,500.4	1,500.4	4.7	3.5	-150.01	-151.6	-87.5	175.0	166.9	8.11	21.591 CC, ES		
1,520.0	1,520.0	1,520.4	1,520.4	4.8	3.6	-170.89	-151.6	-87.5	175.1	167.0	8.15	21.478		
1,600.0	1,600.0	1,600.4	1,600.4	4.9	3.6	-170.97	-151.6	-87.5	176.8	168.4	8.37	21.130		
1,615.0	1,615.0	1,615.4	1,615.4	5.0	3.6	-171.00	-151.6	-87.5	177.3	168.9	8.41	21.074		
1,700.0	1,699.8	1,700.2	1,700.2	5.2	3.7	-171.21	-151.6	-87.5	181.9	173.2	8.70	20.915		
1,710.0	1,709.8	1,710.2	1,710.2	5.2	3.7	-171.24	-151.6	-87.5	182.6	173.9	8.73	20.913 SF		
1,800.0	1,799.5	1,799.9	1,799.9	5.4	3.8	-171.59	-151.6	-87.5	190.6	181.5	9.05	21.052		
1,805.0	1,804.4	1,804.8	1,804.8	5.5	3.8	-171.61	-151.6	-87.5	191.1	182.0	9.06	21.084		
1,850.0	1,849.1	1,849.5	1,849.5	5.5	3.8	-171.81	-151.6	-87.5	196.1	187.0	9.16	21.412		
1,900.0	1,898.8	1,899.2	1,899.2	5.6	3.9	-172.06	-151.6	-87.5	202.2	192.9	9.27	21.809		
1,995.0	1,993.0	1,993.4	1,993.4	5.8	3.9	-172.49	-151.6	-87.5	213.7	204.1	9.57	22.328		
2,000.0	1,998.0	1,998.4	1,998.4	5.8	3.9	-172.51	-151.6	-87.5	214.3	204.7	9.58	22.354		
2,090.0	2,087.3	2,090.8	2,090.8	6.1	4.1	-172.55	-150.4	-88.3	224.5	214.6	9.95	22.566		
2,100.0	2,097.3	2,101.1	2,101.1	6.1	4.1	-172.51	-150.2	-88.6	225.6	215.6	9.99	22.592		
2,185.0	2,181.6	2,188.7	2,188.5	6.3	4.4	-171.87	-146.6	-91.2	234.0	223.7	10.39	22.526		
2,200.0	2,196.5	2,204.1	2,203.9	6.4	4.4	-171.70	-145.7	-91.8	235.4	225.0	10.46	22.507		
2,280.0	2,275.9	2,286.5	2,286.0	6.6	4.7	-170.53	-140.0	-95.9	242.3	231.4	10.83	22.362		
2,300.0	2,295.8	2,307.1	2,306.5	6.6	4.8	-170.17	-138.3	-97.2	243.9	232.9	10.93	22.319		
2,375.0	2,370.2	2,384.1	2,383.0	6.9	5.0	-168.57	-130.8	-102.7	249.4	238.1	11.27	22.135		
2,400.0	2,395.0	2,409.7	2,408.3	6.9	5.1	-167.96	-128.0	-104.8	251.1	239.7	11.38	22.071		
2,470.0	2,464.5	2,481.3	2,479.0	7.2	5.3	-166.04	-119.0	-111.3	255.7	244.0	11.68	21.889		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,500.0	2,494.3	2,511.8	2,509.1	7.3	5.4	-165.13	-114.8	-114.4	257.6	245.8	11.81	21.815		
2,565.0	2,558.8	2,577.8	2,573.9	7.5	5.7	-162.97	-104.7	-121.7	261.6	249.5	12.07	21.669		
2,600.0	2,593.5	2,613.1	2,608.5	7.6	5.8	-161.72	-98.8	-126.1	263.7	251.5	12.21	21.604		
2,660.0	2,653.1	2,673.4	2,667.2	7.8	6.1	-159.42	-88.0	-134.0	267.4	255.0	12.43	21.518		
2,700.0	2,692.8	2,713.4	2,706.0	7.9	6.2	-157.78	-80.2	-139.6	269.9	257.4	12.55	21.513		
2,755.0	2,747.4	2,767.4	2,758.3	8.1	6.3	-155.51	-69.3	-147.6	273.7	261.0	12.70	21.560		
2,800.0	2,792.1	2,811.3	2,800.9	8.3	6.5	-153.70	-60.5	-154.1	277.1	264.3	12.83	21.607		
2,850.0	2,841.7	2,860.2	2,848.2	8.4	6.7	-151.74	-50.6	-161.3	281.3	268.3	12.99	21.655		
2,900.0	2,891.3	2,909.1	2,895.5	8.6	6.8	-149.84	-40.7	-168.5	285.7	272.6	13.15	21.729		
2,945.0	2,936.0	2,953.1	2,938.1	8.8	7.0	-148.18	-31.8	-175.0	290.0	276.7	13.29	21.814		
3,000.0	2,990.6	3,006.8	2,990.2	9.0	7.2	-146.21	-20.9	-182.9	295.6	282.1	13.47	21.939		
3,040.0	3,030.3	3,046.0	3,028.0	9.1	7.3	-144.83	-13.0	-188.7	299.8	286.2	13.60	22.042		
3,100.0	3,089.8	3,104.6	3,084.8	9.3	7.6	-142.82	-1.1	-197.4	306.5	292.7	13.80	22.214		
3,135.0	3,124.6	3,138.8	3,117.9	9.4	7.7	-141.69	5.8	-202.4	310.6	296.7	13.92	22.322		
3,200.0	3,189.1	3,202.4	3,179.4	9.7	8.0	-139.67	18.6	-211.8	318.5	304.4	14.13	22.534		
3,230.0	3,218.8	3,231.7	3,207.8	9.8	8.1	-138.77	24.5	-216.2	322.3	308.1	14.24	22.636		
3,300.0	3,288.3	3,300.1	3,274.1	10.0	8.4	-136.74	38.4	-226.3	331.4	316.9	14.48	22.883		
3,325.0	3,313.1	3,324.5	3,297.7	10.1	8.5	-136.05	43.3	-229.9	334.8	320.2	14.57	22.973		
3,400.0	3,387.6	3,397.9	3,368.7	10.4	8.8	-134.04	58.2	-240.7	345.1	330.3	14.85	23.246		
3,420.0	3,407.4	3,417.4	3,387.6	10.5	8.8	-133.52	62.1	-243.6	347.9	333.0	14.92	23.320		
3,500.0	3,486.8	3,495.6	3,463.4	10.8	9.2	-131.54	77.9	-255.1	359.5	344.3	15.22	23.616		
3,515.0	3,501.7	3,510.3	3,477.5	10.9	9.2	-131.19	80.9	-257.3	361.8	346.5	15.28	23.671		
3,600.0	3,586.1	3,593.4	3,558.0	11.2	9.6	-129.24	97.7	-269.6	374.6	359.0	15.62	23.984		
3,610.0	3,596.0	3,603.1	3,567.5	11.2	9.6	-129.02	99.7	-271.0	376.1	360.5	15.66	24.021		
3,700.0	3,685.3	3,691.1	3,652.6	11.6	10.0	-127.11	117.5	-284.0	390.2	374.2	16.03	24.347		
3,705.0	3,690.3	3,696.0	3,657.4	11.6	10.0	-127.01	118.4	-284.7	391.0	374.9	16.05	24.365		
3,800.0	3,784.6	3,788.9	3,747.3	11.9	10.4	-125.15	137.2	-298.4	406.3	389.8	16.45	24.700		
3,895.0	3,878.9	3,881.7	3,837.2	12.3	10.9	-123.42	156.0	-312.2	422.0	405.1	16.86	25.026		
3,900.0	3,883.9	3,886.6	3,841.9	12.3	10.9	-123.33	157.0	-312.9	422.8	405.9	16.88	25.043		
3,990.0	3,973.2	3,974.6	3,927.1	12.7	11.3	-121.81	174.8	-325.9	438.0	420.8	17.29	25.340		
4,000.0	3,983.1	3,984.4	3,936.5	12.7	11.3	-121.65	176.8	-327.3	439.8	422.4	17.33	25.373		
4,085.0	4,067.5	4,067.5	4,017.0	13.0	11.7	-120.32	193.6	-339.6	454.4	436.7	17.72	25.644		
4,100.0	4,082.4	4,082.1	4,031.2	13.1	11.8	-120.10	196.5	-341.8	457.0	439.2	17.79	25.690		
4,180.0	4,161.8	4,160.3	4,106.9	13.4	12.1	-118.93	212.3	-353.3	471.1	452.9	18.16	25.937		
4,198.2	4,179.8	4,178.1	4,124.1	13.5	12.2	-118.68	215.9	-355.9	474.3	456.0	18.25	25.992		
4,200.0	4,181.6	4,179.9	4,125.8	13.5	12.2	-118.66	216.3	-356.2	474.6	456.4	18.25	26.000		
4,275.0	4,256.1	4,253.2	4,196.8	13.8	12.6	-117.71	231.1	-367.0	487.7	469.1	18.61	26.211		
4,300.0	4,281.0	4,277.6	4,220.4	13.9	12.7	-117.38	236.1	-370.6	492.1	473.3	18.73	26.275		
4,370.0	4,350.6	4,346.0	4,286.6	14.2	13.0	-116.44	249.9	-380.7	504.0	484.9	19.06	26.444		
4,400.0	4,380.5	4,375.3	4,315.0	14.3	13.1	-116.03	255.8	-385.1	509.0	489.8	19.20	26.510		
4,465.0	4,445.3	4,438.7	4,376.4	14.5	13.4	-115.10	268.6	-394.4	519.9	500.3	19.51	26.644		
4,500.0	4,480.2	4,472.9	4,409.5	14.6	13.6	-114.60	275.5	-399.5	525.6	505.9	19.68	26.708		
4,560.0	4,540.1	4,531.4	4,466.1	14.8	13.8	-113.71	287.4	-408.1	535.4	515.5	19.97	26.814		
4,600.0	4,580.0	4,570.3	4,503.8	15.0	14.0	-113.10	295.2	-413.9	541.9	521.7	20.16	26.876		
4,655.0	4,635.0	4,623.9	4,555.7	15.1	14.3	-112.25	306.1	-421.8	550.8	530.3	20.43	26.958		
4,700.0	4,679.9	4,667.7	4,598.0	15.3	14.5	-111.53	314.9	-428.2	558.0	537.3	20.65	27.016		
4,750.0	4,729.9	4,716.2	4,645.1	15.4	14.7	-110.73	324.8	-435.4	566.0	545.1	20.90	27.079		
4,800.0	4,779.9	4,764.8	4,692.1	15.6	14.9	-109.91	334.6	-442.6	574.0	552.8	21.15	27.134		
4,845.0	4,824.9	4,808.4	4,734.3	15.7	15.1	-109.16	343.4	-449.0	581.1	559.8	21.37	27.191		
4,898.1	4,878.0	4,859.9	4,784.1	15.7	15.4	-87.38	353.8	-456.6	589.6	568.0	21.64	27.247		
4,900.0	4,879.9	4,861.7	4,785.9	15.7	15.4	-87.35	354.2	-456.9	589.9	568.3	21.65	27.251		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 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	
4,940.0	4,919.9	4,900.4	4,823.4	15.8	15.6	-86.61	362.0	-462.6	596.4	574.5	21.85	27.296		
5,000.0	4,979.9	4,958.5	4,879.6	15.8	15.8	-85.53	373.7	-471.2	606.2	584.1	22.16	27.359		
5,035.0	5,014.9	4,992.4	4,912.5	15.8	16.0	-84.92	380.6	-476.2	612.1	589.7	22.34	27.394		
5,100.0	5,079.9	5,055.3	4,973.4	15.9	16.3	-83.82	393.3	-485.5	623.1	600.4	22.70	27.455		
5,130.0	5,109.9	5,084.4	5,001.5	15.9	16.4	-83.32	399.2	-489.8	628.3	605.4	22.86	27.482		
5,200.0	5,179.9	5,152.1	5,067.1	15.9	16.8	-82.19	412.9	-499.8	640.5	617.3	23.26	27.542		
5,225.0	5,204.9	5,176.4	5,090.5	15.9	16.9	-81.79	417.8	-503.4	645.0	621.6	23.40	27.562		
5,300.0	5,279.9	5,249.0	5,160.8	16.0	17.2	-80.64	432.5	-514.1	658.4	634.6	23.84	27.622		
5,320.0	5,299.9	5,268.3	5,179.6	16.0	17.3	-80.34	436.4	-517.0	662.1	638.1	23.96	27.638		
5,400.0	5,379.9	5,345.8	5,254.6	16.0	17.7	-79.18	452.1	-528.4	676.8	652.4	24.43	27.698		
5,415.0	5,394.9	5,360.3	5,268.6	16.0	17.8	-78.97	455.0	-530.5	679.6	655.1	24.53	27.709		
5,500.0	5,479.9	5,442.6	5,348.3	16.1	18.2	-77.79	471.6	-542.7	695.6	670.5	25.05	27.771		
5,510.0	5,489.9	5,452.3	5,357.7	16.1	18.2	-77.66	473.6	-544.1	697.5	672.4	25.11	27.779		
5,600.0	5,579.9	5,539.4	5,442.0	16.2	18.6	-76.47	491.2	-557.0	714.7	689.1	25.67	27.843		
5,605.0	5,584.9	5,544.2	5,446.7	16.2	18.6	-76.41	492.2	-557.7	715.7	690.0	25.70	27.847		
5,700.0	5,679.9	5,636.2	5,535.8	16.2	19.1	-75.23	510.8	-571.3	734.3	708.0	26.30	27.916		
5,795.0	5,774.9	5,737.0	5,633.4	16.3	19.6	-74.01	530.9	-586.0	752.9	726.0	26.95	27.934		
5,800.0	5,779.9	5,743.2	5,639.4	16.3	19.6	-73.94	532.1	-586.9	753.8	726.9	26.99	27.929		
5,890.0	5,869.9	5,854.9	5,748.5	16.3	20.2	-72.83	551.5	-601.0	769.4	741.7	27.66	27.814		
5,900.0	5,879.9	5,867.5	5,760.8	16.3	20.2	-72.72	553.5	-602.5	771.0	743.2	27.73	27.799		
5,985.0	5,964.9	5,974.8	5,866.5	16.4	20.7	-71.90	568.5	-613.4	782.9	754.6	28.31	27.654		
6,000.0	5,979.9	5,993.9	5,885.4	16.4	20.8	-71.78	570.8	-615.1	784.8	756.4	28.41	27.625		
6,080.0	6,059.9	6,096.3	5,986.9	16.5	21.3	-71.21	581.6	-623.0	793.3	764.4	28.89	27.463		
6,100.0	6,079.9	6,122.0	6,012.5	16.5	21.4	-71.10	583.9	-624.7	795.1	766.1	28.99	27.422		
6,175.0	6,154.9	6,218.9	6,109.0	16.5	21.8	-70.75	590.7	-629.6	800.5	771.1	29.37	27.254		
6,200.0	6,179.9	6,251.3	6,141.4	16.5	21.9	-70.66	592.4	-630.9	801.8	772.3	29.48	27.198		
6,270.0	6,249.9	6,342.3	6,232.3	16.6	22.2	-70.51	595.5	-633.2	804.3	774.5	29.74	27.043		
6,300.0	6,279.9	6,381.4	6,271.3	16.6	22.3	-70.47	596.2	-633.6	804.8	774.9	29.83	26.979		
6,365.0	6,344.9	6,455.3	6,345.3	16.6	22.4	-70.46	596.4	-633.8	804.9	775.0	29.93	26.896		
6,400.0	6,379.9	6,490.3	6,380.3	16.7	22.4	-70.46	596.4	-633.8	804.9	775.0	29.97	26.855		
6,460.0	6,439.9	6,550.3	6,440.3	16.7	22.4	-70.46	596.4	-633.8	804.9	774.9	30.06	26.780		
6,500.0	6,479.9	6,590.3	6,480.3	16.7	22.4	-70.46	596.4	-633.8	804.9	774.8	30.11	26.730		
6,555.0	6,534.9	6,645.3	6,535.3	16.7	22.5	-70.46	596.4	-633.8	804.9	774.7	30.19	26.660		
6,600.0	6,579.9	6,690.3	6,580.3	16.8	22.5	-70.46	596.4	-633.8	804.9	774.7	30.26	26.604		
6,650.0	6,629.9	6,740.3	6,630.3	16.8	22.5	-70.46	596.4	-633.8	804.9	774.6	30.33	26.542		
6,700.0	6,679.9	6,790.3	6,680.3	16.8	22.5	-70.46	596.4	-633.8	804.9	774.5	30.40	26.480		
6,745.0	6,724.9	6,835.3	6,725.3	16.9	22.6	-70.46	596.4	-633.8	804.9	774.5	30.46	26.425		
6,800.0	6,779.9	6,890.3	6,780.3	16.9	22.6	-70.46	596.4	-633.8	804.9	774.4	30.54	26.357		
6,840.0	6,819.9	6,930.3	6,820.3	16.9	22.6	-70.46	596.4	-633.8	804.9	774.3	30.60	26.308		
6,900.0	6,879.9	6,990.3	6,880.3	17.0	22.6	-70.46	596.4	-633.8	804.9	774.3	30.68	26.235		
6,935.0	6,914.9	7,025.3	6,915.3	17.0	22.6	-70.46	596.4	-633.8	804.9	774.2	30.73	26.194		
7,000.0	6,979.9	7,090.3	6,980.3	17.0	22.7	-70.46	596.4	-633.8	804.9	774.1	30.82	26.117		
7,030.0	7,009.9	7,143.4	7,033.2	17.0	22.7	-70.61	594.2	-633.8	804.6	773.8	30.72	26.194		
7,100.0	7,079.9	7,267.4	7,154.6	17.1	22.8	-72.25	570.1	-634.0	800.2	770.0	30.24	26.460		
7,125.0	7,104.9	7,308.4	7,193.3	17.1	22.8	-73.20	556.4	-634.1	797.6	767.6	30.04	26.555		
7,200.0	7,179.9	7,417.9	7,290.7	17.2	22.9	-76.70	506.7	-634.5	788.0	758.6	29.45	26.759		
7,220.0	7,199.9	7,443.5	7,312.0	17.2	22.9	-77.72	492.5	-634.6	785.2	755.9	29.31	26.787		
7,300.0	7,279.9	7,531.2	7,379.7	17.2	23.0	-81.79	436.9	-635.1	774.2	745.3	28.89	26.794		
7,315.0	7,294.9	7,545.3	7,389.8	17.2	23.0	-82.52	427.0	-635.1	772.3	743.4	28.84	26.782		
7,400.0	7,379.9	7,613.6	7,434.8	17.3	23.1	-86.34	375.8	-635.6	763.9	735.2	28.62	26.693		
7,410.0	7,389.9	7,620.5	7,439.0	17.3	23.1	-86.75	370.3	-635.6	763.2	734.6	28.60	26.684		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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		
7,484.7	7,464.6	7,665.7	7,465.0	17.3	23.1	-89.54	333.3	-635.9	760.7	732.2	28.53	26.667		
7,500.0	7,479.9	7,673.8	7,469.3	17.3	23.1	-90.06	326.4	-635.9	760.8	732.3	28.52	26.678		
7,505.0	7,484.9	7,676.4	7,470.7	17.3	23.1	-90.22	324.2	-636.0	760.9	732.4	28.52	26.683		
7,600.0	7,579.9	7,718.9	7,491.6	17.4	23.2	-93.00	287.3	-636.3	767.2	738.7	28.51	26.911		
7,695.0	7,674.9	7,750.0	7,505.2	17.5	23.2	-95.10	259.3	-636.5	783.0	754.4	28.56	27.420		
7,700.0	7,679.9	7,750.0	7,505.2	17.5	23.2	-95.10	259.3	-636.5	784.1	755.5	28.57	27.444		
7,790.0	7,769.9	7,778.3	7,516.2	17.5	23.2	-97.03	233.3	-636.7	808.2	779.7	28.59	28.274		
7,800.0	7,779.9	7,780.7	7,517.1	17.5	23.2	-97.20	231.0	-636.7	811.4	782.8	28.59	28.380		
7,885.0	7,864.9	7,800.0	7,523.8	17.6	23.2	-98.54	212.9	-636.8	842.5	813.9	28.64	29.416		
7,900.0	7,879.9	7,800.0	7,523.8	17.6	23.2	-98.54	212.9	-636.8	848.7	820.0	28.67	29.600		
7,980.0	7,959.9	7,817.2	7,529.2	17.7	23.3	-99.73	196.6	-637.0	885.0	856.3	28.72	30.817		
8,000.0	7,979.9	7,820.5	7,530.2	17.7	23.3	-99.96	193.4	-637.0	894.9	866.2	28.74	31.143		
8,075.0	8,054.9	7,831.9	7,533.5	17.7	23.3	-100.76	182.5	-637.1	934.7	905.9	28.81	32.446		
8,100.0	8,079.9	7,835.4	7,534.4	17.7	23.3	-101.00	179.1	-637.1	948.9	920.1	28.84	32.907		
8,170.0	8,149.9	7,850.0	7,538.2	17.8	23.3	-102.01	165.0	-637.2	990.8	961.9	28.89	34.293		
8,200.0	8,179.9	7,850.0	7,538.2	17.8	23.3	-102.01	165.0	-637.2	1,009.6	980.6	28.95	34.874		
8,265.0	8,244.9	7,850.0	7,538.2	17.8	23.3	-102.01	165.0	-637.2	1,052.1	1,023.0	29.08	36.186		
8,300.0	8,279.9	7,850.0	7,538.2	17.9	23.3	-102.01	165.0	-637.2	1,075.9	1,046.8	29.14	36.919		
8,360.0	8,339.9	7,850.0	7,538.2	17.9	23.3	-102.01	165.0	-637.2	1,118.2	1,088.9	29.26	38.212		
8,400.0	8,379.9	7,868.1	7,542.4	17.9	23.3	-103.27	147.5	-637.4	1,146.8	1,117.6	29.27	39.176		
8,429.2	8,409.0	7,870.6	7,542.9	17.9	23.3	-103.44	145.0	-637.4	1,168.3	1,139.0	29.32	39.845		
8,450.0	8,429.9	7,872.4	7,543.3	17.9	23.3	73.73	143.2	-637.4	1,183.8	1,154.5	29.27	40.443		
8,455.0	8,434.9	7,872.9	7,543.4	18.0	23.3	73.16	142.8	-637.4	1,187.5	1,158.2	29.28	40.558		
8,500.0	8,479.7	7,877.8	7,544.4	18.0	23.3	68.14	138.0	-637.4	1,220.9	1,191.5	29.37	41.569		
8,550.0	8,529.0	7,900.0	7,548.5	18.1	23.3	61.94	116.1	-637.6	1,258.1	1,228.6	29.44	42.731		
8,600.0	8,577.4	7,900.0	7,548.5	18.1	23.3	57.42	116.1	-637.6	1,294.2	1,264.6	29.61	43.708		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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				Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned: Distance		Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	0.0	0.0	3.0	3.0	-159.12	-151.0	-57.6	161.6						
95.0	95.0	95.0	95.0	3.0	3.0	-159.12	-151.0	-57.6	161.6	155.6	6.02	26.855			
100.0	100.0	100.0	100.0	3.0	3.0	-159.12	-151.0	-57.6	161.6	155.6	6.02	26.842			
190.0	190.0	190.0	190.0	3.1	3.0	-159.12	-151.0	-57.6	161.6	155.5	6.13	26.352			
200.0	200.0	200.0	200.0	3.1	3.0	-159.12	-151.0	-57.6	161.6	155.5	6.15	26.274			
285.0	285.0	285.0	285.0	3.3	3.0	-159.12	-151.0	-57.6	161.6	155.4	6.26	25.807			
300.0	300.0	300.0	300.0	3.3	3.0	-159.12	-151.0	-57.6	161.6	155.3	6.28	25.715			
380.0	380.0	380.0	380.0	3.4	3.0	-159.12	-151.0	-57.6	161.6	155.2	6.39	25.280			
400.0	400.0	400.0	400.0	3.4	3.0	-159.12	-151.0	-57.6	161.6	155.2	6.42	25.163			
475.0	475.0	475.0	475.0	3.5	3.0	-159.12	-151.0	-57.6	161.6	155.1	6.53	24.761			
500.0	500.0	500.0	500.0	3.5	3.1	-159.12	-151.0	-57.6	161.6	155.0	6.56	24.621			
570.0	570.0	570.0	570.0	3.6	3.1	-159.12	-151.0	-57.6	161.6	154.9	6.66	24.250			
600.0	600.0	600.0	600.0	3.6	3.1	-159.12	-151.0	-57.6	161.6	154.9	6.71	24.086			
665.0	665.0	665.0	665.0	3.7	3.1	-159.12	-151.0	-57.6	161.6	154.8	6.81	23.747			
700.0	700.0	700.0	700.0	3.8	3.1	-159.12	-151.0	-57.6	161.6	154.8	6.86	23.561			
760.0	760.0	760.0	760.0	3.8	3.1	-159.12	-151.0	-57.6	161.6	154.7	6.95	23.254			
800.0	800.0	800.0	800.0	3.9	3.2	-159.12	-151.0	-57.6	161.6	154.6	7.01	23.046			
855.0	855.0	855.0	855.0	4.0	3.2	-159.12	-151.0	-57.6	161.6	154.5	7.10	22.769			
900.0	900.0	900.0	900.0	4.0	3.2	-159.12	-151.0	-57.6	161.6	154.4	7.17	22.541			
950.0	950.0	950.0	950.0	4.1	3.2	-159.12	-151.0	-57.6	161.6	154.4	7.25	22.294			
1,000.0	1,000.0	1,000.0	1,000.0	4.1	3.2	-159.12	-151.0	-57.6	161.6	154.3	7.33	22.046			
1,045.0	1,045.0	1,045.0	1,045.0	4.2	3.3	-159.12	-151.0	-57.6	161.6	154.2	7.40	21.829			
1,100.0	1,100.0	1,100.0	1,100.0	4.2	3.3	-159.12	-151.0	-57.6	161.6	154.1	7.50	21.563			
1,140.0	1,140.0	1,140.0	1,140.0	4.3	3.3	-159.12	-151.0	-57.6	161.6	154.1	7.56	21.373			
1,200.0	1,200.0	1,200.0	1,200.0	4.4	3.4	-159.12	-151.0	-57.6	161.6	154.0	7.66	21.090			
1,235.0	1,235.0	1,235.0	1,235.0	4.4	3.4	-159.12	-151.0	-57.6	161.6	153.9	7.72	20.928			
1,300.0	1,300.0	1,300.0	1,300.0	4.5	3.4	-159.12	-151.0	-57.6	161.6	153.8	7.83	20.629			
1,330.0	1,330.0	1,330.0	1,330.0	4.5	3.4	-159.12	-151.0	-57.6	161.6	153.7	7.89	20.494			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	3.5	-159.12	-151.0	-57.6	161.6	153.6	8.01	20.180			
1,425.0	1,425.0	1,425.0	1,425.0	4.6	3.5	-159.12	-151.0	-57.6	161.6	153.6	8.05	20.070			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	3.5	-159.12	-151.0	-57.6	161.6	153.4	8.19	19.743 CC			
1,520.0	1,520.0	1,520.0	1,520.0	4.8	3.6	-180.00	-151.0	-57.6	161.7	153.4	8.24	19.634			
1,600.0	1,600.0	1,600.0	1,600.0	4.9	3.6	-180.00	-151.0	-57.6	163.4	154.9	8.45	19.326			
1,615.0	1,615.0	1,615.0	1,615.0	5.0	3.6	-180.00	-151.0	-57.6	163.9	155.4	8.50	19.280			
1,700.0	1,699.8	1,699.8	1,699.8	5.2	3.7	-180.00	-151.0	-57.6	168.6	159.8	8.79	19.181			
1,710.0	1,709.8	1,709.8	1,709.8	5.2	3.7	-180.00	-151.0	-57.6	169.3	160.5	8.82	19.186			
1,800.0	1,799.5	1,799.5	1,799.5	5.4	3.8	-180.00	-151.0	-57.6	177.3	168.2	9.14	19.390			
1,805.0	1,804.4	1,804.4	1,804.4	5.5	3.8	-180.00	-151.0	-57.6	177.8	168.7	9.15	19.425			
1,850.0	1,849.1	1,849.1	1,849.1	5.5	3.8	-180.00	-151.0	-57.6	183.0	173.7	9.25	19.773			
1,900.0	1,898.8	1,898.8	1,898.8	5.6	3.9	-180.00	-151.0	-57.6	189.1	179.7	9.36	20.192			
1,995.0	1,993.0	1,993.0	1,993.0	5.8	3.9	-180.00	-151.0	-57.6	200.6	191.0	9.66	20.769			
2,000.0	1,998.0	1,998.0	1,998.0	5.8	3.9	-180.00	-151.0	-57.6	201.2	191.6	9.68	20.798			
2,090.0	2,087.3	2,093.8	2,093.8	6.1	4.2	-179.85	-149.5	-57.6	210.9	200.8	10.12	20.834			
2,100.0	2,097.3	2,104.5	2,104.5	6.1	4.2	-179.82	-149.1	-57.6	211.8	201.6	10.17	20.814			
2,185.0	2,181.6	2,195.7	2,195.5	6.3	4.5	-179.38	-144.3	-57.6	218.0	207.3	10.67	20.435			
2,200.0	2,196.5	2,211.8	2,211.6	6.4	4.5	-179.28	-143.2	-57.6	218.8	208.1	10.76	20.346			
2,280.0	2,275.9	2,297.8	2,297.3	6.6	4.8	-178.59	-135.5	-57.5	222.0	210.8	11.23	19.762			
2,300.0	2,295.8	2,319.4	2,318.7	6.6	4.9	-178.39	-133.2	-57.5	222.4	211.1	11.35	19.591			
2,375.0	2,370.2	2,400.1	2,398.8	6.9	5.2	-177.48	-123.1	-57.5	222.9	211.1	11.81	18.871			
2,400.0	2,395.0	2,427.0	2,425.4	6.9	5.2	-177.12	-119.2	-57.4	222.6	210.7	11.96	18.606			
2,470.0	2,464.5	2,502.2	2,499.6	7.2	5.5	-175.98	-107.1	-57.4	220.8	208.4	12.40	17.808			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error: 0.0 usft		
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS				Rule Assigned:										Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
2,500.0	2,494.3	2,534.3	2,531.2	7.3	5.6	-175.43	-101.3	-57.4	219.5	206.9	12.56	17.481			
2,565.0	2,558.8	2,601.9	2,597.5	7.5	5.8	-174.11	-88.1	-57.3	215.9	203.0	12.88	16.757			
2,600.0	2,593.5	2,636.7	2,631.6	7.6	5.9	-173.39	-81.2	-57.3	213.9	200.8	13.08	16.346			
2,660.0	2,653.1	2,696.4	2,690.1	7.8	6.1	-172.13	-69.3	-57.2	210.5	197.0	13.43	15.673			
2,700.0	2,692.8	2,736.2	2,729.1	7.9	6.2	-171.27	-61.3	-57.2	208.2	194.6	13.66	15.247			
2,755.0	2,747.4	2,791.0	2,782.8	8.1	6.4	-170.06	-50.4	-57.1	205.3	191.3	13.98	14.690			
2,800.0	2,792.1	2,835.8	2,826.7	8.3	6.5	-169.04	-41.5	-57.1	202.9	188.7	14.23	14.258			
2,850.0	2,841.7	2,885.5	2,875.4	8.4	6.7	-167.88	-31.6	-57.0	200.4	185.9	14.52	13.804			
2,900.0	2,891.3	2,935.3	2,924.2	8.6	6.9	-166.69	-21.6	-57.0	198.0	183.2	14.80	13.376			
2,945.0	2,936.0	2,980.1	2,968.1	8.8	7.0	-165.59	-12.7	-56.9	195.8	180.8	15.05	13.013			
3,000.0	2,990.6	3,034.8	3,021.7	9.0	7.2	-164.22	-1.8	-56.9	193.3	178.0	15.35	12.597			
3,040.0	3,030.3	3,074.7	3,060.8	9.1	7.4	-163.21	6.2	-56.8	191.6	176.0	15.56	12.313			
3,100.0	3,089.8	3,134.4	3,119.3	9.3	7.6	-161.64	18.1	-56.8	189.1	173.2	15.87	11.916			
3,135.0	3,124.6	3,169.2	3,153.4	9.4	7.7	-160.71	25.0	-56.7	187.7	171.6	16.04	11.699			
3,200.0	3,189.1	3,233.9	3,216.8	9.7	8.0	-158.95	37.9	-56.7	185.2	168.9	16.35	11.326			
3,230.0	3,218.8	3,263.8	3,246.1	9.8	8.1	-158.12	43.9	-56.7	184.1	167.6	16.49	11.167			
3,300.0	3,288.3	3,333.4	3,314.4	10.0	8.4	-156.15	57.8	-56.6	181.8	165.0	16.79	10.824			
3,325.0	3,313.1	3,358.3	3,338.7	10.1	8.5	-155.44	62.7	-56.6	181.0	164.1	16.90	10.711			
3,400.0	3,387.6	3,433.0	3,411.9	10.4	8.8	-153.25	77.6	-56.5	178.8	161.6	17.19	10.404			
3,420.0	3,407.4	3,452.9	3,431.4	10.5	8.9	-152.66	81.6	-56.5	178.3	161.0	17.26	10.329			
3,500.0	3,486.8	3,532.5	3,509.4	10.8	9.2	-150.26	97.5	-56.4	176.3	158.8	17.52	10.061			
3,515.0	3,501.7	3,547.4	3,524.1	10.9	9.3	-149.81	100.5	-56.4	176.0	158.4	17.57	10.016			
3,600.0	3,586.1	3,632.0	3,607.0	11.2	9.6	-147.20	117.3	-56.3	174.3	156.5	17.80	9.791			
3,610.0	3,596.0	3,642.0	3,616.7	11.2	9.7	-146.89	119.3	-56.3	174.1	156.3	17.83	9.768			
3,700.0	3,685.3	3,731.6	3,704.5	11.6	10.0	-144.07	137.2	-56.2	172.8	154.8	18.02	9.591			
3,705.0	3,690.3	3,736.6	3,709.4	11.6	10.0	-143.92	138.2	-56.2	172.8	154.7	18.03	9.582			
3,800.0	3,784.6	3,831.1	3,802.0	11.9	10.4	-140.90	157.0	-56.1	171.9	153.7	18.18	9.455			
3,895.0	3,878.9	3,925.7	3,894.7	12.3	10.9	-137.87	175.9	-56.0	171.5	153.2	18.28	9.382			
3,900.0	3,883.9	3,930.7	3,899.6	12.3	10.9	-137.71	176.9	-56.0	171.4	153.2	18.28	9.379			
3,928.3	3,911.9	3,958.8	3,927.2	12.4	11.0	-136.80	182.5	-56.0	171.4	153.1	18.30	9.368 ES			
3,990.0	3,973.2	4,020.2	3,987.3	12.7	11.3	-134.83	194.8	-55.9	171.5	153.2	18.33	9.359			
4,000.0	3,983.1	4,030.2	3,997.1	12.7	11.3	-134.51	196.7	-55.9	171.6	153.2	18.33	9.360			
4,085.0	4,067.5	4,114.8	4,080.0	13.0	11.7	-131.80	213.6	-55.8	172.1	153.7	18.34	9.383			
4,100.0	4,082.4	4,129.7	4,094.6	13.1	11.7	-131.32	216.6	-55.8	172.2	153.9	18.34	9.391			
4,180.0	4,161.8	4,209.4	4,172.7	13.4	12.1	-128.79	232.5	-55.7	173.1	154.8	18.32	9.448			
4,198.2	4,179.8	4,227.5	4,190.4	13.5	12.2	-128.22	236.1	-55.7	173.4	155.1	18.32	9.465			
4,200.0	4,181.6	4,229.3	4,192.2	13.5	12.2	-128.17	236.4	-55.7	173.4	155.1	18.32	9.468			
4,275.0	4,256.1	4,303.9	4,265.3	13.8	12.5	-125.71	251.3	-55.6	174.3	156.1	18.26	9.546			
4,300.0	4,281.0	4,328.7	4,289.6	13.9	12.6	-124.84	256.3	-55.6	174.6	156.4	18.24	9.575			
4,370.0	4,350.6	4,398.3	4,357.8	14.2	12.9	-122.26	270.1	-55.6	175.2	157.1	18.13	9.666			
4,400.0	4,380.5	4,428.1	4,387.0	14.3	13.0	-121.09	276.1	-55.5	175.5	157.4	18.07	9.709			
4,465.0	4,445.3	4,492.5	4,450.1	14.5	13.3	-118.41	288.9	-55.5	176.0	158.1	17.94	9.812			
4,500.0	4,480.2	4,527.2	4,484.1	14.6	13.5	-116.90	295.9	-55.4	176.3	158.5	17.86	9.871			
4,560.0	4,540.1	4,586.6	4,542.3	14.8	13.7	-114.18	307.7	-55.4	176.9	159.2	17.73	9.977			
4,600.0	4,580.0	4,626.2	4,581.1	15.0	13.9	-112.27	315.6	-55.3	177.4	159.8	17.66	10.047			
4,655.0	4,635.0	4,680.5	4,634.3	15.1	14.2	-109.55	326.4	-55.3	178.3	160.7	17.58	10.140			
4,700.0	4,679.9	4,724.9	4,677.8	15.3	14.4	-107.24	335.3	-55.2	179.2	161.6	17.56	10.207			
4,750.0	4,729.9	4,774.1	4,726.1	15.4	14.6	-104.57	345.1	-55.2	180.4	162.9	17.57	10.267			
4,800.0	4,779.9	4,823.3	4,774.3	15.6	14.8	-101.83	354.9	-55.1	182.0	164.3	17.66	10.306			
4,845.0	4,824.9	4,867.5	4,817.6	15.7	15.0	-99.30	363.7	-55.1	183.7	165.9	17.80	10.322			
4,898.1	4,878.0	4,919.6	4,868.6	15.7	15.2	-75.38	374.1	-55.1	186.1	168.1	18.05	10.309			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,900.0	4,879.9	4,921.4	4,870.4	15.7	15.2	-75.27	374.5	-55.1	186.2	168.1	18.06	10.308		
4,940.0	4,919.9	4,960.6	4,908.9	15.8	15.4	-72.96	382.3	-55.0	188.4	170.1	18.33	10.278		
5,000.0	4,979.9	5,019.4	4,966.5	15.8	15.7	-69.60	394.0	-55.0	192.2	173.4	18.83	10.211		
5,035.0	5,014.9	5,053.7	5,000.1	15.8	15.8	-67.71	400.9	-54.9	194.8	175.6	19.16	10.165		
5,100.0	5,079.9	5,117.4	5,062.5	15.9	16.1	-64.32	413.6	-54.9	200.1	180.2	19.87	10.073		
5,130.0	5,109.9	5,146.8	5,091.3	15.9	16.3	-62.82	419.4	-54.8	202.8	182.6	20.21	10.032		
5,200.0	5,179.9	5,215.4	5,158.5	15.9	16.6	-59.47	433.1	-54.8	209.6	188.5	21.07	9.945		
5,225.0	5,204.9	5,239.9	5,182.5	15.9	16.7	-58.32	438.0	-54.7	212.2	190.8	21.39	9.918		
5,300.0	5,279.9	5,313.4	5,254.5	16.0	17.0	-55.04	452.7	-54.7	220.4	198.1	22.36	9.858		
5,320.0	5,299.9	5,333.0	5,273.7	16.0	17.1	-54.21	456.6	-54.7	222.8	200.1	22.62	9.847		
5,400.0	5,379.9	5,411.4	5,350.6	16.0	17.5	-51.05	472.2	-54.6	232.5	208.9	23.67	9.825		
5,415.0	5,394.9	5,426.1	5,365.0	16.0	17.5	-50.48	475.1	-54.6	234.4	210.6	23.86	9.825		
5,500.0	5,479.9	5,509.4	5,446.6	16.1	17.9	-47.45	491.8	-54.5	245.6	220.7	24.94	9.847		
5,510.0	5,489.9	5,519.2	5,456.2	16.1	18.0	-47.11	493.7	-54.5	247.0	221.9	25.07	9.852		
5,600.0	5,579.9	5,607.4	5,542.6	16.2	18.4	-44.23	511.3	-54.4	259.6	233.4	26.17	9.918		
5,605.0	5,584.9	5,612.3	5,547.4	16.2	18.4	-44.07	512.3	-54.4	260.3	234.1	26.23	9.923		
5,700.0	5,679.9	5,705.4	5,638.6	16.2	18.8	-41.33	530.8	-54.3	274.3	247.0	27.35	10.031		
5,795.0	5,774.9	5,798.5	5,729.8	16.3	19.2	-38.85	549.4	-54.2	288.9	260.5	28.40	10.171		
5,800.0	5,779.9	5,803.4	5,734.6	16.3	19.3	-38.73	550.4	-54.2	289.7	261.2	28.46	10.179		
5,890.0	5,869.9	5,898.0	5,827.5	16.3	19.7	-36.58	568.3	-54.1	303.2	273.8	29.40	10.311		
5,900.0	5,879.9	5,908.7	5,838.1	16.3	19.7	-36.37	570.1	-54.1	304.6	275.1	29.50	10.323		
5,985.0	5,964.9	6,000.8	5,929.1	16.4	20.2	-34.82	584.3	-54.0	315.2	284.9	30.28	10.409		
6,000.0	5,979.9	6,017.2	5,945.3	16.4	20.2	-34.59	586.5	-54.0	316.9	286.5	30.41	10.422		
6,080.0	6,059.9	6,104.7	6,032.3	16.5	20.6	-33.55	596.8	-54.0	324.7	293.7	31.01	10.471		
6,100.0	6,079.9	6,126.7	6,054.2	16.5	20.7	-33.34	599.0	-54.0	326.3	295.2	31.14	10.479		
6,175.0	6,154.9	6,209.4	6,136.6	16.5	21.0	-32.70	605.6	-53.9	331.3	299.8	31.58	10.493		
6,200.0	6,179.9	6,237.1	6,164.2	16.5	21.1	-32.54	607.3	-53.9	332.6	300.9	31.70	10.493		
6,270.0	6,249.9	6,314.6	6,241.7	16.6	21.4	-32.24	610.6	-53.9	335.1	303.2	31.98	10.480		
6,300.0	6,279.9	6,347.9	6,274.9	16.6	21.5	-32.16	611.4	-53.9	335.7	303.7	32.04	10.478		
6,365.0	6,344.9	6,417.9	6,344.9	16.6	21.6	-32.12	611.8	-53.9	336.1	303.9	32.14	10.455		
6,400.0	6,379.9	6,452.9	6,379.9	16.7	21.6	-32.12	611.8	-53.9	336.1	303.9	32.19	10.440		
6,460.0	6,439.9	6,512.9	6,439.9	16.7	21.6	-32.12	611.8	-53.9	336.1	303.8	32.27	10.415		
6,500.0	6,479.9	6,552.9	6,479.9	16.7	21.6	-32.12	611.8	-53.9	336.1	303.7	32.32	10.398		
6,555.0	6,534.9	6,607.9	6,534.9	16.7	21.7	-32.12	611.8	-53.9	336.1	303.7	32.39	10.375		
6,600.0	6,579.9	6,652.9	6,579.9	16.8	21.7	-32.12	611.8	-53.9	336.1	303.6	32.45	10.356		
6,650.0	6,629.9	6,702.9	6,629.9	16.8	21.7	-32.12	611.8	-53.9	336.1	303.5	32.51	10.335		
6,700.0	6,679.9	6,752.9	6,679.9	16.8	21.7	-32.12	611.8	-53.9	336.1	303.5	32.58	10.315		
6,745.0	6,724.9	6,797.9	6,724.9	16.9	21.7	-32.12	611.8	-53.9	336.1	303.4	32.64	10.296		
6,800.0	6,779.9	6,852.9	6,779.9	16.9	21.8	-32.12	611.8	-53.9	336.1	303.3	32.71	10.274		
6,840.0	6,819.9	6,892.9	6,819.9	16.9	21.8	-32.12	611.8	-53.9	336.1	303.3	32.76	10.257		
6,900.0	6,879.9	6,952.9	6,879.9	17.0	21.8	-32.12	611.8	-53.9	336.1	303.2	32.84	10.233		
6,935.0	6,914.9	6,987.9	6,914.9	17.0	21.8	-32.12	611.8	-53.9	336.1	303.2	32.89	10.218		
7,000.0	6,979.9	7,052.9	6,979.9	17.0	21.9	-32.12	611.8	-53.9	336.1	303.1	32.97	10.192		
7,030.0	7,009.9	7,082.9	7,009.9	17.0	21.9	-32.12	611.8	-53.9	336.1	303.0	33.01	10.180		
7,100.0	7,079.9	7,152.9	7,079.9	17.1	21.9	-32.12	611.8	-53.9	336.1	303.0	33.10	10.152		
7,125.0	7,104.9	7,177.9	7,104.9	17.1	21.9	-32.12	611.8	-53.9	336.1	302.9	33.14	10.141		
7,200.0	7,179.9	7,252.9	7,179.9	17.2	22.0	-32.12	611.8	-53.9	336.1	302.8	33.24	10.111		
7,220.0	7,199.9	7,272.9	7,199.9	17.2	22.0	-32.12	611.8	-53.9	336.1	302.8	33.26	10.103		
7,300.0	7,279.9	7,352.9	7,279.9	17.2	22.0	-32.12	611.8	-53.9	336.1	302.7	33.37	10.071		
7,315.0	7,294.9	7,367.9	7,294.9	17.2	22.0	-32.12	611.8	-53.9	336.1	302.7	33.39	10.065		
7,400.0	7,379.9	7,452.9	7,379.9	17.3	22.0	-32.12	611.8	-53.9	336.1	302.6	33.48	10.036		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
7,410.0	7,389.9	7,466.6	7,393.7	17.3	22.1	-32.13	611.8	-53.9	336.0	302.6	33.45	10.045
7,500.0	7,479.9	7,638.5	7,562.6	17.3	22.2	-34.87	583.9	-54.1	323.7	292.1	31.58	10.248
7,505.0	7,484.9	7,647.4	7,571.0	17.3	22.2	-35.17	581.1	-54.1	322.4	290.9	31.44	10.253
7,600.0	7,579.9	7,796.8	7,704.6	17.4	22.4	-43.69	515.1	-54.7	288.2	259.7	28.55	10.096
7,695.0	7,674.9	7,908.1	7,790.5	17.5	22.6	-56.88	444.6	-55.2	244.1	218.1	26.00	9.388
7,700.0	7,679.9	7,913.0	7,794.0	17.5	22.6	-57.67	441.2	-55.3	241.7	215.8	25.88	9.339
7,790.0	7,769.9	7,988.5	7,843.3	17.5	22.6	-72.51	384.1	-55.7	203.0	178.8	24.18	8.396
7,800.0	7,779.9	7,995.6	7,847.5	17.5	22.6	-74.17	378.4	-55.8	199.5	175.5	24.04	8.297
7,885.0	7,864.9	8,047.2	7,876.2	17.6	22.7	-87.37	335.5	-56.1	181.4	157.8	23.68	7.662
7,900.0	7,879.9	8,055.0	7,880.2	17.6	22.7	-89.49	328.8	-56.1	181.0	157.2	23.79	7.608
7,900.4	7,880.3	8,055.2	7,880.3	17.6	22.7	-89.54	328.6	-56.2	181.0	157.2	23.79	7.606
7,980.0	7,959.9	8,091.1	7,897.5	17.7	22.7	-99.42	297.1	-56.4	194.0	169.0	24.95	7.774
8,000.0	7,979.9	8,100.0	7,901.4	17.7	22.7	-101.86	289.1	-56.5	201.1	175.8	25.34	7.938
8,075.0	8,054.9	8,124.8	7,911.8	17.7	22.7	-108.46	266.6	-56.6	238.9	212.5	26.38	9.056
8,100.0	8,079.9	8,132.3	7,914.7	17.7	22.8	-110.41	259.7	-56.7	254.5	227.9	26.65	9.550
8,170.0	8,149.9	8,150.0	7,921.3	17.8	22.8	-114.81	243.3	-56.8	303.8	276.6	27.18	11.177
8,200.0	8,179.9	8,158.5	7,924.3	17.8	22.8	-116.82	235.3	-56.9	326.8	299.4	27.39	11.932
8,265.0	8,244.9	8,172.6	7,928.9	17.8	22.8	-120.05	222.0	-57.0	379.4	351.7	27.70	13.695
8,300.0	8,279.9	8,179.4	7,931.1	17.9	22.8	-121.55	215.6	-57.0	408.9	381.1	27.84	14.685
8,360.0	8,339.9	8,200.0	7,937.1	17.9	22.8	-125.82	195.8	-57.2	461.1	432.9	28.20	16.354
8,400.0	8,379.9	8,200.0	7,937.1	17.9	22.8	-125.82	195.8	-57.2	496.5	468.2	28.24	17.580
8,429.2	8,409.0	8,200.0	7,937.1	17.9	22.8	-125.82	195.8	-57.2	522.6	494.3	28.29	18.477
8,450.0	8,429.9	8,200.0	7,937.1	17.9	22.8	50.27	195.8	-57.2	541.4	513.2	28.22	19.186
8,455.0	8,434.9	8,200.0	7,937.1	18.0	22.8	49.48	195.8	-57.2	545.9	517.7	28.23	19.339
8,500.0	8,479.7	8,212.7	7,940.4	18.0	22.8	41.26	183.5	-57.3	586.0	557.6	28.41	20.624
8,550.0	8,529.0	8,222.7	7,942.9	18.1	22.8	34.65	173.9	-57.4	629.7	601.1	28.57	22.041
8,600.0	8,577.4	8,233.8	7,945.4	18.1	22.8	29.49	163.0	-57.5	672.2	643.5	28.73	23.398
8,645.0	8,619.8	8,250.0	7,948.7	18.2	22.8	25.56	147.2	-57.6	709.3	680.4	28.91	24.540
8,650.0	8,624.5	8,250.0	7,948.7	18.2	22.8	25.26	147.2	-57.6	713.4	684.4	28.92	24.669
8,700.0	8,669.9	8,250.0	7,948.7	18.3	22.8	22.63	147.2	-57.6	753.0	723.9	29.06	25.914
8,740.0	8,704.9	8,269.6	7,952.0	18.3	22.8	20.26	127.9	-57.7	783.3	754.0	29.25	26.783
8,750.0	8,713.4	8,272.4	7,952.5	18.3	22.8	19.80	125.2	-57.8	790.7	761.4	29.29	26.998
8,800.0	8,754.5	8,300.0	7,956.0	18.4	22.8	17.51	97.8	-58.0	826.8	797.3	29.53	27.996
8,835.0	8,781.8	8,300.0	7,956.0	18.5	22.8	16.57	97.8	-58.0	850.5	820.8	29.68	28.657
8,850.0	8,793.1	8,300.0	7,956.0	18.5	22.8	16.20	97.8	-58.0	860.4	830.7	29.75	28.923
8,900.0	8,828.7	8,316.6	7,957.4	18.6	22.8	14.85	81.2	-58.1	892.1	862.1	30.02	29.723
8,930.0	8,848.5	8,325.9	7,958.0	18.6	22.8	14.18	71.9	-58.2	910.1	879.9	30.18	30.151
8,950.0	8,861.1	8,332.3	7,958.4	18.6	22.8	13.77	65.6	-58.2	921.6	891.3	30.30	30.415
9,000.0	8,890.0	8,350.0	7,958.9	18.7	22.8	12.86	47.9	-58.4	948.7	918.1	30.61	30.997
9,025.0	8,903.1	8,358.7	7,959.0	18.7	22.8	12.47	39.2	-58.5	961.3	930.6	30.76	31.258
9,050.0	8,915.3	8,374.4	7,959.0	18.7	22.8	12.08	23.4	-58.6	973.3	942.4	30.89	31.508
9,100.0	8,936.8	8,419.6	7,959.0	18.8	22.8	11.35	-21.7	-58.9	994.3	963.2	31.14	31.930
9,120.0	8,944.2	8,438.1	7,959.0	18.8	22.8	11.11	-40.3	-59.1	1,001.7	970.4	31.25	32.055
9,150.0	8,954.2	8,466.4	7,959.1	18.8	22.8	10.81	-68.6	-59.3	1,011.5	980.1	31.41	32.203
9,200.0	8,967.5	8,514.6	7,959.1	18.9	22.8	10.42	-116.8	-59.7	1,024.5	992.8	31.69	32.332
9,215.0	8,970.7	8,529.3	7,959.1	18.9	22.8	10.33	-131.4	-59.8	1,027.6	995.8	31.78	32.340
9,250.0	8,976.5	8,563.8	7,959.1	18.9	22.8	10.17	-165.9	-60.1	1,033.4	1,001.4	31.98	32.311
9,300.0	8,981.3	8,613.6	7,959.1	18.9	22.8	10.04	-215.7	-60.5	1,038.0	1,005.7	32.28	32.151
9,310.0	8,981.7	8,623.6	7,959.1	18.9	22.8	10.03	-225.7	-60.6	1,038.4	1,006.1	32.34	32.111
9,328.9	8,982.0	8,642.4	7,959.1	18.9	22.8	10.02	-244.6	-60.7	1,038.7	1,006.3	32.44	32.020
9,400.0	8,982.0	8,713.6	7,959.2	18.9	22.9	10.02	-315.7	-61.3	1,038.7	1,005.9	32.82	31.649

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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		
9,405.0	8,982.0	8,718.6	7,959.2	18.9	22.9	10.02	-320.7	-61.3	1,038.7	1,005.8	32.85	31.620		
9,500.0	8,982.1	8,813.6	7,959.2	19.0	22.9	10.02	-415.7	-62.1	1,038.7	1,005.3	33.42	31.081		
9,595.0	8,982.1	8,908.6	7,959.3	19.0	22.9	10.02	-510.7	-62.8	1,038.7	1,004.6	34.04	30.509		
9,600.0	8,982.1	8,913.6	7,959.3	19.0	22.9	10.02	-515.7	-62.9	1,038.7	1,004.6	34.08	30.479		
9,690.0	8,982.2	9,003.6	7,959.3	19.1	22.9	10.02	-605.7	-63.6	1,038.7	1,003.9	34.72	29.913		
9,700.0	8,982.2	9,013.6	7,959.3	19.1	22.9	10.02	-615.7	-63.7	1,038.7	1,003.9	34.80	29.850		
9,785.0	8,982.2	9,098.6	7,959.4	19.1	22.9	10.02	-700.7	-64.3	1,038.7	1,003.2	35.45	29.299		
9,800.0	8,982.2	9,113.6	7,959.4	19.1	22.9	10.02	-715.7	-64.4	1,038.7	1,003.1	35.57	29.201		
9,880.0	8,982.3	9,193.6	7,959.4	19.2	22.9	10.01	-795.7	-65.1	1,038.6	1,002.4	36.22	28.672		
9,900.0	8,982.3	9,213.6	7,959.4	19.2	22.9	10.01	-815.7	-65.2	1,038.6	1,002.3	36.39	28.540		
9,975.0	8,982.3	9,288.6	7,959.5	19.2	22.9	10.01	-890.7	-65.8	1,038.6	1,001.6	37.04	28.039		
10,000.0	8,982.3	9,313.6	7,959.5	19.3	22.9	10.01	-915.7	-66.0	1,038.6	1,001.4	37.26	27.873		
10,070.0	8,982.3	9,383.6	7,959.5	19.3	22.9	10.01	-985.7	-66.6	1,038.6	1,000.7	37.90	27.404		
10,100.0	8,982.4	9,413.6	7,959.5	19.4	22.9	10.01	-1,015.7	-66.8	1,038.6	1,000.4	38.18	27.205		
10,165.0	8,982.4	9,478.6	7,959.6	19.4	22.9	10.01	-1,080.7	-67.4	1,038.6	999.8	38.80	26.770		
10,200.0	8,982.4	9,513.6	7,959.6	19.5	23.0	10.01	-1,115.7	-67.6	1,038.6	999.5	39.13	26.540		
10,260.0	8,982.4	9,573.6	7,959.6	19.6	23.0	10.01	-1,175.7	-68.1	1,038.6	998.9	39.73	26.143		
10,300.0	8,982.5	9,613.6	7,959.7	19.6	23.0	10.01	-1,215.7	-68.4	1,038.6	998.5	40.13	25.883		
10,355.0	8,982.5	9,668.6	7,959.7	19.7	23.0	10.01	-1,270.6	-68.9	1,038.6	997.9	40.69	25.523		
10,400.0	8,982.5	9,713.6	7,959.7	19.8	23.0	10.01	-1,315.6	-69.2	1,038.6	997.4	41.16	25.235		
10,450.0	8,982.5	9,763.6	7,959.7	19.9	23.0	10.00	-1,365.6	-69.6	1,038.6	996.9	41.69	24.914		
10,500.0	8,982.5	9,813.6	7,959.8	20.0	23.0	10.00	-1,415.6	-70.0	1,038.6	996.4	42.22	24.599		
10,545.0	8,982.6	9,858.6	7,959.8	20.1	23.0	10.00	-1,460.6	-70.4	1,038.6	995.9	42.71	24.316		
10,600.0	8,982.6	9,913.6	7,959.8	20.2	23.0	10.00	-1,515.6	-70.8	1,038.6	995.3	43.31	23.978		
10,640.0	8,982.6	9,953.6	7,959.8	20.3	23.0	10.00	-1,555.6	-71.1	1,038.6	994.8	43.76	23.733		
10,700.0	8,982.6	10,013.6	7,959.9	20.5	23.1	10.00	-1,615.6	-71.6	1,038.6	994.1	44.43	23.373		
10,735.0	8,982.7	10,048.6	7,959.9	20.6	23.1	10.00	-1,650.6	-71.9	1,038.6	993.7	44.84	23.164		
10,800.0	8,982.7	10,113.6	7,959.9	20.9	23.1	10.00	-1,715.6	-72.4	1,038.5	993.0	45.58	22.784		
10,830.0	8,982.7	10,143.6	7,959.9	21.0	23.1	10.00	-1,745.6	-72.6	1,038.5	992.6	45.93	22.610		
10,900.0	8,982.7	10,213.6	7,960.0	21.2	23.1	10.00	-1,815.6	-73.2	1,038.5	991.8	46.75	22.213		
10,925.0	8,982.7	10,238.6	7,960.0	21.4	23.1	10.00	-1,840.6	-73.4	1,038.5	991.5	47.05	22.072		
11,000.0	8,982.8	10,313.6	7,960.0	21.7	23.1	10.00	-1,915.6	-74.0	1,038.5	990.6	47.95	21.659		
11,020.0	8,982.8	10,333.6	7,960.0	21.8	23.1	9.99	-1,935.6	-74.1	1,038.5	990.3	48.19	21.550		
11,100.0	8,982.8	10,413.6	7,960.1	22.2	23.2	9.99	-2,015.6	-74.8	1,038.5	989.4	49.16	21.123		
11,115.0	8,982.8	10,428.6	7,960.1	22.2	23.2	9.99	-2,030.6	-74.9	1,038.5	989.2	49.35	21.044		
11,200.0	8,982.9	10,513.6	7,960.1	22.7	23.2	9.99	-2,115.6	-75.6	1,038.5	988.1	50.40	20.605		
11,210.0	8,982.9	10,523.6	7,960.1	22.7	23.2	9.99	-2,125.6	-75.7	1,038.5	988.0	50.52	20.554		
11,300.0	8,982.9	10,613.6	7,960.2	23.2	23.2	9.99	-2,215.6	-76.4	1,038.5	986.8	51.65	20.105		
11,305.0	8,982.9	10,618.6	7,960.2	23.2	23.2	9.99	-2,220.6	-76.4	1,038.5	986.8	51.72	20.081		
11,400.0	8,983.0	10,713.6	7,960.2	23.8	23.2	9.99	-2,315.6	-77.2	1,038.5	985.6	52.92	19.623		
11,495.0	8,983.0	10,808.6	7,960.3	24.3	23.3	9.99	-2,410.6	-77.9	1,038.5	984.3	54.14	19.180		
11,500.0	8,983.0	10,813.6	7,960.3	24.4	23.3	9.99	-2,415.6	-78.0	1,038.5	984.3	54.21	19.157		
11,590.0	8,983.1	10,903.6	7,960.3	24.9	23.8	9.99	-2,505.6	-78.7	1,038.5	983.1	55.38	18.753		
11,600.0	8,983.1	10,913.6	7,960.3	25.0	23.9	9.99	-2,515.6	-78.8	1,038.5	983.0	55.51	18.708		
11,685.0	8,983.1	10,998.6	7,960.4	25.5	24.4	9.98	-2,600.6	-79.4	1,038.5	981.8	56.62	18.340		
11,700.0	8,983.1	11,013.6	7,960.4	25.6	24.6	9.98	-2,615.6	-79.5	1,038.5	981.6	56.82	18.276		
11,780.0	8,983.1	11,093.6	7,960.4	26.1	25.1	9.98	-2,695.6	-80.2	1,038.4	980.6	57.88	17.941		
11,800.0	8,983.2	11,113.6	7,960.4	26.2	25.2	9.98	-2,715.6	-80.3	1,038.4	980.3	58.15	17.859		
11,875.0	8,983.2	11,188.6	7,960.5	26.7	25.8	9.98	-2,790.6	-80.9	1,038.4	979.3	59.15	17.556		
11,900.0	8,983.2	11,213.6	7,960.5	26.8	25.9	9.98	-2,815.6	-81.1	1,038.4	978.9	59.49	17.457		
11,970.0	8,983.2	11,283.6	7,960.5	27.3	26.4	9.98	-2,885.6	-81.7	1,038.4	978.0	60.43	17.184		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
12,000.0	8,983.2	11,313.6	7,960.5	27.5	26.6	9.98	-2,915.6	-81.9	1,038.4	977.6	60.83	17.070	
12,065.0	8,983.3	11,378.6	7,960.6	27.9	27.1	9.98	-2,980.6	-82.4	1,038.4	976.7	61.72	16.825	
12,100.0	8,983.3	11,413.6	7,960.6	28.1	27.3	9.98	-3,015.6	-82.7	1,038.4	976.2	62.19	16.697	
12,160.0	8,983.3	11,473.6	7,960.6	28.5	27.7	9.98	-3,075.6	-83.2	1,038.4	975.4	63.01	16.479	
12,200.0	8,983.3	11,513.6	7,960.6	28.8	28.0	9.98	-3,115.6	-83.5	1,038.4	974.8	63.56	16.337	
12,255.0	8,983.4	11,568.6	7,960.7	29.2	28.4	9.97	-3,170.6	-84.0	1,038.4	974.1	64.32	16.144	
12,300.0	8,983.4	11,613.6	7,960.7	29.5	28.7	9.97	-3,215.6	-84.3	1,038.4	973.5	64.94	15.990	
12,350.0	8,983.4	11,663.6	7,960.7	29.8	29.1	9.97	-3,265.6	-84.7	1,038.4	972.8	65.63	15.821	
12,400.0	8,983.4	11,713.6	7,960.7	30.1	29.4	9.97	-3,315.6	-85.1	1,038.4	972.1	66.33	15.656	
12,445.0	8,983.5	11,758.6	7,960.8	30.4	29.8	9.97	-3,360.6	-85.5	1,038.4	971.4	66.95	15.509	
12,500.0	8,983.5	11,813.6	7,960.8	30.8	30.1	9.97	-3,415.6	-85.9	1,038.4	970.7	67.72	15.333	
12,540.0	8,983.5	11,853.6	7,960.8	31.1	30.4	9.97	-3,455.6	-86.2	1,038.4	970.1	68.28	15.207	
12,600.0	8,983.5	11,913.6	7,960.8	31.5	30.9	9.97	-3,515.6	-86.7	1,038.4	969.2	69.12	15.022	
12,635.0	8,983.5	11,948.6	7,960.9	31.7	31.1	9.97	-3,550.6	-87.0	1,038.4	968.7	69.61	14.916	
12,700.0	8,983.6	12,013.6	7,960.9	32.2	31.6	9.97	-3,615.6	-87.5	1,038.3	967.8	70.53	14.722	
12,730.0	8,983.6	12,043.6	7,960.9	32.4	31.8	9.97	-3,645.6	-87.7	1,038.3	967.4	70.95	14.634	
12,800.0	8,983.6	12,113.6	7,960.9	32.9	32.3	9.97	-3,715.6	-88.3	1,038.3	966.4	71.94	14.432	
12,825.0	8,983.6	12,138.6	7,961.0	33.1	32.5	9.96	-3,740.6	-88.5	1,038.3	966.0	72.30	14.361	
12,900.0	8,983.7	12,213.6	7,961.0	33.6	33.0	9.96	-3,815.6	-89.1	1,038.3	965.0	73.37	14.153	
12,920.0	8,983.7	12,233.6	7,961.0	33.7	33.2	9.96	-3,835.6	-89.2	1,038.3	964.7	73.65	14.098	
13,000.0	8,983.7	12,313.6	7,961.1	34.3	33.7	9.96	-3,915.6	-89.9	1,038.3	963.5	74.79	13.882	
13,015.0	8,983.7	12,328.6	7,961.1	34.4	33.8	9.96	-3,930.6	-90.0	1,038.3	963.3	75.01	13.843	
13,100.0	8,983.8	12,413.6	7,961.1	35.0	34.5	9.96	-4,015.6	-90.7	1,038.3	962.1	76.23	13.621	
13,110.0	8,983.8	12,423.6	7,961.1	35.0	34.5	9.96	-4,025.6	-90.8	1,038.3	961.9	76.37	13.596	
13,200.0	8,983.8	12,513.6	7,961.2	35.7	35.2	9.96	-4,115.6	-91.5	1,038.3	960.6	77.66	13.369	
13,205.0	8,983.8	12,518.6	7,961.2	35.7	35.2	9.96	-4,120.6	-91.5	1,038.3	960.6	77.74	13.357	
13,300.0	8,983.9	12,613.6	7,961.2	36.4	35.9	9.96	-4,215.6	-92.3	1,038.3	959.2	79.11	13.125	
13,395.0	8,983.9	12,708.6	7,961.3	37.1	36.6	9.96	-4,310.6	-93.0	1,038.3	957.8	80.48	12.901	
13,400.0	8,983.9	12,713.6	7,961.3	37.1	36.6	9.96	-4,315.6	-93.1	1,038.3	957.7	80.55	12.889	
13,490.0	8,983.9	12,803.6	7,961.3	37.7	37.3	9.95	-4,405.5	-93.8	1,038.3	956.4	81.86	12.683	
13,500.0	8,983.9	12,813.6	7,961.3	37.8	37.4	9.95	-4,415.5	-93.9	1,038.3	956.3	82.01	12.661	
13,585.0	8,984.0	12,898.6	7,961.4	38.4	38.0	9.95	-4,500.5	-94.5	1,038.3	955.0	83.24	12.472	
13,600.0	8,984.0	12,913.6	7,961.4	38.5	38.1	9.95	-4,515.5	-94.6	1,038.3	954.8	83.46	12.440	
13,680.0	8,984.0	12,993.6	7,961.4	39.1	38.7	9.95	-4,595.5	-95.3	1,038.2	953.6	84.63	12.268	
13,700.0	8,984.0	13,013.6	7,961.4	39.2	38.8	9.95	-4,615.5	-95.4	1,038.2	953.3	84.92	12.226	
13,775.0	8,984.1	13,088.6	7,961.5	39.8	39.4	9.95	-4,690.5	-96.0	1,038.2	952.2	86.02	12.070	
13,800.0	8,984.1	13,113.6	7,961.5	40.0	39.6	9.95	-4,715.5	-96.2	1,038.2	951.8	86.39	12.018	
13,870.0	8,984.1	13,183.6	7,961.5	40.5	40.1	9.95	-4,785.5	-96.8	1,038.2	950.8	87.41	11.877	
13,900.0	8,984.1	13,213.6	7,961.5	40.7	40.3	9.95	-4,815.5	-97.0	1,038.2	950.4	87.85	11.817	
13,965.0	8,984.2	13,278.6	7,961.6	41.1	40.8	9.95	-4,880.5	-97.5	1,038.2	949.4	88.81	11.690	
14,000.0	8,984.2	13,313.6	7,961.6	41.4	41.0	9.95	-4,915.5	-97.8	1,038.2	948.9	89.33	11.623	
14,060.0	8,984.2	13,373.6	7,961.6	41.8	41.5	9.94	-4,975.5	-98.3	1,038.2	948.0	90.21	11.509	
14,100.0	8,984.2	13,413.6	7,961.6	42.1	41.8	9.94	-5,015.5	-98.6	1,038.2	947.4	90.80	11.434	
14,155.0	8,984.3	13,468.6	7,961.7	42.5	42.2	9.94	-5,070.5	-99.1	1,038.2	946.6	91.61	11.332	
14,200.0	8,984.3	13,513.6	7,961.7	42.8	42.5	9.94	-5,115.5	-99.4	1,038.2	945.9	92.28	11.251	
14,250.0	8,984.3	13,563.6	7,961.7	43.2	42.9	9.94	-5,165.5	-99.8	1,038.2	945.2	93.02	11.161	
14,300.0	8,984.3	13,613.6	7,961.7	43.6	43.2	9.94	-5,215.5	-100.2	1,038.2	944.4	93.76	11.073	
14,345.0	8,984.3	13,658.6	7,961.7	43.9	43.6	9.94	-5,260.5	-100.6	1,038.2	943.8	94.43	10.995	
14,400.0	8,984.4	13,713.6	7,961.8	44.3	44.0	9.94	-5,315.5	-101.0	1,038.2	942.9	95.24	10.900	
14,440.0	8,984.4	13,753.6	7,961.8	44.6	44.3	9.94	-5,355.5	-101.3	1,038.2	942.3	95.84	10.833	
14,500.0	8,984.4	13,813.6	7,961.8	45.0	44.7	9.94	-5,415.5	-101.8	1,038.2	941.4	96.73	10.733	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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 Factor		
14,535.0	8,984.4	13,848.6	7,961.8	45.3	45.0	9.94	-5,450.5	-102.1	1,038.2	940.9	97.25	10.675	
14,600.0	8,984.5	13,913.6	7,961.9	45.8	45.5	9.94	-5,515.5	-102.6	1,038.1	939.9	98.22	10.570	
14,630.0	8,984.5	13,943.6	7,961.9	46.0	45.7	9.94	-5,545.5	-102.8	1,038.1	939.5	98.66	10.522	
14,700.0	8,984.5	14,013.6	7,961.9	46.5	46.2	9.93	-5,615.5	-103.4	1,038.1	938.4	99.71	10.412	
14,725.0	8,984.5	14,038.6	7,961.9	46.7	46.4	9.93	-5,640.5	-103.6	1,038.1	938.1	100.08	10.373	
14,800.0	8,984.6	14,113.6	7,962.0	47.2	46.9	9.93	-5,715.5	-104.2	1,038.1	936.9	101.20	10.258	
14,820.0	8,984.6	14,133.6	7,962.0	47.4	47.1	9.93	-5,735.5	-104.3	1,038.1	936.6	101.50	10.228	
14,900.0	8,984.6	14,213.6	7,962.0	47.9	47.7	9.93	-5,815.5	-105.0	1,038.1	935.4	102.69	10.109	
14,915.0	8,984.6	14,228.6	7,962.0	48.1	47.8	9.93	-5,830.5	-105.1	1,038.1	935.2	102.92	10.087	
15,000.0	8,984.6	14,313.6	7,962.1	48.7	48.4	9.93	-5,915.5	-105.8	1,038.1	933.9	104.19	9.963	
15,010.0	8,984.7	14,323.6	7,962.1	48.8	48.5	9.93	-5,925.5	-105.9	1,038.1	933.8	104.34	9.949	
15,100.0	8,984.7	14,413.6	7,962.1	49.4	49.2	9.93	-6,015.5	-106.6	1,038.1	932.4	105.69	9.822	
15,105.0	8,984.7	14,418.6	7,962.1	49.5	49.2	9.93	-6,020.5	-106.6	1,038.1	932.3	105.77	9.815	
15,200.0	8,984.7	14,513.6	7,962.2	50.2	49.9	9.93	-6,115.5	-107.4	1,038.1	930.9	107.19	9.684	
15,295.0	8,984.8	14,608.6	7,962.2	50.9	50.6	9.92	-6,210.5	-108.1	1,038.1	929.5	108.62	9.557	
15,300.0	8,984.8	14,613.6	7,962.2	50.9	50.7	9.92	-6,215.5	-108.2	1,038.1	929.4	108.70	9.550	
15,390.0	8,984.8	14,703.6	7,962.3	51.6	51.3	9.92	-6,305.5	-108.9	1,038.1	928.0	110.05	9.433	
15,400.0	8,984.8	14,713.6	7,962.3	51.6	51.4	9.92	-6,315.5	-109.0	1,038.1	927.9	110.20	9.420	
15,485.0	8,984.9	14,798.6	7,962.3	52.3	52.0	9.92	-6,400.5	-109.6	1,038.1	926.6	111.48	9.311	
15,500.0	8,984.9	14,813.6	7,962.3	52.4	52.2	9.92	-6,415.5	-109.7	1,038.1	926.3	111.71	9.293	
15,580.0	8,984.9	14,893.6	7,962.4	53.0	52.8	9.92	-6,495.5	-110.4	1,038.0	925.1	112.92	9.193	
15,600.0	8,984.9	14,913.6	7,962.4	53.1	52.9	9.92	-6,515.5	-110.5	1,038.0	924.8	113.22	9.169	
15,675.0	8,985.0	14,988.6	7,962.4	53.7	53.5	9.92	-6,590.5	-111.1	1,038.0	923.7	114.35	9.078	
15,700.0	8,985.0	15,013.6	7,962.5	53.8	53.7	9.92	-6,615.5	-111.3	1,038.0	923.3	114.73	9.048	
15,770.0	8,985.0	15,083.6	7,962.5	54.4	54.2	9.92	-6,685.5	-111.9	1,038.0	922.2	115.79	8.965	
15,800.0	8,985.0	15,113.6	7,962.5	54.6	54.4	9.92	-6,715.5	-112.1	1,038.0	921.8	116.24	8.930	
15,865.0	8,985.1	15,178.6	7,962.5	55.1	54.9	9.91	-6,780.5	-112.6	1,038.0	920.8	117.22	8.855	
15,900.0	8,985.1	15,213.6	7,962.6	55.3	55.2	9.91	-6,815.5	-112.9	1,038.0	920.3	117.75	8.815	
15,960.0	8,985.1	15,273.6	7,962.6	55.8	55.6	9.91	-6,875.5	-113.4	1,038.0	919.3	118.66	8.748	
16,000.0	8,985.1	15,313.6	7,962.6	56.1	55.9	9.91	-6,915.5	-113.7	1,038.0	918.7	119.27	8.703	
16,055.0	8,985.1	15,368.6	7,962.6	56.5	56.3	9.91	-6,970.5	-114.2	1,038.0	917.9	120.10	8.643	
16,100.0	8,985.2	15,413.6	7,962.7	56.8	56.7	9.91	-7,015.5	-114.5	1,038.0	917.2	120.78	8.594	
16,150.0	8,985.2	15,463.6	7,962.7	57.2	57.0	9.91	-7,065.5	-114.9	1,038.0	916.4	121.54	8.540	
16,200.0	8,985.2	15,513.6	7,962.7	57.6	57.4	9.91	-7,115.5	-115.3	1,038.0	915.7	122.30	8.487	
16,245.0	8,985.2	15,558.6	7,962.7	57.9	57.7	9.91	-7,160.5	-115.7	1,038.0	915.0	122.98	8.440	
16,300.0	8,985.3	15,613.6	7,962.8	58.3	58.2	9.91	-7,215.5	-116.1	1,038.0	914.2	123.82	8.383	
16,340.0	8,985.3	15,653.6	7,962.8	58.6	58.5	9.91	-7,255.5	-116.4	1,038.0	913.5	124.43	8.342	
16,400.0	8,985.3	15,713.6	7,962.8	59.0	58.9	9.91	-7,315.5	-116.9	1,038.0	912.6	125.34	8.281	
16,435.0	8,985.3	15,748.6	7,962.8	59.3	59.2	9.91	-7,350.5	-117.2	1,038.0	912.1	125.87	8.246	
16,500.0	8,985.3	15,813.6	7,962.9	59.8	59.7	9.90	-7,415.5	-117.7	1,037.9	911.1	126.86	8.182	
16,530.0	8,985.4	15,843.6	7,962.9	60.0	59.9	9.90	-7,445.5	-117.9	1,037.9	910.6	127.32	8.153	
16,600.0	8,985.4	15,913.6	7,962.9	60.5	60.4	9.90	-7,515.5	-118.5	1,037.9	909.6	128.38	8.085	
16,625.0	8,985.4	15,938.6	7,962.9	60.7	60.6	9.90	-7,540.4	-118.7	1,037.9	909.2	128.76	8.061	
16,700.0	8,985.4	16,013.6	7,963.0	61.3	61.2	9.90	-7,615.4	-119.3	1,037.9	908.0	129.90	7.990	
16,720.0	8,985.5	16,033.6	7,963.0	61.4	61.3	9.90	-7,635.4	-119.4	1,037.9	907.7	130.21	7.971	
16,800.0	8,985.5	16,113.6	7,963.0	62.0	61.9	9.90	-7,715.4	-120.1	1,037.9	906.5	131.43	7.897	
16,815.0	8,985.5	16,128.6	7,963.0	62.1	62.0	9.90	-7,730.4	-120.2	1,037.9	906.3	131.66	7.883	
16,900.0	8,985.5	16,213.6	7,963.1	62.8	62.7	9.90	-7,815.4	-120.9	1,037.9	905.0	132.95	7.807	
16,910.0	8,985.5	16,223.6	7,963.1	62.8	62.7	9.90	-7,825.4	-121.0	1,037.9	904.8	133.11	7.798	
17,000.0	8,985.6	16,313.6	7,963.1	63.5	63.4	9.90	-7,915.4	-121.7	1,037.9	903.4	134.48	7.718	
17,005.0	8,985.6	16,318.6	7,963.1	63.6	63.4	9.90	-7,920.4	-121.7	1,037.9	903.3	134.56	7.713	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside	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)		
17,100.0	8,985.6	16,413.6	7,963.2	64.3	64.2	9.89	-8,015.4	-122.5	1,037.9	901.9	136.01	7.631	
17,195.0	8,985.7	16,508.6	7,963.2	65.0	64.9	9.89	-8,110.4	-123.2	1,037.9	900.4	137.46	7.550	
17,200.0	8,985.7	16,513.6	7,963.2	65.0	64.9	9.89	-8,115.4	-123.3	1,037.9	900.3	137.54	7.546	
17,290.0	8,985.7	16,603.6	7,963.3	65.7	65.6	9.89	-8,205.4	-124.0	1,037.9	899.0	138.91	7.471	
17,300.0	8,985.7	16,613.6	7,963.3	65.8	65.7	9.89	-8,215.4	-124.1	1,037.9	898.8	139.06	7.463	
17,385.0	8,985.8	16,698.6	7,963.3	66.4	66.3	9.89	-8,300.4	-124.7	1,037.9	897.5	140.36	7.394	
17,400.0	8,985.8	16,713.6	7,963.3	66.5	66.4	9.89	-8,315.4	-124.8	1,037.9	897.3	140.59	7.382	
17,480.0	8,985.8	16,793.6	7,963.4	67.1	67.0	9.89	-8,395.4	-125.5	1,037.8	896.0	141.82	7.318	
17,500.0	8,985.8	16,813.6	7,963.4	67.3	67.2	9.89	-8,415.4	-125.6	1,037.8	895.7	142.12	7.302	
17,575.0	8,985.8	16,888.6	7,963.4	67.8	67.7	9.89	-8,490.4	-126.2	1,037.8	894.6	143.27	7.244	
17,600.0	8,985.9	16,913.6	7,963.4	68.0	67.9	9.89	-8,515.4	-126.4	1,037.8	894.2	143.66	7.224	
17,670.0	8,985.9	16,983.6	7,963.5	68.5	68.5	9.88	-8,585.4	-127.0	1,037.8	893.1	144.73	7.171	
17,700.0	8,985.9	17,013.6	7,963.5	68.8	68.7	9.88	-8,615.4	-127.2	1,037.8	892.6	145.19	7.148	
17,765.0	8,985.9	17,078.6	7,963.5	69.2	69.2	9.88	-8,680.4	-127.7	1,037.8	891.6	146.18	7.099	
17,800.0	8,986.0	17,113.6	7,963.5	69.5	69.4	9.88	-8,715.4	-128.0	1,037.8	891.1	146.72	7.073	
17,860.0	8,986.0	17,173.6	7,963.6	70.0	69.9	9.88	-8,775.4	-128.5	1,037.8	890.2	147.64	7.029	
17,900.0	8,986.0	17,213.6	7,963.6	70.3	70.2	9.88	-8,815.4	-128.8	1,037.8	889.5	148.26	7.000	
17,955.0	8,986.0	17,268.6	7,963.6	70.7	70.6	9.88	-8,870.4	-129.3	1,037.8	888.7	149.10	6.960	
18,000.0	8,986.0	17,313.6	7,963.6	71.0	70.9	9.88	-8,915.4	-129.6	1,037.8	888.0	149.79	6.928	
18,050.0	8,986.1	17,363.6	7,963.7	71.4	71.3	9.88	-8,965.4	-130.0	1,037.8	887.2	150.56	6.893	
18,100.0	8,986.1	17,413.6	7,963.7	71.8	71.7	9.88	-9,015.4	-130.4	1,037.8	886.5	151.32	6.858	
18,145.0	8,986.1	17,458.6	7,963.7	72.1	72.0	9.88	-9,060.4	-130.8	1,037.8	885.8	152.02	6.827	
18,200.0	8,986.1	17,513.6	7,963.7	72.5	72.5	9.88	-9,115.4	-131.2	1,037.8	884.9	152.86	6.789	
18,240.0	8,986.2	17,553.6	7,963.8	72.8	72.8	9.88	-9,155.4	-131.5	1,037.8	884.3	153.48	6.762	
18,300.0	8,986.2	17,613.6	7,963.8	73.3	73.2	9.87	-9,215.4	-132.0	1,037.8	883.4	154.40	6.721	
18,335.0	8,986.2	17,648.6	7,963.8	73.5	73.5	9.87	-9,250.4	-132.3	1,037.8	882.8	154.93	6.698	
18,400.0	8,986.2	17,713.6	7,963.9	74.0	74.0	9.87	-9,315.4	-132.8	1,037.8	881.8	155.93	6.655	
18,430.0	8,986.2	17,743.6	7,963.9	74.2	74.2	9.87	-9,345.4	-133.0	1,037.7	881.4	156.40	6.635	
18,500.0	8,986.3	17,813.6	7,963.9	74.8	74.7	9.87	-9,415.4	-133.6	1,037.7	880.3	157.47	6.590	
18,525.0	8,986.3	17,838.6	7,963.9	74.9	74.9	9.87	-9,440.4	-133.8	1,037.7	879.9	157.86	6.574	
18,600.0	8,986.3	17,913.6	7,964.0	75.5	75.5	9.87	-9,515.4	-134.4	1,037.7	878.7	159.01	6.526	
18,620.0	8,986.3	17,933.6	7,964.0	75.7	75.6	9.87	-9,535.4	-134.5	1,037.7	878.4	159.32	6.514	
18,700.0	8,986.4	18,013.6	7,964.0	76.3	76.2	9.87	-9,615.4	-135.2	1,037.7	877.2	160.55	6.464	
18,715.0	8,986.4	18,028.6	7,964.0	76.4	76.4	9.87	-9,630.4	-135.3	1,037.7	876.9	160.78	6.454	
18,800.0	8,986.4	18,113.6	7,964.1	77.0	77.0	9.87	-9,715.4	-136.0	1,037.7	875.6	162.09	6.402	
18,810.0	8,986.4	18,123.6	7,964.1	77.1	77.1	9.87	-9,725.4	-136.1	1,037.7	875.5	162.24	6.396	
18,900.0	8,986.5	18,213.6	7,964.1	77.8	77.8	9.86	-9,815.4	-136.8	1,037.7	874.1	163.63	6.342	
18,905.0	8,986.5	18,218.6	7,964.1	77.8	77.8	9.86	-9,820.4	-136.8	1,037.7	874.0	163.71	6.339	
19,000.0	8,986.5	18,313.6	7,964.2	78.5	78.5	9.86	-9,915.4	-137.6	1,037.7	872.5	165.17	6.283	
19,095.0	8,986.6	18,408.6	7,964.2	79.2	79.2	9.86	-10,010.4	-138.3	1,037.7	871.0	166.63	6.227	
19,100.0	8,986.6	18,413.6	7,964.2	79.3	79.3	9.86	-10,015.4	-138.4	1,037.7	871.0	166.71	6.224	
19,190.0	8,986.6	18,503.6	7,964.3	80.0	79.9	9.86	-10,105.4	-139.1	1,037.7	869.6	168.10	6.173	
19,200.0	8,986.6	18,513.6	7,964.3	80.0	80.0	9.86	-10,115.4	-139.2	1,037.7	869.4	168.25	6.167	
19,285.0	8,986.6	18,598.6	7,964.3	80.7	80.7	9.86	-10,200.4	-139.8	1,037.7	868.1	169.56	6.120	
19,300.0	8,986.7	18,613.6	7,964.3	80.8	80.8	9.86	-10,215.4	-139.9	1,037.7	867.9	169.79	6.111	
19,380.0	8,986.7	18,693.6	7,964.4	81.4	81.4	9.86	-10,295.4	-140.6	1,037.6	866.6	171.03	6.067	
19,400.0	8,986.7	18,713.6	7,964.4	81.5	81.5	9.86	-10,315.4	-140.7	1,037.6	866.3	171.34	6.056	
19,475.0	8,986.7	18,788.6	7,964.4	82.1	82.1	9.85	-10,390.4	-141.3	1,037.6	865.1	172.49	6.016	
19,500.0	8,986.7	18,813.6	7,964.4	82.3	82.3	9.85	-10,415.4	-141.5	1,037.6	864.8	172.88	6.002	
19,570.0	8,986.8	18,883.6	7,964.5	82.8	82.8	9.85	-10,485.4	-142.1	1,037.6	863.7	173.96	5.965	
19,600.0	8,986.8	18,913.6	7,964.5	83.0	83.0	9.85	-10,515.4	-142.3	1,037.6	863.2	174.42	5.949	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance				
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation		Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor		
									(usft)	(usft)	(usft)			
19,665.0	8,986.8	18,978.6	7,964.5	83.5	83.5	9.85	-10,580.4	-142.8	1,037.6	862.2	175.43	5.915		
19,700.0	8,986.8	19,013.6	7,964.5	83.8	83.8	9.85	-10,615.4	-143.1	1,037.6	861.6	175.97	5.897		
19,760.0	8,986.9	19,073.6	7,964.6	84.3	84.3	9.85	-10,675.3	-143.6	1,037.6	860.7	176.89	5.866		
19,800.0	8,986.9	19,113.6	7,964.6	84.6	84.6	9.85	-10,715.3	-143.9	1,037.6	860.1	177.51	5.845		
19,855.0	8,986.9	19,168.6	7,964.6	85.0	85.0	9.85	-10,770.3	-144.4	1,037.6	859.2	178.36	5.817		
19,900.0	8,986.9	19,213.6	7,964.6	85.3	85.3	9.85	-10,815.3	-144.7	1,037.6	858.5	179.05	5.795		
19,950.0	8,987.0	19,263.6	7,964.7	85.7	85.7	9.85	-10,865.3	-145.1	1,037.6	857.8	179.83	5.770		
20,000.0	8,987.0	19,313.6	7,964.7	86.1	86.1	9.85	-10,915.3	-145.5	1,037.6	857.0	180.60	5.745		
20,045.0	8,987.0	19,358.6	7,964.7	86.4	86.4	9.85	-10,960.3	-145.9	1,037.6	856.3	181.30	5.723		
20,100.0	8,987.0	19,413.6	7,964.7	86.8	86.8	9.84	-11,015.3	-146.3	1,037.6	855.4	182.15	5.696		
20,140.0	8,987.0	19,453.6	7,964.8	87.1	87.1	9.84	-11,055.3	-146.6	1,037.6	854.8	182.76	5.677		
20,200.0	8,987.1	19,513.6	7,964.8	87.6	87.6	9.84	-11,115.3	-147.1	1,037.6	853.9	183.69	5.648		
20,235.0	8,987.1	19,548.6	7,964.8	87.8	87.9	9.84	-11,150.3	-147.4	1,037.6	853.3	184.23	5.632		
20,300.0	8,987.1	19,613.6	7,964.8	88.3	88.4	9.84	-11,215.3	-147.9	1,037.6	852.3	185.24	5.601		
20,330.0	8,987.1	19,643.6	7,964.9	88.6	88.6	9.84	-11,245.3	-148.1	1,037.5	851.8	185.70	5.587		
20,400.0	8,987.2	19,713.6	7,964.9	89.1	89.1	9.84	-11,315.3	-148.7	1,037.5	850.8	186.78	5.555		
20,425.0	8,987.2	19,738.6	7,964.9	89.3	89.3	9.84	-11,340.3	-148.9	1,037.5	850.4	187.17	5.543		
20,500.0	8,987.2	19,813.6	7,964.9	89.8	89.9	9.84	-11,415.3	-149.5	1,037.5	849.2	188.33	5.509		
20,520.0	8,987.2	19,833.6	7,965.0	90.0	90.0	9.84	-11,435.3	-149.6	1,037.5	848.9	188.64	5.500		
20,600.0	8,987.3	19,913.6	7,965.0	90.6	90.6	9.84	-11,515.3	-150.3	1,037.5	847.6	189.88	5.464		
20,615.0	8,987.3	19,928.6	7,965.0	90.7	90.7	9.84	-11,530.3	-150.4	1,037.5	847.4	190.11	5.457		
20,700.0	8,987.3	20,013.6	7,965.0	91.4	91.4	9.83	-11,615.3	-151.1	1,037.5	846.1	191.43	5.420		
20,710.0	8,987.3	20,023.6	7,965.1	91.4	91.5	9.83	-11,625.3	-151.2	1,037.5	845.9	191.58	5.416		
20,800.0	8,987.4	20,113.6	7,965.1	92.1	92.1	9.83	-11,715.3	-151.9	1,037.5	844.5	192.97	5.376		
20,805.0	8,987.4	20,118.6	7,965.1	92.1	92.2	9.83	-11,720.3	-151.9	1,037.5	844.4	193.05	5.374		
20,900.0	8,987.4	20,213.6	7,965.2	92.9	92.9	9.83	-11,815.3	-152.7	1,037.5	843.0	194.52	5.334		
20,995.0	8,987.4	20,308.6	7,965.2	93.6	93.6	9.83	-11,910.3	-153.4	1,037.5	841.5	195.99	5.293		
21,000.0	8,987.4	20,313.6	7,965.2	93.6	93.7	9.83	-11,915.3	-153.5	1,037.5	841.4	196.07	5.291		
21,090.0	8,987.5	20,403.6	7,965.2	94.3	94.3	9.83	-12,005.3	-154.2	1,037.5	840.0	197.46	5.254		
21,100.0	8,987.5	20,413.6	7,965.3	94.4	94.4	9.83	-12,015.3	-154.3	1,037.5	839.8	197.62	5.250		
21,185.0	8,987.5	20,498.6	7,965.3	95.0	95.1	9.83	-12,100.3	-154.9	1,037.5	838.5	198.94	5.215		
21,200.0	8,987.5	20,513.6	7,965.3	95.1	95.2	9.83	-12,115.3	-155.0	1,037.5	838.3	199.17	5.209		
21,280.0	8,987.6	20,593.6	7,965.3	95.7	95.8	9.82	-12,195.3	-155.7	1,037.4	837.0	200.41	5.177		
21,300.0	8,987.6	20,613.6	7,965.4	95.9	95.9	9.82	-12,215.3	-155.8	1,037.4	836.7	200.72	5.169		
21,375.0	8,987.6	20,688.6	7,965.4	96.5	96.5	9.82	-12,290.3	-156.4	1,037.4	835.6	201.88	5.139		
21,400.0	8,987.6	20,713.6	7,965.4	96.6	96.7	9.82	-12,315.3	-156.6	1,037.4	835.2	202.27	5.129		
21,470.0	8,987.7	20,783.6	7,965.4	97.2	97.2	9.82	-12,385.3	-157.2	1,037.4	834.1	203.35	5.102		
21,500.0	8,987.7	20,813.6	7,965.5	97.4	97.5	9.82	-12,415.3	-157.4	1,037.4	833.6	203.82	5.090		
21,565.0	8,987.7	20,878.6	7,965.5	97.9	98.0	9.82	-12,480.3	-157.9	1,037.4	832.6	204.83	5.065		
21,600.0	8,987.7	20,913.6	7,965.5	98.2	98.2	9.82	-12,515.3	-158.2	1,037.4	832.0	205.37	5.052		
21,660.0	8,987.8	20,973.6	7,965.5	98.6	98.7	9.82	-12,575.3	-158.7	1,037.4	831.1	206.30	5.029		
21,700.0	8,987.8	21,013.6	7,965.6	98.9	99.0	9.82	-12,615.3	-159.0	1,037.4	830.5	206.92	5.014		
21,755.0	8,987.8	21,068.6	7,965.6	99.3	99.4	9.82	-12,670.3	-159.5	1,037.4	829.6	207.77	4.993		
21,800.0	8,987.8	21,113.6	7,965.6	99.7	99.7	9.82	-12,715.3	-159.8	1,037.4	828.9	208.47	4.976		
21,850.0	8,987.8	21,163.6	7,965.6	100.1	100.1	9.82	-12,765.3	-160.2	1,037.4	828.1	209.24	4.958		
21,900.0	8,987.9	21,213.6	7,965.7	100.4	100.5	9.81	-12,815.3	-160.6	1,037.4	827.4	210.02	4.939		
21,945.0	8,987.9	21,258.6	7,965.7	100.8	100.8	9.81	-12,860.3	-161.0	1,037.4	826.7	210.72	4.923		
22,000.0	8,987.9	21,313.6	7,965.7	101.2	101.3	9.81	-12,915.3	-161.4	1,037.4	825.8	211.57	4.903		
22,040.0	8,987.9	21,353.6	7,965.7	101.5	101.6	9.81	-12,955.3	-161.7	1,037.4	825.2	212.19	4.889		
22,100.0	8,988.0	21,413.6	7,965.8	102.0	102.0	9.81	-13,015.3	-162.2	1,037.4	824.2	213.12	4.867		
22,135.0	8,988.0	21,448.6	7,965.8	102.2	102.3	9.81	-13,050.3	-162.5	1,037.4	823.7	213.67	4.855		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 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		
22,200.0	8,988.0	21,513.6	7,965.8	102.7	102.8	9.81	-13,115.3	-163.0	1,037.4	822.7	214.67	4.832		
22,230.0	8,988.0	21,543.6	7,965.8	102.9	103.0	9.81	-13,145.3	-163.2	1,037.3	822.2	215.14	4.822		
22,300.0	8,988.1	21,613.6	7,965.9	103.5	103.5	9.81	-13,215.3	-163.8	1,037.3	821.1	216.23	4.797		
22,325.0	8,988.1	21,638.6	7,965.9	103.7	103.7	9.81	-13,240.3	-164.0	1,037.3	820.7	216.61	4.789		
22,400.0	8,988.1	21,713.6	7,965.9	104.2	104.3	9.81	-13,315.3	-164.6	1,037.3	819.6	217.78	4.763		
22,420.0	8,988.1	21,733.6	7,965.9	104.4	104.4	9.81	-13,335.3	-164.7	1,037.3	819.2	218.09	4.756		
22,500.0	8,988.1	21,813.6	7,966.0	105.0	105.1	9.80	-13,415.3	-165.4	1,037.3	818.0	219.33	4.729		
22,515.0	8,988.2	21,828.6	7,966.0	105.1	105.2	9.80	-13,430.3	-165.5	1,037.3	817.8	219.56	4.724		
22,600.0	8,988.2	21,913.6	7,966.0	105.7	105.8	9.80	-13,515.3	-166.2	1,037.3	816.4	220.88	4.696		
22,610.0	8,988.2	21,923.6	7,966.0	105.8	105.9	9.80	-13,525.3	-166.3	1,037.3	816.3	221.04	4.693		
22,700.0	8,988.2	22,013.6	7,966.1	106.5	106.6	9.80	-13,615.3	-167.0	1,037.3	814.9	222.44	4.663		
22,705.0	8,988.2	22,018.6	7,966.1	106.5	106.6	9.80	-13,620.3	-167.0	1,037.3	814.8	222.51	4.662		
22,800.0	8,988.3	22,113.6	7,966.1	107.3	107.3	9.80	-13,715.3	-167.8	1,037.3	813.3	223.99	4.631		
22,895.0	8,988.3	22,208.6	7,966.2	108.0	108.1	9.80	-13,810.3	-168.5	1,037.3	811.8	225.47	4.601		
22,900.0	8,988.3	22,213.6	7,966.2	108.0	108.1	9.80	-13,815.3	-168.6	1,037.3	811.7	225.54	4.599		
22,990.0	8,988.4	22,303.6	7,966.2	108.7	108.8	9.80	-13,905.2	-169.3	1,037.3	810.3	226.94	4.571		
23,000.0	8,988.4	22,313.6	7,966.2	108.8	108.9	9.80	-13,915.2	-169.4	1,037.3	810.2	227.10	4.568		
23,085.0	8,988.4	22,398.6	7,966.3	109.4	109.5	9.80	-14,000.2	-170.0	1,037.3	808.8	228.42	4.541		
23,100.0	8,988.4	22,413.6	7,966.3	109.5	109.6	9.79	-14,015.2	-170.1	1,037.3	808.6	228.65	4.536		
23,180.0	8,988.5	22,493.6	7,966.3	110.1	110.2	9.79	-14,095.2	-170.8	1,037.2	807.4	229.89	4.512		
23,200.0	8,988.5	22,513.6	7,966.3	110.3	110.4	9.79	-14,115.2	-170.9	1,037.2	807.0	230.21	4.506		
23,275.0	8,988.5	22,588.6	7,966.4	110.9	110.9	9.79	-14,190.2	-171.5	1,037.2	805.9	231.37	4.483		
23,300.0	8,988.5	22,613.6	7,966.4	111.0	111.1	9.79	-14,215.2	-171.7	1,037.2	805.5	231.76	4.475		
23,370.0	8,988.6	22,683.6	7,966.4	111.6	111.7	9.79	-14,285.2	-172.3	1,037.2	804.4	232.85	4.455		
23,400.0	8,988.6	22,713.6	7,966.4	111.8	111.9	9.79	-14,315.2	-172.5	1,037.2	803.9	233.31	4.446		
23,465.0	8,988.6	22,778.6	7,966.5	112.3	112.4	9.79	-14,380.2	-173.0	1,037.2	802.9	234.32	4.426		
23,500.0	8,988.6	22,813.6	7,966.5	112.6	112.7	9.79	-14,415.2	-173.3	1,037.2	802.3	234.87	4.416		
23,560.0	8,988.6	22,873.6	7,966.5	113.0	113.1	9.79	-14,475.2	-173.8	1,037.2	801.4	235.80	4.399		
23,600.0	8,988.7	22,913.6	7,966.6	113.3	113.4	9.79	-14,515.2	-174.1	1,037.2	800.8	236.42	4.387		
23,655.0	8,988.7	22,968.6	7,966.6	113.7	113.8	9.79	-14,570.2	-174.6	1,037.2	799.9	237.28	4.371		
23,700.0	8,988.7	23,013.6	7,966.6	114.1	114.2	9.78	-14,615.2	-174.9	1,037.2	799.2	237.98	4.358		
23,750.0	8,988.7	23,063.6	7,966.6	114.5	114.6	9.78	-14,665.2	-175.3	1,037.2	798.4	238.76	4.344		
23,800.0	8,988.8	23,113.6	7,966.7	114.8	114.9	9.78	-14,715.2	-175.7	1,037.2	797.7	239.53	4.330		
23,845.0	8,988.8	23,158.6	7,966.7	115.2	115.3	9.78	-14,760.2	-176.1	1,037.2	796.9	240.23	4.317		
23,900.0	8,988.8	23,213.6	7,966.7	115.6	115.7	9.78	-14,815.2	-176.5	1,037.2	796.1	241.09	4.302		
23,940.0	8,988.8	23,253.6	7,966.7	115.9	116.0	9.78	-14,855.2	-176.8	1,037.2	795.5	241.71	4.291		
24,000.0	8,988.8	23,313.6	7,966.8	116.4	116.5	9.78	-14,915.2	-177.3	1,037.2	794.5	242.64	4.274		
24,035.0	8,988.9	23,348.6	7,966.8	116.6	116.7	9.78	-14,950.2	-177.6	1,037.2	794.0	243.19	4.265		
24,100.0	8,988.9	23,413.6	7,966.8	117.1	117.2	9.78	-15,015.2	-178.1	1,037.2	793.0	244.20	4.247		
24,130.0	8,988.9	23,443.6	7,966.8	117.3	117.4	9.78	-15,045.2	-178.3	1,037.2	792.5	244.67	4.239		
24,190.8	8,988.9	23,504.4	7,966.9	117.8	117.9	9.78	-15,106.0	-178.8	1,037.1	791.5	245.61	4.223		
24,200.0	8,988.9	23,513.6	7,966.9	117.9	118.0	9.78	-15,115.2	-178.9	1,037.1	791.4	245.75	4.220		
24,225.0	8,989.0	23,538.6	7,966.9	118.1	118.2	9.78	-15,140.2	-179.1	1,037.1	791.0	246.14	4.214		
24,300.0	8,989.0	23,613.6	7,966.9	118.6	118.7	9.77	-15,215.2	-179.7	1,037.1	789.8	247.31	4.194		
24,320.0	8,989.0	23,633.6	7,966.9	118.8	118.9	9.77	-15,235.2	-179.8	1,037.1	789.5	247.62	4.188		
24,320.8	8,989.0	23,634.4	7,966.9	118.8	118.9	9.77	-15,236.0	-179.8	1,037.1	789.5	247.63	4.188 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 #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.1	0.1	3.0	3.0	89.05	0.5	30.0	30.0					
95.0	95.0	95.1	95.1	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.971		
100.0	100.0	100.1	100.1	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.967		
190.0	190.0	190.1	190.1	3.1	3.1	89.05	0.5	30.0	30.0	23.8	6.25	4.799		
200.0	200.0	200.1	200.1	3.1	3.1	89.05	0.5	30.0	30.0	23.7	6.29	4.773		
285.0	285.0	285.1	285.1	3.3	3.3	89.05	0.5	30.0	30.0	23.5	6.48	4.628		
300.0	300.0	300.1	300.1	3.3	3.3	89.05	0.5	30.0	30.0	23.5	6.52	4.600		
380.0	380.0	380.1	380.1	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.70	4.477		
400.0	400.0	400.1	400.1	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.75	4.445		
475.0	475.0	475.1	475.1	3.5	3.5	89.05	0.5	30.0	30.0	23.1	6.91	4.340		
500.0	500.0	500.1	500.1	3.5	3.5	89.05	0.5	30.0	30.0	23.0	6.97	4.304		
570.0	570.0	570.1	570.1	3.6	3.6	89.05	0.5	30.0	30.0	22.9	7.12	4.215		
600.0	600.0	600.1	600.1	3.6	3.6	89.05	0.5	30.0	30.0	22.8	7.18	4.176		
665.0	665.0	665.1	665.1	3.7	3.7	89.05	0.5	30.0	30.0	22.7	7.32	4.100		
700.0	700.0	700.1	700.1	3.8	3.8	89.05	0.5	30.0	30.0	22.6	7.39	4.059		
760.0	760.0	760.1	760.1	3.8	3.8	89.05	0.5	30.0	30.0	22.5	7.51	3.994		
800.0	800.0	800.1	800.1	3.9	3.9	89.05	0.5	30.0	30.0	22.4	7.59	3.951		
855.0	855.0	855.1	855.1	4.0	4.0	89.05	0.5	30.0	30.0	22.3	7.70	3.896		
900.0	900.0	900.1	900.1	4.0	4.0	89.05	0.5	30.0	30.0	22.2	7.79	3.851		
950.0	950.0	950.1	950.1	4.1	4.1	89.05	0.5	30.0	30.0	22.1	7.89	3.805		
1,000.0	1,000.0	1,000.1	1,000.1	4.1	4.1	89.05	0.5	30.0	30.0	22.0	7.98	3.759		
1,045.0	1,045.0	1,045.1	1,045.1	4.2	4.2	89.05	0.5	30.0	30.0	21.9	8.07	3.720		
1,100.0	1,100.0	1,100.1	1,100.1	4.2	4.2	89.05	0.5	30.0	30.0	21.8	8.17	3.673		
1,140.0	1,140.0	1,140.1	1,140.1	4.3	4.3	89.05	0.5	30.0	30.0	21.8	8.24	3.640		
1,200.0	1,200.0	1,200.1	1,200.1	4.4	4.4	89.05	0.5	30.0	30.0	21.7	8.35	3.592		
1,235.0	1,235.0	1,235.1	1,235.1	4.4	4.4	89.05	0.5	30.0	30.0	21.6	8.42	3.566		
1,300.0	1,300.0	1,300.1	1,300.1	4.5	4.5	89.05	0.5	30.0	30.0	21.5	8.53	3.517		
1,330.0	1,330.0	1,330.1	1,330.1	4.5	4.5	89.05	0.5	30.0	30.0	21.4	8.58	3.495		
1,400.0	1,400.0	1,400.1	1,400.1	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.71	3.446		
1,425.0	1,425.0	1,425.1	1,425.1	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.75	3.429		
1,437.5	1,437.5	1,437.6	1,437.6	4.6	4.6	89.05	0.5	30.0	30.0	21.2	8.77	3.421 CC		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.05	0.5	30.0	30.0	21.1	8.88	3.379		
1,520.0	1,520.0	1,519.9	1,519.9	4.8	4.7	68.22	0.5	30.1	30.0	21.1	8.93	3.364 ES		
1,600.0	1,600.0	1,599.2	1,599.2	4.9	4.9	69.43	1.4	31.4	30.8	21.7	9.13	3.376		
1,615.0	1,615.0	1,614.1	1,614.0	5.0	4.9	69.82	1.7	31.9	31.1	21.9	9.19	3.384		
1,700.0	1,699.8	1,698.3	1,698.1	5.2	5.1	72.83	4.3	35.7	33.4	23.8	9.52	3.505		
1,710.0	1,709.8	1,708.2	1,708.0	5.2	5.1	73.25	4.7	36.3	33.7	24.2	9.56	3.528		
1,800.0	1,799.5	1,797.2	1,796.6	5.4	5.3	77.43	9.0	42.9	37.8	27.9	9.89	3.824		
1,805.0	1,804.4	1,802.1	1,801.6	5.5	5.3	77.67	9.2	43.3	38.1	28.2	9.90	3.847		
1,850.0	1,849.1	1,846.5	1,845.7	5.5	5.5	79.86	12.0	47.5	40.8	30.8	10.02	4.073		
1,900.0	1,898.8	1,895.9	1,894.6	5.6	5.6	81.77	15.5	52.8	44.4	34.3	10.15	4.374		
1,995.0	1,993.0	1,989.4	1,987.0	5.8	5.9	82.73	23.4	64.8	52.9	42.4	10.51	5.037		
2,000.0	1,998.0	1,994.3	1,991.9	5.8	5.9	82.70	23.9	65.5	53.4	42.9	10.53	5.076		
2,090.0	2,087.3	2,082.5	2,078.5	6.1	6.2	81.37	32.9	79.3	63.6	52.7	10.89	5.838		
2,100.0	2,097.3	2,092.3	2,088.1	6.1	6.3	81.14	34.0	81.0	64.8	53.9	10.93	5.929		
2,185.0	2,181.6	2,175.0	2,168.8	6.3	6.6	78.80	44.0	96.1	76.4	65.1	11.31	6.758		
2,200.0	2,196.5	2,189.5	2,182.9	6.4	6.6	78.34	45.9	99.0	78.7	67.3	11.38	6.914		
2,280.0	2,275.9	2,268.3	2,259.3	6.6	6.9	76.02	56.3	114.9	91.0	79.3	11.76	7.744		
2,300.0	2,295.8	2,288.0	2,278.5	6.6	6.9	75.53	59.0	118.9	94.2	82.3	11.85	7.945		
2,375.0	2,370.2	2,362.0	2,350.3	6.9	7.2	73.96	68.8	133.8	105.9	93.7	12.22	8.665		
2,400.0	2,395.0	2,386.7	2,374.2	6.9	7.2	73.51	72.1	138.8	109.8	97.5	12.35	8.896		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,470.0	2,464.5	2,455.8	2,441.3	7.2	7.5	72.41	81.3	152.8	120.9	108.2	12.71	9.514		
2,500.0	2,494.3	2,485.4	2,470.0	7.3	7.6	72.00	85.2	158.8	125.6	112.8	12.86	9.768		
2,565.0	2,558.8	2,549.6	2,532.2	7.5	7.8	71.20	93.7	171.7	135.9	122.7	13.20	10.295		
2,600.0	2,593.5	2,584.1	2,565.8	7.6	7.9	70.82	98.3	178.7	141.5	128.1	13.39	10.567		
2,660.0	2,653.1	2,643.3	2,623.2	7.8	8.1	70.24	106.2	190.7	151.0	137.3	13.71	11.012		
2,700.0	2,692.8	2,682.8	2,661.5	7.9	8.3	69.88	111.4	198.6	157.4	143.4	13.93	11.297		
2,755.0	2,747.4	2,737.1	2,714.2	8.1	8.5	69.44	118.7	209.6	166.1	151.9	14.23	11.671		
2,800.0	2,792.1	2,781.5	2,757.3	8.3	8.7	69.12	124.6	218.6	173.3	158.8	14.48	11.964		
2,850.0	2,841.7	2,830.9	2,805.2	8.4	8.9	68.78	131.1	228.6	181.3	166.5	14.77	12.276		
2,900.0	2,891.3	2,880.2	2,853.1	8.6	9.1	68.48	137.7	238.5	189.3	174.2	15.05	12.575		
2,945.0	2,936.0	2,924.6	2,896.2	8.8	9.2	68.23	143.6	247.5	196.4	181.1	15.31	12.833		
3,000.0	2,990.6	2,978.9	2,948.8	9.0	9.5	67.94	150.8	258.5	205.2	189.6	15.62	13.135		
3,040.0	3,030.3	3,018.4	2,987.1	9.1	9.6	67.75	156.0	266.5	211.6	195.8	15.86	13.346		
3,100.0	3,089.8	3,077.6	3,044.6	9.3	9.9	67.48	163.9	278.4	221.2	205.0	16.21	13.649		
3,135.0	3,124.6	3,112.1	3,078.1	9.4	10.0	67.33	168.5	285.4	226.8	210.4	16.41	13.819		
3,200.0	3,189.1	3,176.3	3,140.4	9.7	10.3	67.08	177.0	298.4	237.2	220.4	16.80	14.121		
3,230.0	3,218.8	3,205.9	3,169.1	9.8	10.4	66.97	181.0	304.3	242.0	225.0	16.98	14.256		
3,300.0	3,288.3	3,275.0	3,236.1	10.0	10.7	66.73	190.2	318.3	253.2	235.8	17.40	14.556		
3,325.0	3,313.1	3,299.7	3,260.1	10.1	10.8	66.65	193.4	323.3	257.2	239.7	17.55	14.660		
3,400.0	3,387.6	3,373.7	3,331.9	10.4	11.1	66.43	203.3	338.2	269.3	251.2	18.00	14.957		
3,420.0	3,407.4	3,393.4	3,351.1	10.5	11.2	66.37	205.9	342.2	272.5	254.3	18.12	15.034		
3,500.0	3,486.8	3,472.4	3,427.7	10.8	11.5	66.15	216.4	358.2	285.3	266.7	18.61	15.328		
3,515.0	3,501.7	3,487.2	3,442.0	10.9	11.6	66.12	218.4	361.2	287.7	269.0	18.70	15.382		
3,600.0	3,586.1	3,571.1	3,523.4	11.2	12.0	65.91	229.5	378.1	301.3	282.1	19.23	15.672		
3,610.0	3,596.0	3,581.0	3,533.0	11.2	12.0	65.89	230.8	380.1	302.9	283.6	19.29	15.705		
3,700.0	3,685.3	3,669.8	3,619.2	11.6	12.4	65.69	242.6	398.1	317.3	297.5	19.85	15.991		
3,705.0	3,690.3	3,674.7	3,624.0	11.6	12.4	65.68	243.3	399.1	318.1	298.3	19.88	16.006		
3,800.0	3,784.6	3,768.5	3,715.0	11.9	12.9	65.49	255.8	418.0	333.4	312.9	20.47	16.287		
3,895.0	3,878.9	3,862.3	3,806.0	12.3	13.3	65.32	268.2	437.0	348.6	327.6	21.07	16.550		
3,900.0	3,883.9	3,867.2	3,810.8	12.3	13.3	65.32	268.9	438.0	349.4	328.3	21.10	16.563		
3,990.0	3,973.2	3,956.0	3,896.9	12.7	13.7	65.17	280.7	455.9	363.9	342.2	21.66	16.795		
4,000.0	3,983.1	3,965.9	3,906.5	12.7	13.7	65.15	282.0	457.9	365.5	343.7	21.73	16.820		
4,085.0	4,067.5	4,053.8	3,991.8	13.0	14.1	65.03	293.6	475.5	379.0	356.7	22.29	17.004		
4,100.0	4,082.4	4,070.5	4,008.2	13.1	14.2	65.03	295.7	478.7	381.2	358.8	22.39	17.022		
4,180.0	4,161.8	4,160.4	4,096.0	13.4	14.6	65.12	306.0	494.4	391.7	368.8	22.94	17.073		
4,198.2	4,179.8	4,180.9	4,116.1	13.5	14.7	65.17	308.1	497.6	393.8	370.7	23.06	17.074		
4,200.0	4,181.6	4,182.9	4,118.1	13.5	14.7	65.18	308.3	497.9	394.0	370.9	23.07	17.075		
4,275.0	4,256.1	4,267.7	4,201.7	13.8	15.1	65.48	316.3	510.1	401.6	378.1	23.54	17.060		
4,300.0	4,281.0	4,296.1	4,229.7	13.9	15.3	65.59	318.7	513.7	403.8	380.1	23.69	17.045		
4,370.0	4,350.6	4,375.6	4,308.5	14.2	15.6	65.89	324.5	522.5	409.1	385.0	24.08	16.990		
4,400.0	4,380.5	4,409.7	4,342.5	14.3	15.7	66.02	326.6	525.8	410.9	386.7	24.23	16.957		
4,465.0	4,445.3	4,483.8	4,416.2	14.5	16.1	66.32	330.5	531.6	414.1	389.6	24.54	16.874		
4,500.0	4,480.2	4,523.8	4,456.0	14.6	16.2	66.49	332.1	534.2	415.4	390.7	24.69	16.822		
4,560.0	4,540.1	4,592.3	4,524.4	14.8	16.5	66.79	334.3	537.4	416.7	391.8	24.92	16.721		
4,600.0	4,580.0	4,637.9	4,570.0	15.0	16.6	66.99	335.2	538.7	417.1	392.1	25.05	16.654		
4,655.0	4,635.0	4,700.7	4,632.8	15.1	16.8	67.29	335.8	539.7	416.9	391.7	25.19	16.552		
4,700.0	4,679.9	4,747.9	4,680.0	15.3	16.8	67.51	335.8	539.7	416.3	391.1	25.23	16.501		
4,750.0	4,729.9	4,797.9	4,730.0	15.4	16.8	67.70	335.8	539.7	415.7	390.4	25.29	16.441		
4,800.0	4,779.9	4,847.9	4,780.0	15.6	16.9	67.83	335.8	539.7	415.3	389.9	25.36	16.377		
4,845.0	4,824.9	4,892.9	4,825.0	15.7	16.9	67.90	335.8	539.7	415.1	389.7	25.42	16.330		
4,898.1	4,878.0	4,946.0	4,878.1	15.7	16.9	88.81	335.8	539.7	415.0	389.5	25.50	16.273		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)			
4,900.0	4,879.9	4,947.9	4,880.0	15.7	16.9	88.81	335.8	539.7	415.0	389.5	25.50	16.273	
4,940.0	4,919.9	4,987.9	4,920.0	15.8	16.9	88.81	335.8	539.7	415.0	389.4	25.56	16.236	
5,000.0	4,979.9	5,047.9	4,980.0	15.8	17.0	88.81	335.8	539.7	415.0	389.3	25.65	16.182	
5,035.0	5,014.9	5,082.9	5,015.0	15.8	17.0	88.81	335.8	539.7	415.0	389.3	25.69	16.151	
5,100.0	5,079.9	5,147.9	5,080.0	15.9	17.0	88.81	335.8	539.7	415.0	389.2	25.79	16.093	
5,130.0	5,109.9	5,177.9	5,110.0	15.9	17.0	88.81	335.8	539.7	415.0	389.2	25.83	16.066	
5,200.0	5,179.9	5,247.9	5,180.0	15.9	17.1	88.81	335.8	539.7	415.0	389.1	25.93	16.004	
5,225.0	5,204.9	5,272.9	5,205.0	15.9	17.1	88.81	335.8	539.7	415.0	389.0	25.97	15.982	
5,300.0	5,279.9	5,347.9	5,280.0	16.0	17.1	88.81	335.8	539.7	415.0	388.9	26.07	15.916	
5,320.0	5,299.9	5,367.9	5,300.0	16.0	17.1	88.81	335.8	539.7	415.0	388.9	26.10	15.899	
5,400.0	5,379.9	5,447.9	5,380.0	16.0	17.2	88.81	335.8	539.7	415.0	388.8	26.22	15.829	
5,415.0	5,394.9	5,462.9	5,395.0	16.0	17.2	88.81	335.8	539.7	415.0	388.8	26.24	15.816	
5,500.0	5,479.9	5,547.9	5,480.0	16.1	17.2	88.81	335.8	539.7	415.0	388.6	26.36	15.743	
5,510.0	5,489.9	5,557.9	5,490.0	16.1	17.2	88.81	335.8	539.7	415.0	388.6	26.37	15.735	
5,600.0	5,579.9	5,647.9	5,580.0	16.2	17.3	88.81	335.8	539.7	415.0	388.5	26.50	15.658	
5,605.0	5,584.9	5,652.9	5,585.0	16.2	17.3	88.81	335.8	539.7	415.0	388.5	26.51	15.654	
5,700.0	5,679.9	5,747.9	5,680.0	16.2	17.3	88.81	335.8	539.7	415.0	388.3	26.65	15.574	
5,795.0	5,774.9	5,842.9	5,775.0	16.3	17.4	88.81	335.8	539.7	415.0	388.2	26.78	15.494	
5,800.0	5,779.9	5,847.9	5,780.0	16.3	17.4	88.81	335.8	539.7	415.0	388.2	26.79	15.490	
5,890.0	5,869.9	5,937.9	5,870.0	16.3	17.4	88.81	335.8	539.7	415.0	388.1	26.92	15.416	
5,900.0	5,879.9	5,947.9	5,880.0	16.3	17.4	88.81	335.8	539.7	415.0	388.1	26.93	15.407	
5,985.0	5,964.9	6,032.9	5,965.0	16.4	17.5	88.81	335.8	539.7	415.0	387.9	27.06	15.338	
6,000.0	5,979.9	6,047.9	5,980.0	16.4	17.5	88.81	335.8	539.7	415.0	387.9	27.08	15.326	
6,080.0	6,059.9	6,127.9	6,060.0	16.5	17.5	88.81	335.8	539.7	415.0	387.8	27.19	15.261	
6,100.0	6,079.9	6,147.9	6,080.0	16.5	17.5	88.81	335.8	539.7	415.0	387.8	27.22	15.244	
6,175.0	6,154.9	6,222.9	6,155.0	16.5	17.6	88.81	335.8	539.7	415.0	387.7	27.33	15.184	
6,200.0	6,179.9	6,247.9	6,180.0	16.5	17.6	88.81	335.8	539.7	415.0	387.6	27.37	15.164	
6,270.0	6,249.9	6,317.9	6,250.0	16.6	17.6	88.81	335.8	539.7	415.0	387.5	27.47	15.108	
6,300.0	6,279.9	6,347.9	6,280.0	16.6	17.6	88.81	335.8	539.7	415.0	387.5	27.51	15.085	
6,365.0	6,344.9	6,412.9	6,345.0	16.6	17.7	88.81	335.8	539.7	415.0	387.4	27.60	15.033	
6,400.0	6,379.9	6,447.9	6,380.0	16.7	17.7	88.81	335.8	539.7	415.0	387.3	27.66	15.006	
6,460.0	6,439.9	6,507.9	6,440.0	16.7	17.7	88.81	335.8	539.7	415.0	387.2	27.74	14.959	
6,500.0	6,479.9	6,547.9	6,480.0	16.7	17.8	88.81	335.8	539.7	415.0	387.2	27.80	14.928	
6,555.0	6,534.9	6,602.9	6,535.0	16.7	17.8	88.81	335.8	539.7	415.0	387.1	27.88	14.885	
6,600.0	6,579.9	6,647.9	6,580.0	16.8	17.8	88.81	335.8	539.7	415.0	387.0	27.94	14.850	
6,650.0	6,629.9	6,697.9	6,630.0	16.8	17.8	88.81	335.8	539.7	415.0	387.0	28.02	14.812	
6,700.0	6,679.9	6,747.9	6,680.0	16.8	17.9	88.81	335.8	539.7	415.0	386.9	28.09	14.774	
6,745.0	6,724.9	6,792.9	6,725.0	16.9	17.9	88.81	335.8	539.7	415.0	386.8	28.15	14.740	
6,800.0	6,779.9	6,847.9	6,780.0	16.9	17.9	88.81	335.8	539.7	415.0	386.8	28.23	14.698	
6,840.0	6,819.9	6,887.9	6,820.0	16.9	17.9	88.81	335.8	539.7	415.0	386.7	28.29	14.668	
6,900.0	6,879.9	6,947.9	6,880.0	17.0	18.0	88.81	335.8	539.7	415.0	386.6	28.38	14.623	
6,935.0	6,914.9	6,982.9	6,915.0	17.0	18.0	88.81	335.8	539.7	415.0	386.6	28.43	14.597	
7,000.0	6,979.9	7,047.9	6,980.0	17.0	18.0	88.81	335.8	539.7	415.0	386.5	28.52	14.548	
7,030.0	7,009.9	7,077.9	7,010.0	17.0	18.0	88.81	335.8	539.7	415.0	386.4	28.57	14.526	
7,100.0	7,079.9	7,147.9	7,080.0	17.1	18.1	88.81	335.8	539.7	415.0	386.3	28.67	14.475	
7,125.0	7,104.9	7,172.9	7,105.0	17.1	18.1	88.81	335.8	539.7	415.0	386.3	28.71	14.456	
7,200.0	7,179.9	7,247.9	7,180.0	17.2	18.1	88.81	335.8	539.7	415.0	386.2	28.82	14.401	
7,220.0	7,199.9	7,267.9	7,200.0	17.2	18.2	88.81	335.8	539.7	415.0	386.1	28.84	14.387	
7,300.0	7,279.9	7,347.9	7,280.0	17.2	18.2	88.81	335.8	539.7	415.0	386.0	28.96	14.329	
7,315.0	7,294.9	7,362.9	7,295.0	17.2	18.2	88.81	335.8	539.7	415.0	386.0	28.98	14.318	
7,400.0	7,379.9	7,447.9	7,380.0	17.3	18.3	88.81	335.8	539.7	415.0	385.9	29.11	14.257	

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 #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,410.0	7,389.9	7,457.9	7,390.0	17.3	18.3	88.81	335.8	539.7	415.0	385.9	29.12	14.250	
7,500.0	7,479.9	7,547.9	7,480.0	17.3	18.3	88.81	335.8	539.7	415.0	385.7	29.25	14.186	
7,505.0	7,484.9	7,552.9	7,485.0	17.3	18.3	88.81	335.8	539.7	415.0	385.7	29.26	14.183	
7,600.0	7,579.9	7,647.9	7,580.0	17.4	18.4	88.81	335.8	539.7	415.0	385.6	29.40	14.116	
7,695.0	7,674.9	7,742.9	7,675.0	17.5	18.4	88.81	335.8	539.7	415.0	385.5	29.54	14.049	
7,700.0	7,679.9	7,747.9	7,680.0	17.5	18.4	88.81	335.8	539.7	415.0	385.4	29.55	14.046	
7,790.0	7,769.9	7,837.9	7,770.0	17.5	18.5	88.81	335.8	539.7	415.0	385.3	29.68	13.984	
7,800.0	7,779.9	7,847.9	7,780.0	17.5	18.5	88.81	335.8	539.7	415.0	385.3	29.69	13.977	
7,885.0	7,864.9	7,932.9	7,865.0	17.6	18.5	88.81	335.8	539.7	415.0	385.2	29.82	13.918	
7,900.0	7,879.9	7,947.9	7,880.0	17.6	18.5	88.81	335.8	539.7	415.0	385.2	29.84	13.908	
7,980.0	7,959.9	8,027.9	7,960.0	17.7	18.6	88.81	335.8	539.7	415.0	385.0	29.95	13.854	
8,000.0	7,979.9	8,047.9	7,980.0	17.7	18.6	88.81	335.8	539.7	415.0	385.0	29.98	13.840	
8,075.0	8,054.9	8,122.9	8,055.0	17.7	18.6	88.81	335.8	539.7	415.0	384.9	30.09	13.790	
8,100.0	8,079.9	8,147.9	8,080.0	17.7	18.6	88.81	335.8	539.7	415.0	384.9	30.13	13.773	
8,170.0	8,149.9	8,217.9	8,150.0	17.8	18.7	88.81	335.8	539.7	415.0	384.8	30.23	13.726	
8,200.0	8,179.9	8,247.9	8,180.0	17.8	18.7	88.81	335.8	539.7	415.0	384.7	30.28	13.706	
8,265.0	8,244.9	8,312.9	8,245.0	17.8	18.7	88.81	335.8	539.7	415.0	384.6	30.37	13.663	
8,300.0	8,279.9	8,347.9	8,280.0	17.9	18.8	88.81	335.8	539.7	415.0	384.6	30.42	13.640	
8,360.0	8,339.9	8,407.9	8,340.0	17.9	18.8	88.81	335.8	539.7	415.0	384.5	30.51	13.601	
8,400.0	8,379.9	8,447.9	8,380.0	17.9	18.8	88.81	335.8	539.7	415.0	384.4	30.56	13.578	
8,429.2	8,409.0	8,477.0	8,409.1	17.9	18.8	88.81	335.8	539.7	415.0	384.4	30.59	13.567	
8,450.0	8,429.9	8,497.3	8,429.4	17.9	18.8	-91.69	335.7	539.7	415.0	384.4	30.61	13.559	
8,455.0	8,434.9	8,502.1	8,434.2	18.0	18.8	-91.70	335.6	539.7	415.0	384.4	30.61	13.558	
8,500.0	8,479.7	8,545.0	8,477.0	18.0	18.8	-91.78	332.8	540.0	415.3	384.7	30.66	13.547	
8,550.0	8,529.0	8,592.7	8,524.2	18.1	18.9	-91.86	325.9	540.6	416.1	385.4	30.72	13.546	
8,600.0	8,577.4	8,640.5	8,570.8	18.1	18.9	-91.92	315.2	541.6	417.2	386.5	30.77	13.559	
8,645.0	8,619.8	8,683.6	8,611.8	18.2	18.9	-91.96	302.2	542.7	418.6	387.8	30.82	13.582	
8,650.0	8,624.5	8,688.4	8,616.4	18.2	18.9	-91.97	300.5	542.9	418.8	388.0	30.83	13.585	
8,700.0	8,669.9	8,736.4	8,660.6	18.3	18.9	-91.99	282.1	544.5	420.7	389.9	30.89	13.622	
8,740.0	8,704.9	8,774.9	8,694.9	18.3	19.0	-92.01	264.7	546.1	422.6	391.6	30.93	13.661	
8,750.0	8,713.4	8,784.6	8,703.3	18.3	19.0	-92.01	260.0	546.5	423.1	392.1	30.94	13.672	
8,800.0	8,754.5	8,832.8	8,744.1	18.4	19.0	-92.00	234.4	548.8	425.8	394.7	31.01	13.732	
8,835.0	8,781.8	8,866.7	8,771.4	18.5	19.0	-91.99	214.4	550.6	427.8	396.8	31.05	13.779	
8,850.0	8,793.1	8,881.2	8,782.7	18.5	19.0	-91.98	205.3	551.5	428.8	397.7	31.07	13.802	
8,900.0	8,828.7	8,929.7	8,818.8	18.6	19.1	-91.94	173.0	554.4	432.1	401.0	31.13	13.880	
8,930.0	8,848.5	8,958.9	8,839.1	18.6	19.1	-91.91	152.1	556.3	434.3	403.1	31.18	13.931	
8,950.0	8,861.1	8,978.4	8,852.1	18.6	19.1	-91.89	137.7	557.6	435.8	404.6	31.20	13.966	
9,000.0	8,890.0	9,027.3	8,882.4	18.7	19.2	-91.81	99.5	561.0	439.7	408.5	31.28	14.059	
9,025.0	8,903.1	9,051.8	8,896.3	18.7	19.2	-91.77	79.4	562.8	441.8	410.5	31.32	14.107	
9,050.0	8,915.3	9,076.3	8,909.4	18.7	19.2	-91.72	58.7	564.7	443.9	412.6	31.36	14.156	
9,100.0	8,936.8	9,125.6	8,932.9	18.8	19.3	-91.62	15.6	568.6	448.3	416.9	31.45	14.256	
9,120.0	8,944.2	9,145.3	8,941.2	18.8	19.3	-91.58	-2.2	570.2	450.1	418.6	31.48	14.297	
9,150.0	8,954.2	9,175.0	8,952.6	18.8	19.3	-91.50	-29.5	572.6	452.9	421.3	31.54	14.359	
9,200.0	8,967.5	9,224.7	8,968.5	18.9	19.4	-91.37	-76.4	576.8	457.6	425.9	31.64	14.461	
9,215.0	8,970.7	9,239.6	8,972.4	18.9	19.4	-91.33	-90.7	578.1	459.0	427.4	31.68	14.491	
9,250.0	8,976.5	9,274.6	8,980.2	18.9	19.4	-91.23	-124.6	581.2	462.4	430.7	31.75	14.563	
9,300.0	8,981.3	9,324.7	8,987.7	18.9	19.5	-91.08	-174.0	585.6	467.3	435.5	31.87	14.662	
9,310.0	8,981.7	9,334.8	8,988.7	18.9	19.5	-91.04	-183.9	586.5	468.3	436.4	31.90	14.681	
9,328.9	8,982.0	9,353.8	8,990.1	18.9	19.5	-90.98	-202.8	588.2	470.2	438.2	31.95	14.718	
9,400.0	8,982.0	9,432.9	8,991.0	18.9	19.6	-91.07	-281.6	595.0	476.8	444.8	32.05	14.880	
9,405.0	8,982.0	9,438.8	8,991.0	18.9	19.7	-91.07	-287.6	595.4	477.2	445.2	32.05	14.891	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.0	8,982.1	9,552.8	8,991.1	19.0	19.9	-91.06	-401.3	601.2	482.9	450.8	32.15	15.020	
9,595.0	8,982.1	9,667.0	8,991.1	19.0	20.1	-91.05	-515.6	602.6	484.8	452.5	32.31	15.005	
9,600.0	8,982.1	9,673.1	8,991.1	19.0	20.1	-91.05	-521.6	602.5	484.8	452.5	32.32	15.001	
9,600.4	8,982.1	9,673.6	8,991.1	19.0	20.1	-91.05	-522.1	602.5	484.8	452.5	32.32	15.001	
9,690.0	8,982.2	9,762.0	8,991.2	19.1	20.3	-91.05	-610.6	601.8	484.8	452.0	32.84	14.760	
9,700.0	8,982.2	9,772.0	8,991.2	19.1	20.3	-91.05	-620.6	601.7	484.8	451.9	32.90	14.734	
9,785.0	8,982.2	9,857.0	8,991.2	19.1	20.5	-91.05	-705.6	601.0	484.8	451.4	33.44	14.499	
9,800.0	8,982.2	9,872.0	8,991.2	19.1	20.5	-91.05	-720.6	600.9	484.8	451.3	33.53	14.458	
9,880.0	8,982.3	9,952.0	8,991.3	19.2	20.7	-91.05	-800.6	600.2	484.8	450.7	34.08	14.225	
9,900.0	8,982.3	9,972.0	8,991.3	19.2	20.7	-91.05	-820.6	600.1	484.8	450.6	34.22	14.167	
9,975.0	8,982.3	10,047.0	8,991.3	19.2	20.9	-91.05	-895.6	599.4	484.8	450.0	34.77	13.942	
10,000.0	8,982.3	10,072.0	8,991.3	19.3	21.0	-91.05	-920.6	599.2	484.8	449.8	34.96	13.867	
10,070.0	8,982.3	10,142.0	8,991.4	19.3	21.2	-91.05	-990.6	598.7	484.8	449.3	35.51	13.652	
10,100.0	8,982.4	10,172.0	8,991.4	19.4	21.3	-91.05	-1,020.6	598.4	484.8	449.1	35.75	13.561	
10,165.0	8,982.4	10,237.0	8,991.4	19.4	21.5	-91.05	-1,085.6	597.9	484.8	448.5	36.29	13.358	
10,200.0	8,982.4	10,272.0	8,991.4	19.5	21.6	-91.05	-1,120.6	597.6	484.8	448.2	36.59	13.251	
10,260.0	8,982.4	10,332.0	8,991.4	19.6	21.8	-91.05	-1,180.6	597.1	484.8	447.7	37.11	13.063	
10,300.0	8,982.5	10,372.0	8,991.5	19.6	21.9	-91.05	-1,220.6	596.8	484.8	447.3	37.47	12.939	
10,355.0	8,982.5	10,427.0	8,991.5	19.7	22.1	-91.05	-1,275.5	596.3	484.8	446.8	37.97	12.768	
10,400.0	8,982.5	10,472.0	8,991.5	19.8	22.2	-91.05	-1,320.5	595.9	484.8	446.4	38.39	12.629	
10,450.0	8,982.5	10,522.0	8,991.5	19.9	22.4	-91.05	-1,370.5	595.5	484.8	445.9	38.87	12.474	
10,500.0	8,982.5	10,572.0	8,991.6	20.0	22.6	-91.05	-1,420.5	595.1	484.8	445.5	39.35	12.321	
10,545.0	8,982.6	10,617.0	8,991.6	20.1	22.8	-91.05	-1,465.5	594.7	484.8	445.0	39.79	12.184	
10,600.0	8,982.6	10,672.0	8,991.6	20.2	23.0	-91.05	-1,520.5	594.3	484.8	444.5	40.34	12.018	
10,640.0	8,982.6	10,712.0	8,991.6	20.3	23.2	-91.05	-1,560.5	593.9	484.8	444.1	40.75	11.897	
10,700.0	8,982.6	10,772.0	8,991.6	20.5	23.4	-91.05	-1,620.5	593.5	484.8	443.4	41.37	11.720	
10,735.0	8,982.7	10,807.0	8,991.7	20.6	23.6	-91.05	-1,655.5	593.2	484.8	443.1	41.73	11.617	
10,800.0	8,982.7	10,872.0	8,991.7	20.9	23.8	-91.05	-1,720.5	592.6	484.8	442.4	42.42	11.428	
10,830.0	8,982.7	10,902.0	8,991.7	21.0	24.0	-91.05	-1,750.5	592.4	484.8	442.1	42.75	11.342	
10,900.0	8,982.7	10,972.0	8,991.7	21.2	24.3	-91.05	-1,820.5	591.8	484.8	441.3	43.51	11.143	
10,925.0	8,982.7	10,997.0	8,991.8	21.4	24.4	-91.05	-1,845.5	591.6	484.8	441.0	43.78	11.073	
11,000.0	8,982.8	11,072.0	8,991.8	21.7	24.7	-91.05	-1,920.5	591.0	484.8	440.2	44.62	10.866	
11,020.0	8,982.8	11,092.0	8,991.8	21.8	24.8	-91.05	-1,940.5	590.8	484.8	440.0	44.84	10.812	
11,100.0	8,982.8	11,172.0	8,991.8	22.2	25.2	-91.05	-2,020.5	590.2	484.8	439.1	45.75	10.597	
11,115.0	8,982.8	11,187.0	8,991.8	22.2	25.3	-91.05	-2,035.5	590.0	484.8	438.9	45.92	10.557	
11,200.0	8,982.9	11,272.0	8,991.9	22.7	25.7	-91.05	-2,120.5	589.3	484.8	437.9	46.91	10.336	
11,210.0	8,982.9	11,282.0	8,991.9	22.7	25.8	-91.05	-2,130.5	589.2	484.8	437.8	47.02	10.310	
11,300.0	8,982.9	11,372.0	8,991.9	23.2	26.2	-91.05	-2,220.5	588.5	484.8	436.7	48.08	10.083	
11,305.0	8,982.9	11,377.0	8,991.9	23.2	26.2	-91.05	-2,225.5	588.5	484.8	436.7	48.14	10.071	
11,400.0	8,983.0	11,472.0	8,992.0	23.8	26.7	-91.05	-2,320.5	587.7	484.8	435.5	49.28	9.838	
11,495.0	8,983.0	11,567.0	8,992.0	24.3	27.2	-91.05	-2,415.5	586.9	484.8	434.4	50.43	9.614	
11,500.0	8,983.0	11,572.0	8,992.0	24.4	27.3	-91.05	-2,420.5	586.8	484.8	434.3	50.49	9.602	
11,590.0	8,983.1	11,662.0	8,992.1	24.9	27.8	-91.05	-2,510.5	586.1	484.8	433.2	51.60	9.396	
11,600.0	8,983.1	11,672.0	8,992.1	25.0	27.8	-91.05	-2,520.5	586.0	484.8	433.1	51.72	9.374	
11,685.0	8,983.1	11,757.0	8,992.1	25.5	28.3	-91.05	-2,605.5	585.3	484.8	432.0	52.78	9.186	
11,700.0	8,983.1	11,772.0	8,992.1	25.6	28.4	-91.05	-2,620.5	585.2	484.8	431.8	52.97	9.153	
11,780.0	8,983.1	11,852.0	8,992.1	26.1	28.8	-91.05	-2,700.5	584.5	484.8	430.8	53.97	8.983	
11,800.0	8,983.2	11,872.0	8,992.2	26.2	28.9	-91.05	-2,720.5	584.4	484.8	430.6	54.23	8.941	
11,875.0	8,983.2	11,947.0	8,992.2	26.7	29.4	-91.05	-2,795.5	583.8	484.8	429.6	55.18	8.786	
11,900.0	8,983.2	11,972.0	8,992.2	26.8	29.5	-91.05	-2,820.5	583.5	484.8	429.3	55.50	8.736	
11,970.0	8,983.2	12,042.0	8,992.2	27.3	29.9	-91.05	-2,890.5	583.0	484.8	428.4	56.40	8.596	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		
12,000.0	8,983.2	12,072.0	8,992.3	27.5	30.1	-91.05	-2,920.5	582.7	484.8	428.0	56.78	8.538		
12,065.0	8,983.3	12,137.0	8,992.3	27.9	30.5	-91.05	-2,985.5	582.2	484.8	427.2	57.63	8.413		
12,100.0	8,983.3	12,172.0	8,992.3	28.1	30.7	-91.05	-3,020.5	581.9	484.8	426.7	58.08	8.347		
12,160.0	8,983.3	12,232.0	8,992.3	28.5	31.1	-91.05	-3,080.5	581.4	484.8	426.0	58.86	8.236		
12,200.0	8,983.3	12,272.0	8,992.3	28.8	31.3	-91.05	-3,120.5	581.1	484.8	425.4	59.39	8.163		
12,255.0	8,983.4	12,327.0	8,992.4	29.2	31.6	-91.05	-3,175.5	580.6	484.8	424.7	60.11	8.065		
12,300.0	8,983.4	12,372.0	8,992.4	29.5	31.9	-91.05	-3,220.5	580.2	484.8	424.1	60.71	7.986		
12,350.0	8,983.4	12,422.0	8,992.4	29.8	32.2	-91.05	-3,270.5	579.8	484.8	423.4	61.37	7.900		
12,400.0	8,983.4	12,472.0	8,992.4	30.1	32.5	-91.05	-3,320.5	579.4	484.8	422.8	62.03	7.815		
12,445.0	8,983.5	12,517.0	8,992.5	30.4	32.8	-91.05	-3,365.5	579.0	484.8	422.2	62.64	7.740		
12,500.0	8,983.5	12,572.0	8,992.5	30.8	33.2	-91.05	-3,420.5	578.6	484.8	421.4	63.37	7.650		
12,540.0	8,983.5	12,612.0	8,992.5	31.1	33.4	-91.05	-3,460.5	578.3	484.8	420.9	63.91	7.586		
12,600.0	8,983.5	12,672.0	8,992.5	31.5	33.8	-91.05	-3,520.5	577.8	484.8	420.1	64.72	7.491		
12,635.0	8,983.5	12,707.0	8,992.5	31.7	34.0	-91.05	-3,555.5	577.5	484.8	419.6	65.19	7.437		
12,700.0	8,983.6	12,772.0	8,992.6	32.2	34.4	-91.05	-3,620.5	576.9	484.8	418.8	66.07	7.338		
12,730.0	8,983.6	12,802.0	8,992.6	32.4	34.6	-91.05	-3,650.5	576.7	484.8	418.3	66.48	7.293		
12,800.0	8,983.6	12,872.0	8,992.6	32.9	35.1	-91.05	-3,720.5	576.1	484.8	417.4	67.43	7.190		
12,825.0	8,983.6	12,897.0	8,992.6	33.1	35.2	-91.05	-3,745.5	575.9	484.8	417.1	67.77	7.154		
12,900.0	8,983.7	12,972.0	8,992.7	33.6	35.7	-91.05	-3,820.5	575.3	484.8	416.0	68.80	7.047		
12,920.0	8,983.7	12,992.0	8,992.7	33.7	35.9	-91.05	-3,840.5	575.1	484.8	415.8	69.07	7.019		
13,000.0	8,983.7	13,072.0	8,992.7	34.3	36.4	-91.05	-3,920.5	574.5	484.8	414.7	70.17	6.909		
13,015.0	8,983.7	13,087.0	8,992.7	34.4	36.5	-91.05	-3,935.5	574.3	484.8	414.4	70.38	6.889		
13,100.0	8,983.8	13,172.0	8,992.8	35.0	37.0	-91.05	-4,020.5	573.6	484.8	413.3	71.55	6.776		
13,110.0	8,983.8	13,182.0	8,992.8	35.0	37.1	-91.05	-4,030.5	573.6	484.8	413.1	71.69	6.763		
13,200.0	8,983.8	13,272.0	8,992.8	35.7	37.7	-91.05	-4,120.5	572.8	484.8	411.9	72.94	6.647		
13,205.0	8,983.8	13,277.0	8,992.8	35.7	37.7	-91.05	-4,125.5	572.8	484.8	411.8	73.01	6.641		
13,300.0	8,983.9	13,372.0	8,992.9	36.4	38.4	-91.05	-4,220.4	572.0	484.8	410.5	74.33	6.523		
13,395.0	8,983.9	13,467.0	8,992.9	37.1	39.0	-91.05	-4,315.4	571.2	484.8	409.2	75.66	6.408		
13,400.0	8,983.9	13,472.0	8,992.9	37.1	39.0	-91.05	-4,320.4	571.2	484.8	409.1	75.73	6.402		
13,490.0	8,983.9	13,562.0	8,992.9	37.7	39.7	-91.05	-4,410.4	570.4	484.8	407.8	76.99	6.298		
13,500.0	8,983.9	13,572.0	8,993.0	37.8	39.7	-91.05	-4,420.4	570.3	484.8	407.7	77.13	6.286		
13,585.0	8,984.0	13,657.0	8,993.0	38.4	40.3	-91.05	-4,505.4	569.6	484.8	406.5	78.32	6.190		
13,600.0	8,984.0	13,672.0	8,993.0	38.5	40.4	-91.05	-4,520.4	569.5	484.8	406.3	78.53	6.174		
13,680.0	8,984.0	13,752.0	8,993.0	39.1	40.9	-91.05	-4,600.4	568.9	484.8	405.2	79.66	6.086		
13,700.0	8,984.0	13,772.0	8,993.0	39.2	41.1	-91.05	-4,620.4	568.7	484.8	404.9	79.94	6.065		
13,775.0	8,984.1	13,847.0	8,993.1	39.8	41.6	-91.05	-4,695.4	568.1	484.8	403.8	81.01	5.985		
13,800.0	8,984.1	13,872.0	8,993.1	40.0	41.8	-91.05	-4,720.4	567.9	484.8	403.5	81.36	5.959		
13,870.0	8,984.1	13,942.0	8,993.1	40.5	42.2	-91.05	-4,790.4	567.3	484.8	402.5	82.35	5.887		
13,900.0	8,984.1	13,972.0	8,993.1	40.7	42.5	-91.05	-4,820.4	567.0	484.8	402.1	82.78	5.857		
13,965.0	8,984.2	14,037.0	8,993.2	41.1	42.9	-91.05	-4,885.4	566.5	484.8	401.1	83.70	5.792		
14,000.0	8,984.2	14,072.0	8,993.2	41.4	43.1	-91.05	-4,920.4	566.2	484.8	400.6	84.20	5.758		
14,060.0	8,984.2	14,132.0	8,993.2	41.8	43.6	-91.05	-4,980.4	565.7	484.8	399.8	85.06	5.700		
14,100.0	8,984.2	14,172.0	8,993.2	42.1	43.8	-91.05	-5,020.4	565.4	484.8	399.2	85.63	5.662		
14,155.0	8,984.3	14,227.0	8,993.3	42.5	44.2	-91.05	-5,075.4	564.9	484.8	398.4	86.41	5.611		
14,200.0	8,984.3	14,272.0	8,993.3	42.8	44.5	-91.05	-5,120.4	564.6	484.8	397.8	87.06	5.569		
14,250.0	8,984.3	14,322.0	8,993.3	43.2	44.9	-91.05	-5,170.4	564.2	484.8	397.1	87.77	5.524		
14,300.0	8,984.3	14,372.0	8,993.3	43.6	45.2	-91.05	-5,220.4	563.7	484.8	396.3	88.49	5.479		
14,345.0	8,984.3	14,417.0	8,993.3	43.9	45.5	-91.05	-5,265.4	563.4	484.8	395.7	89.14	5.439		
14,400.0	8,984.4	14,472.0	8,993.4	44.3	45.9	-91.05	-5,320.4	562.9	484.8	394.9	89.93	5.391		
14,440.0	8,984.4	14,512.0	8,993.4	44.6	46.2	-91.05	-5,360.4	562.6	484.8	394.3	90.50	5.357		
14,500.0	8,984.4	14,572.0	8,993.4	45.0	46.6	-91.05	-5,420.4	562.1	484.8	393.5	91.37	5.306		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		
14,535.0	8,984.4	14,607.0	8,993.4	45.3	46.9	-91.05	-5,455.4	561.8	484.8	393.0	91.87	5.277		
14,600.0	8,984.5	14,672.0	8,993.5	45.8	47.3	-91.05	-5,520.4	561.3	484.8	392.0	92.81	5.224		
14,630.0	8,984.5	14,702.0	8,993.5	46.0	47.5	-91.05	-5,550.4	561.0	484.8	391.6	93.24	5.200		
14,700.0	8,984.5	14,772.0	8,993.5	46.5	48.0	-91.05	-5,620.4	560.4	484.8	390.6	94.25	5.144		
14,725.0	8,984.5	14,797.0	8,993.5	46.7	48.2	-91.05	-5,645.4	560.2	484.8	390.2	94.62	5.124		
14,800.0	8,984.6	14,872.0	8,993.6	47.2	48.8	-91.05	-5,720.4	559.6	484.8	389.1	95.70	5.066		
14,820.0	8,984.6	14,892.0	8,993.6	47.4	48.9	-91.05	-5,740.4	559.4	484.8	388.8	95.99	5.051		
14,900.0	8,984.6	14,972.0	8,993.6	47.9	49.5	-91.05	-5,820.4	558.8	484.8	387.7	97.15	4.991		
14,915.0	8,984.6	14,987.0	8,993.6	48.1	49.6	-91.05	-5,835.4	558.7	484.8	387.5	97.37	4.979		
15,000.0	8,984.6	15,072.0	8,993.7	48.7	50.2	-91.05	-5,920.4	558.0	484.8	386.2	98.60	4.917		
15,010.0	8,984.7	15,082.0	8,993.7	48.8	50.2	-91.05	-5,930.4	557.9	484.8	386.1	98.75	4.910		
15,100.0	8,984.7	15,172.0	8,993.7	49.4	50.9	-91.05	-6,020.4	557.1	484.8	384.8	100.06	4.846		
15,105.0	8,984.7	15,177.0	8,993.7	49.5	50.9	-91.05	-6,025.4	557.1	484.8	384.7	100.13	4.842		
15,200.0	8,984.7	15,272.0	8,993.7	50.2	51.6	-91.05	-6,120.4	556.3	484.8	383.3	101.51	4.776		
15,295.0	8,984.8	15,367.0	8,993.8	50.9	52.3	-91.05	-6,215.4	555.5	484.8	381.9	102.90	4.712		
15,300.0	8,984.8	15,372.0	8,993.8	50.9	52.3	-91.05	-6,220.4	555.5	484.8	381.9	102.97	4.708		
15,390.0	8,984.8	15,462.0	8,993.8	51.6	53.0	-91.05	-6,310.4	554.7	484.8	380.6	104.29	4.649		
15,400.0	8,984.8	15,472.0	8,993.8	51.6	53.0	-91.05	-6,320.4	554.7	484.8	380.4	104.43	4.643		
15,485.0	8,984.9	15,557.0	8,993.9	52.3	53.6	-91.05	-6,405.4	554.0	484.8	379.2	105.68	4.588		
15,500.0	8,984.9	15,572.0	8,993.9	52.4	53.8	-91.05	-6,420.4	553.8	484.8	378.9	105.90	4.578		
15,580.0	8,984.9	15,652.0	8,993.9	53.0	54.3	-91.05	-6,500.4	553.2	484.8	377.8	107.07	4.528		
15,600.0	8,984.9	15,672.0	8,993.9	53.1	54.5	-91.05	-6,520.4	553.0	484.8	377.5	107.36	4.516		
15,675.0	8,985.0	15,747.0	8,994.0	53.7	55.0	-91.05	-6,595.4	552.4	484.8	376.4	108.46	4.470		
15,700.0	8,985.0	15,772.0	8,994.0	53.8	55.2	-91.05	-6,620.4	552.2	484.8	376.0	108.83	4.455		
15,770.0	8,985.0	15,842.0	8,994.0	54.4	55.7	-91.05	-6,690.4	551.6	484.8	375.0	109.85	4.414		
15,800.0	8,985.0	15,872.0	8,994.0	54.6	55.9	-91.05	-6,720.4	551.4	484.8	374.6	110.29	4.396		
15,865.0	8,985.1	15,937.0	8,994.1	55.1	56.4	-91.05	-6,785.4	550.8	484.8	373.6	111.25	4.358		
15,900.0	8,985.1	15,972.0	8,994.1	55.3	56.6	-91.05	-6,820.4	550.5	484.8	373.1	111.76	4.338		
15,960.0	8,985.1	16,032.0	8,994.1	55.8	57.1	-91.05	-6,880.4	550.0	484.8	372.2	112.65	4.304		
16,000.0	8,985.1	16,072.0	8,994.1	56.1	57.4	-91.05	-6,920.4	549.7	484.8	371.6	113.23	4.282		
16,055.0	8,985.1	16,127.0	8,994.1	56.5	57.8	-91.05	-6,975.4	549.3	484.8	370.8	114.04	4.251		
16,100.0	8,985.2	16,172.0	8,994.2	56.8	58.1	-91.05	-7,020.4	548.9	484.8	370.1	114.71	4.227		
16,150.0	8,985.2	16,222.0	8,994.2	57.2	58.5	-91.05	-7,070.4	548.5	484.8	369.4	115.44	4.200		
16,200.0	8,985.2	16,272.0	8,994.2	57.6	58.8	-91.05	-7,120.3	548.1	484.8	368.7	116.18	4.173		
16,245.0	8,985.2	16,317.0	8,994.2	57.9	59.1	-91.05	-7,165.3	547.7	484.8	368.0	116.84	4.150		
16,300.0	8,985.3	16,372.0	8,994.3	58.3	59.5	-91.05	-7,220.3	547.2	484.8	367.2	117.66	4.121		
16,340.0	8,985.3	16,412.0	8,994.3	58.6	59.8	-91.05	-7,260.3	546.9	484.8	366.6	118.25	4.100		
16,400.0	8,985.3	16,472.0	8,994.3	59.0	60.3	-91.05	-7,320.3	546.4	484.8	365.7	119.13	4.070		
16,435.0	8,985.3	16,507.0	8,994.3	59.3	60.5	-91.05	-7,355.3	546.1	484.8	365.2	119.65	4.052		
16,500.0	8,985.3	16,572.0	8,994.3	59.8	61.0	-91.05	-7,420.3	545.6	484.8	364.2	120.61	4.020		
16,530.0	8,985.4	16,602.0	8,994.4	60.0	61.2	-91.05	-7,450.3	545.3	484.8	363.8	121.05	4.005		
16,600.0	8,985.4	16,672.0	8,994.4	60.5	61.7	-91.05	-7,520.3	544.8	484.9	362.8	122.09	3.971		
16,625.0	8,985.4	16,697.0	8,994.4	60.7	61.9	-91.05	-7,545.3	544.6	484.9	362.4	122.46	3.959		
16,700.0	8,985.4	16,772.0	8,994.4	61.3	62.5	-91.05	-7,620.3	543.9	484.9	361.3	123.57	3.924		
16,720.0	8,985.5	16,792.0	8,994.5	61.4	62.6	-91.05	-7,640.3	543.8	484.9	361.0	123.87	3.914		
16,800.0	8,985.5	16,872.0	8,994.5	62.0	63.2	-91.05	-7,720.3	543.1	484.9	359.8	125.05	3.877		
16,815.0	8,985.5	16,887.0	8,994.5	62.1	63.3	-91.05	-7,735.3	543.0	484.9	359.6	125.27	3.870		
16,900.0	8,985.5	16,972.0	8,994.5	62.8	63.9	-91.05	-7,820.3	542.3	484.9	358.3	126.53	3.832		
16,910.0	8,985.5	16,982.0	8,994.5	62.8	64.0	-91.05	-7,830.3	542.2	484.9	358.2	126.68	3.827		
17,000.0	8,985.6	17,072.0	8,994.6	63.5	64.7	-91.05	-7,920.3	541.5	484.9	356.8	128.02	3.787		
17,005.0	8,985.6	17,077.0	8,994.6	63.6	64.7	-91.05	-7,925.3	541.4	484.9	356.8	128.09	3.785		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,100.0	8,985.6	17,172.0	8,994.6	64.3	65.4	-91.05	-8,020.3	540.6	484.9	355.4	129.50	3.744		
17,195.0	8,985.7	17,267.0	8,994.7	65.0	66.1	-91.05	-8,115.3	539.8	484.9	353.9	130.91	3.704		
17,200.0	8,985.7	17,272.0	8,994.7	65.0	66.1	-91.05	-8,120.3	539.8	484.9	353.9	130.99	3.702		
17,290.0	8,985.7	17,362.0	8,994.7	65.7	66.8	-91.05	-8,210.3	539.1	484.9	352.5	132.33	3.664		
17,300.0	8,985.7	17,372.0	8,994.7	65.8	66.9	-91.05	-8,220.3	539.0	484.9	352.4	132.47	3.660		
17,385.0	8,985.8	17,457.0	8,994.8	66.4	67.5	-91.05	-8,305.3	538.3	484.9	351.1	133.74	3.625		
17,400.0	8,985.8	17,472.0	8,994.8	66.5	67.6	-91.05	-8,320.3	538.2	484.9	350.9	133.96	3.619		
17,480.0	8,985.8	17,552.0	8,994.8	67.1	68.2	-91.05	-8,400.3	537.5	484.9	349.7	135.15	3.587		
17,500.0	8,985.8	17,572.0	8,994.8	67.3	68.3	-91.05	-8,420.3	537.3	484.9	349.4	135.45	3.580		
17,575.0	8,985.8	17,647.0	8,994.9	67.8	68.9	-91.05	-8,495.3	536.7	484.9	348.3	136.57	3.550		
17,600.0	8,985.9	17,672.0	8,994.9	68.0	69.1	-91.05	-8,520.3	536.5	484.9	347.9	136.94	3.541		
17,670.0	8,985.9	17,742.0	8,994.9	68.5	69.6	-91.05	-8,590.3	535.9	484.9	346.9	137.98	3.514		
17,700.0	8,985.9	17,772.0	8,994.9	68.8	69.8	-91.05	-8,620.3	535.7	484.9	346.4	138.43	3.503		
17,765.0	8,985.9	17,837.0	8,994.9	69.2	70.3	-91.05	-8,685.3	535.1	484.9	345.5	139.40	3.478		
17,800.0	8,986.0	17,872.0	8,995.0	69.5	70.6	-91.05	-8,720.3	534.9	484.9	344.9	139.92	3.465		
17,860.0	8,986.0	17,932.0	8,995.0	70.0	71.0	-91.05	-8,780.3	534.4	484.9	344.0	140.82	3.443		
17,900.0	8,986.0	17,972.0	8,995.0	70.3	71.3	-91.05	-8,820.3	534.0	484.9	343.4	141.41	3.429		
17,955.0	8,986.0	18,027.0	8,995.0	70.7	71.7	-91.05	-8,875.3	533.6	484.9	342.6	142.23	3.409		
18,000.0	8,986.0	18,072.0	8,995.0	71.0	72.0	-91.05	-8,920.3	533.2	484.9	342.0	142.91	3.393		
18,050.0	8,986.1	18,122.0	8,995.1	71.4	72.4	-91.05	-8,970.3	532.8	484.9	341.2	143.65	3.375		
18,100.0	8,986.1	18,172.0	8,995.1	71.8	72.8	-91.05	-9,020.3	532.4	484.9	340.5	144.40	3.358		
18,145.0	8,986.1	18,217.0	8,995.1	72.1	73.1	-91.05	-9,065.3	532.0	484.9	339.8	145.07	3.342		
18,200.0	8,986.1	18,272.0	8,995.1	72.5	73.5	-91.05	-9,120.3	531.6	484.9	339.0	145.89	3.323		
18,240.0	8,986.2	18,312.0	8,995.2	72.8	73.8	-91.05	-9,160.3	531.2	484.9	338.4	146.49	3.310		
18,300.0	8,986.2	18,372.0	8,995.2	73.3	74.3	-91.05	-9,220.3	530.7	484.9	337.5	147.39	3.290		
18,335.0	8,986.2	18,407.0	8,995.2	73.5	74.5	-91.05	-9,255.3	530.4	484.9	337.0	147.91	3.278		
18,400.0	8,986.2	18,472.0	8,995.2	74.0	75.0	-91.05	-9,320.3	529.9	484.9	336.0	148.88	3.257		
18,430.0	8,986.2	18,502.0	8,995.2	74.2	75.2	-91.05	-9,350.3	529.7	484.9	335.5	149.33	3.247		
18,500.0	8,986.3	18,572.0	8,995.3	74.8	75.7	-91.05	-9,420.3	529.1	484.9	334.5	150.38	3.224		
18,525.0	8,986.3	18,597.0	8,995.3	74.9	75.9	-91.05	-9,445.3	528.9	484.9	334.1	150.75	3.216		
18,600.0	8,986.3	18,672.0	8,995.3	75.5	76.5	-91.05	-9,520.3	528.3	484.9	333.0	151.88	3.193		
18,620.0	8,986.3	18,692.0	8,995.3	75.7	76.6	-91.05	-9,540.3	528.1	484.9	332.7	152.18	3.186		
18,700.0	8,986.4	18,772.0	8,995.4	76.3	77.2	-91.05	-9,620.3	527.4	484.9	331.5	153.37	3.161		
18,715.0	8,986.4	18,787.0	8,995.4	76.4	77.3	-91.05	-9,635.3	527.3	484.9	331.3	153.60	3.157		
18,800.0	8,986.4	18,872.0	8,995.4	77.0	78.0	-91.05	-9,720.3	526.6	484.9	330.0	154.87	3.131		
18,810.0	8,986.4	18,882.0	8,995.4	77.1	78.0	-91.05	-9,730.3	526.5	484.9	329.8	155.02	3.128		
18,900.0	8,986.5	18,972.0	8,995.5	77.8	78.7	-91.05	-9,820.3	525.8	484.9	328.5	156.37	3.101		
18,905.0	8,986.5	18,977.0	8,995.5	77.8	78.8	-91.05	-9,825.3	525.7	484.9	328.4	156.44	3.099		
19,000.0	8,986.5	19,072.0	8,995.5	78.5	79.5	-91.05	-9,920.3	524.9	484.9	327.0	157.87	3.071		
19,095.0	8,986.6	19,167.0	8,995.6	79.2	80.2	-91.05	-10,015.2	524.2	484.9	325.6	159.29	3.044		
19,100.0	8,986.6	19,172.0	8,995.6	79.3	80.2	-91.05	-10,020.2	524.1	484.9	325.5	159.37	3.042		
19,190.0	8,986.6	19,262.0	8,995.6	80.0	80.9	-91.05	-10,110.2	523.4	484.9	324.2	160.72	3.017		
19,200.0	8,986.6	19,272.0	8,995.6	80.0	81.0	-91.05	-10,120.2	523.3	484.9	324.0	160.87	3.014		
19,285.0	8,986.6	19,357.0	8,995.6	80.7	81.6	-91.05	-10,205.2	522.6	484.9	322.7	162.14	2.990		
19,300.0	8,986.7	19,372.0	8,995.7	80.8	81.7	-91.05	-10,220.2	522.5	484.9	322.5	162.37	2.986		
19,380.0	8,986.7	19,452.0	8,995.7	81.4	82.3	-91.05	-10,300.2	521.8	484.9	321.3	163.57	2.964		
19,400.0	8,986.7	19,472.0	8,995.7	81.5	82.4	-91.05	-10,320.2	521.6	484.9	321.0	163.87	2.959		
19,475.0	8,986.7	19,547.0	8,995.7	82.1	83.0	-91.05	-10,395.2	521.0	484.9	319.9	165.00	2.939		
19,500.0	8,986.7	19,572.0	8,995.7	82.3	83.2	-91.05	-10,420.2	520.8	484.9	319.5	165.37	2.932		
19,570.0	8,986.8	19,642.0	8,995.8	82.8	83.7	-91.05	-10,490.2	520.2	484.9	318.4	166.42	2.913		
19,600.0	8,986.8	19,672.0	8,995.8	83.0	83.9	-91.05	-10,520.2	520.0	484.9	318.0	166.87	2.906		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
19,665.0	8,986.8	19,737.0	8,995.8	83.5	84.4	-91.05	-10,585.2	519.5	484.9	317.0	167.85	2.889
19,700.0	8,986.8	19,772.0	8,995.8	83.8	84.7	-91.05	-10,620.2	519.2	484.9	316.5	168.38	2.880
19,760.0	8,986.9	19,832.0	8,995.9	84.3	85.1	-91.05	-10,680.2	518.7	484.9	315.6	169.28	2.864
19,800.0	8,986.9	19,872.0	8,995.9	84.6	85.4	-91.05	-10,720.2	518.3	484.9	315.0	169.88	2.854
19,855.0	8,986.9	19,927.0	8,995.9	85.0	85.8	-91.05	-10,775.2	517.9	484.9	314.2	170.71	2.840
19,900.0	8,986.9	19,972.0	8,995.9	85.3	86.2	-91.05	-10,820.2	517.5	484.9	313.5	171.38	2.829
19,950.0	8,987.0	20,022.0	8,996.0	85.7	86.6	-91.05	-10,870.2	517.1	484.9	312.7	172.14	2.817
20,000.0	8,987.0	20,072.0	8,996.0	86.1	86.9	-91.05	-10,920.2	516.7	484.9	312.0	172.89	2.805
20,045.0	8,987.0	20,117.0	8,996.0	86.4	87.3	-91.05	-10,965.2	516.3	484.9	311.3	173.56	2.794
20,100.0	8,987.0	20,172.0	8,996.0	86.8	87.7	-91.05	-11,020.2	515.9	484.9	310.5	174.39	2.780
20,140.0	8,987.0	20,212.0	8,996.0	87.1	88.0	-91.05	-11,060.2	515.5	484.9	309.9	174.99	2.771
20,200.0	8,987.1	20,272.0	8,996.1	87.6	88.4	-91.05	-11,120.2	515.0	484.9	309.0	175.90	2.757
20,235.0	8,987.1	20,307.0	8,996.1	87.8	88.7	-91.05	-11,155.2	514.8	484.9	308.5	176.42	2.748
20,300.0	8,987.1	20,372.0	8,996.1	88.3	89.2	-91.05	-11,220.2	514.2	484.9	307.5	177.40	2.733
20,330.0	8,987.1	20,402.0	8,996.1	88.6	89.4	-91.05	-11,250.2	514.0	484.9	307.0	177.85	2.726
20,400.0	8,987.2	20,472.0	8,996.2	89.1	89.9	-91.05	-11,320.2	513.4	484.9	306.0	178.91	2.710
20,425.0	8,987.2	20,497.0	8,996.2	89.3	90.1	-91.05	-11,345.2	513.2	484.9	305.6	179.28	2.705
20,500.0	8,987.2	20,572.0	8,996.2	89.8	90.7	-91.05	-11,420.2	512.6	484.9	304.5	180.41	2.688
20,520.0	8,987.2	20,592.0	8,996.2	90.0	90.8	-91.05	-11,440.2	512.4	484.9	304.2	180.71	2.683
20,600.0	8,987.3	20,672.0	8,996.3	90.6	91.4	-91.05	-11,520.2	511.7	484.9	303.0	181.92	2.665
20,615.0	8,987.3	20,687.0	8,996.3	90.7	91.5	-91.05	-11,535.2	511.6	484.9	302.7	182.15	2.662
20,700.0	8,987.3	20,772.0	8,996.3	91.4	92.2	-91.05	-11,620.2	510.9	484.9	301.5	183.43	2.643
20,710.0	8,987.3	20,782.0	8,996.3	91.4	92.2	-91.05	-11,630.2	510.8	484.9	301.3	183.58	2.641
20,800.0	8,987.4	20,872.0	8,996.4	92.1	92.9	-91.05	-11,720.2	510.1	484.9	299.9	184.93	2.622
20,805.0	8,987.4	20,877.0	8,996.4	92.1	93.0	-91.05	-11,725.2	510.1	484.9	299.9	185.01	2.621
20,900.0	8,987.4	20,972.0	8,996.4	92.9	93.7	-91.05	-11,820.2	509.3	484.9	298.4	186.44	2.601
20,995.0	8,987.4	21,067.0	8,996.4	93.6	94.4	-91.05	-11,915.2	508.5	484.9	297.0	187.87	2.581
21,000.0	8,987.4	21,072.0	8,996.4	93.6	94.4	-91.05	-11,920.2	508.4	484.9	296.9	187.95	2.580
21,090.0	8,987.5	21,162.0	8,996.5	94.3	95.1	-91.05	-12,010.2	507.7	484.9	295.6	189.31	2.561
21,100.0	8,987.5	21,172.0	8,996.5	94.4	95.2	-91.05	-12,020.2	507.6	484.9	295.4	189.46	2.559
21,185.0	8,987.5	21,257.0	8,996.5	95.0	95.8	-91.05	-12,105.2	506.9	484.9	294.1	190.74	2.542
21,200.0	8,987.5	21,272.0	8,996.5	95.1	95.9	-91.05	-12,120.2	506.8	484.9	293.9	190.96	2.539
21,280.0	8,987.6	21,352.0	8,996.6	95.7	96.5	-91.05	-12,200.2	506.1	484.9	292.7	192.17	2.523
21,300.0	8,987.6	21,372.0	8,996.6	95.9	96.7	-91.05	-12,220.2	506.0	484.9	292.4	192.47	2.519
21,375.0	8,987.6	21,447.0	8,996.6	96.5	97.2	-91.05	-12,295.2	505.3	484.9	291.3	193.60	2.505
21,400.0	8,987.6	21,472.0	8,996.6	96.6	97.4	-91.05	-12,320.2	505.1	484.9	290.9	193.98	2.500
21,470.0	8,987.7	21,542.0	8,996.7	97.2	97.9	-91.05	-12,390.2	504.6	484.9	289.8	195.04	2.486
21,500.0	8,987.7	21,572.0	8,996.7	97.4	98.2	-91.05	-12,420.2	504.3	484.9	289.4	195.49	2.480
21,565.0	8,987.7	21,637.0	8,996.7	97.9	98.7	-91.05	-12,485.2	503.8	484.9	288.4	196.47	2.468
21,600.0	8,987.7	21,672.0	8,996.7	98.2	98.9	-91.05	-12,520.2	503.5	484.9	287.9	197.00	2.461
21,660.0	8,987.8	21,732.0	8,996.8	98.6	99.4	-91.05	-12,580.2	503.0	484.9	287.0	197.91	2.450
21,700.0	8,987.8	21,772.0	8,996.8	98.9	99.7	-91.05	-12,620.2	502.7	484.9	286.4	198.51	2.443
21,755.0	8,987.8	21,827.0	8,996.8	99.3	100.1	-91.05	-12,675.2	502.2	484.9	285.5	199.34	2.432
21,800.0	8,987.8	21,872.0	8,996.8	99.7	100.4	-91.05	-12,720.2	501.8	484.9	284.9	200.02	2.424
21,850.0	8,987.8	21,922.0	8,996.8	100.1	100.8	-91.05	-12,770.2	501.4	484.9	284.1	200.78	2.415
21,900.0	8,987.9	21,972.0	8,996.9	100.4	101.2	-91.05	-12,820.2	501.0	484.9	283.4	201.53	2.406
21,945.0	8,987.9	22,017.0	8,996.9	100.8	101.5	-91.05	-12,865.2	500.6	484.9	282.7	202.21	2.398
22,000.0	8,987.9	22,072.0	8,996.9	101.2	101.9	-91.05	-12,920.2	500.2	484.9	281.8	203.04	2.388
22,040.0	8,987.9	22,112.0	8,996.9	101.5	102.2	-91.05	-12,960.1	499.9	484.9	281.2	203.65	2.381
22,100.0	8,988.0	22,172.0	8,997.0	102.0	102.7	-91.05	-13,020.1	499.4	484.9	280.3	204.55	2.370
22,135.0	8,988.0	22,207.0	8,997.0	102.2	102.9	-91.05	-13,055.1	499.1	484.9	279.8	205.08	2.364

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
22,200.0	8,988.0	22,272.0	8,997.0	102.7	103.4	-91.05	-13,120.1	498.5	484.9	278.8	206.06	2.353	
22,230.0	8,988.0	22,302.0	8,997.0	102.9	103.7	-91.05	-13,150.1	498.3	484.9	278.4	206.52	2.348	
22,300.0	8,988.1	22,372.0	8,997.1	103.5	104.2	-91.05	-13,220.1	497.7	484.9	277.3	207.58	2.336	
22,325.0	8,988.1	22,397.0	8,997.1	103.7	104.4	-91.05	-13,245.1	497.5	484.9	276.9	207.95	2.332	
22,400.0	8,988.1	22,472.0	8,997.1	104.2	104.9	-91.05	-13,320.1	496.9	484.9	275.8	209.09	2.319	
22,420.0	8,988.1	22,492.0	8,997.1	104.4	105.1	-91.05	-13,340.1	496.7	484.9	275.5	209.39	2.316	
22,500.0	8,988.1	22,572.0	8,997.1	105.0	105.7	-91.05	-13,420.1	496.1	484.9	274.3	210.60	2.302	
22,515.0	8,988.2	22,587.0	8,997.2	105.1	105.8	-91.05	-13,435.1	495.9	484.9	274.1	210.83	2.300	
22,600.0	8,988.2	22,672.0	8,997.2	105.7	106.5	-91.05	-13,520.1	495.2	484.9	272.8	212.11	2.286	
22,610.0	8,988.2	22,682.0	8,997.2	105.8	106.5	-91.05	-13,530.1	495.2	484.9	272.6	212.26	2.284	
22,700.0	8,988.2	22,772.0	8,997.2	106.5	107.2	-91.05	-13,620.1	494.4	484.9	271.3	213.62	2.270	
22,705.0	8,988.2	22,777.0	8,997.2	106.5	107.2	-91.05	-13,625.1	494.4	484.9	271.2	213.70	2.269	
22,800.0	8,988.3	22,872.0	8,997.3	107.3	108.0	-91.05	-13,720.1	493.6	484.9	269.8	215.14	2.254	
22,895.0	8,988.3	22,967.0	8,997.3	108.0	108.7	-91.05	-13,815.1	492.8	484.9	268.3	216.57	2.239	
22,900.0	8,988.3	22,972.0	8,997.3	108.0	108.7	-91.05	-13,820.1	492.8	484.9	268.2	216.65	2.238	
22,990.0	8,988.4	23,062.0	8,997.4	108.7	109.4	-91.05	-13,910.1	492.0	484.9	266.9	218.01	2.224	
23,000.0	8,988.4	23,072.0	8,997.4	108.8	109.5	-91.05	-13,920.1	491.9	484.9	266.7	218.16	2.223	
23,085.0	8,988.4	23,157.0	8,997.4	109.4	110.1	-91.05	-14,005.1	491.2	484.9	265.4	219.45	2.210	
23,100.0	8,988.4	23,172.0	8,997.4	109.5	110.2	-91.05	-14,020.1	491.1	484.9	265.2	219.68	2.207	
23,180.0	8,988.5	23,252.0	8,997.5	110.1	110.8	-91.05	-14,100.1	490.4	484.9	264.0	220.89	2.195	
23,200.0	8,988.5	23,272.0	8,997.5	110.3	111.0	-91.05	-14,120.1	490.3	484.9	263.7	221.19	2.192	
23,275.0	8,988.5	23,347.0	8,997.5	110.9	111.5	-91.05	-14,195.1	489.7	484.9	262.6	222.32	2.181	
23,300.0	8,988.5	23,372.0	8,997.5	111.0	111.7	-91.05	-14,220.1	489.5	484.9	262.2	222.70	2.177	
23,370.0	8,988.6	23,442.0	8,997.6	111.6	112.3	-91.05	-14,290.1	488.9	484.9	261.1	223.76	2.167	
23,400.0	8,988.6	23,472.0	8,997.6	111.8	112.5	-91.05	-14,320.1	488.6	484.9	260.7	224.22	2.163	
23,465.0	8,988.6	23,537.0	8,997.6	112.3	113.0	-91.05	-14,385.1	488.1	484.9	259.7	225.20	2.153	
23,500.0	8,988.6	23,572.0	8,997.6	112.6	113.2	-91.05	-14,420.1	487.8	484.9	259.2	225.73	2.148	
23,560.0	8,988.6	23,632.0	8,997.6	113.0	113.7	-91.05	-14,480.1	487.3	484.9	258.3	226.64	2.140	
23,600.0	8,988.7	23,672.0	8,997.7	113.3	114.0	-91.05	-14,520.1	487.0	484.9	257.7	227.24	2.134	
23,655.0	8,988.7	23,727.0	8,997.7	113.7	114.4	-91.05	-14,575.1	486.5	484.9	256.8	228.08	2.126	
23,700.0	8,988.7	23,772.0	8,997.7	114.1	114.7	-91.05	-14,620.1	486.2	484.9	256.1	228.76	2.120	
23,750.0	8,988.7	23,822.0	8,997.7	114.5	115.1	-91.05	-14,670.1	485.7	484.9	255.4	229.52	2.113	
23,800.0	8,988.8	23,872.0	8,997.8	114.8	115.5	-91.05	-14,720.1	485.3	484.9	254.6	230.27	2.106	
23,845.0	8,988.8	23,917.0	8,997.8	115.2	115.8	-91.05	-14,765.1	485.0	484.9	253.9	230.96	2.100	
23,900.0	8,988.8	23,972.0	8,997.8	115.6	116.3	-91.05	-14,820.1	484.5	484.9	253.1	231.79	2.092	
23,940.0	8,988.8	24,012.0	8,997.8	115.9	116.6	-91.05	-14,860.1	484.2	484.9	252.5	232.39	2.087	
24,000.0	8,988.8	24,072.0	8,997.8	116.4	117.0	-91.05	-14,920.1	483.7	484.9	251.6	233.30	2.078	
24,035.0	8,988.9	24,107.0	8,997.9	116.6	117.3	-91.05	-14,955.1	483.4	484.9	251.1	233.83	2.074	
24,100.0	8,988.9	24,172.0	8,997.9	117.1	117.8	-91.05	-15,020.1	482.9	484.9	250.1	234.82	2.065	
24,130.0	8,988.9	24,202.0	8,997.9	117.3	118.0	-91.05	-15,050.1	482.6	484.9	249.6	235.27	2.061	
24,190.8	8,988.9	24,262.8	8,997.9	117.8	118.5	-91.05	-15,110.9	482.1	484.9	248.7	236.19	2.053	
24,200.0	8,988.9	24,272.0	8,997.9	117.9	118.5	-91.05	-15,120.1	482.0	484.9	248.6	236.33	2.052	
24,225.0	8,989.0	24,297.0	8,997.9	118.1	118.7	-91.05	-15,145.1	481.8	484.9	248.2	236.71	2.049	
24,300.0	8,989.0	24,372.0	8,998.0	118.6	119.3	-91.05	-15,220.1	481.2	484.9	247.1	237.85	2.039	
24,320.0	8,989.0	24,392.0	8,998.0	118.8	119.4	-91.05	-15,240.1	481.0	484.9	246.8	238.15	2.036	
24,320.8	8,989.0	24,392.8	8,998.0	118.8	119.4	-91.05	-15,240.9	481.0	484.9	246.7	238.16	2.036 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 #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	0.1	0.1	3.0	3.0	-91.15	-0.6	-30.0	30.0				
95.0	95.0	95.1	95.1	3.0	3.0	-91.15	-0.6	-30.0	30.0	24.0	6.04	4.971	
100.0	100.0	100.1	100.1	3.0	3.0	-91.15	-0.6	-30.0	30.0	24.0	6.04	4.967	
190.0	190.0	190.1	190.1	3.1	3.1	-91.15	-0.6	-30.0	30.0	23.8	6.25	4.799	
200.0	200.0	200.1	200.1	3.1	3.1	-91.15	-0.6	-30.0	30.0	23.7	6.29	4.773	
285.0	285.0	285.1	285.1	3.3	3.3	-91.15	-0.6	-30.0	30.0	23.5	6.48	4.628	
300.0	300.0	300.1	300.1	3.3	3.3	-91.15	-0.6	-30.0	30.0	23.5	6.52	4.600	
380.0	380.0	380.1	380.1	3.4	3.4	-91.15	-0.6	-30.0	30.0	23.3	6.70	4.477	
400.0	400.0	400.1	400.1	3.4	3.4	-91.15	-0.6	-30.0	30.0	23.3	6.75	4.445	
475.0	475.0	475.1	475.1	3.5	3.5	-91.15	-0.6	-30.0	30.0	23.1	6.91	4.340	
500.0	500.0	500.1	500.1	3.5	3.5	-91.15	-0.6	-30.0	30.0	23.0	6.97	4.304	
570.0	570.0	570.1	570.1	3.6	3.6	-91.15	-0.6	-30.0	30.0	22.9	7.12	4.215	
600.0	600.0	600.1	600.1	3.6	3.6	-91.15	-0.6	-30.0	30.0	22.8	7.18	4.176	
665.0	665.0	665.1	665.1	3.7	3.7	-91.15	-0.6	-30.0	30.0	22.7	7.32	4.100	
700.0	700.0	700.1	700.1	3.8	3.8	-91.15	-0.6	-30.0	30.0	22.6	7.39	4.059	
760.0	760.0	760.1	760.1	3.8	3.8	-91.15	-0.6	-30.0	30.0	22.5	7.51	3.994	
800.0	800.0	800.1	800.1	3.9	3.9	-91.15	-0.6	-30.0	30.0	22.4	7.59	3.951	
855.0	855.0	855.1	855.1	4.0	4.0	-91.15	-0.6	-30.0	30.0	22.3	7.70	3.896	
900.0	900.0	900.1	900.1	4.0	4.0	-91.15	-0.6	-30.0	30.0	22.2	7.79	3.852	
950.0	950.0	950.1	950.1	4.1	4.1	-91.15	-0.6	-30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	1,000.1	1,000.1	4.1	4.1	-91.15	-0.6	-30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,045.1	1,045.1	4.2	4.2	-91.15	-0.6	-30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,100.1	1,100.1	4.2	4.2	-91.15	-0.6	-30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,140.1	1,140.1	4.3	4.3	-91.15	-0.6	-30.0	30.0	21.8	8.24	3.640	
1,200.0	1,200.0	1,200.1	1,200.1	4.4	4.4	-91.15	-0.6	-30.0	30.0	21.7	8.35	3.592	
1,235.0	1,235.0	1,235.1	1,235.1	4.4	4.4	-91.15	-0.6	-30.0	30.0	21.6	8.42	3.566	
1,300.0	1,300.0	1,300.1	1,300.1	4.5	4.5	-91.15	-0.6	-30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,330.1	1,330.1	4.5	4.5	-91.15	-0.6	-30.0	30.0	21.4	8.58	3.495	
1,400.0	1,400.0	1,400.1	1,400.1	4.6	4.6	-91.15	-0.6	-30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,425.1	1,425.1	4.6	4.6	-91.15	-0.6	-30.0	30.0	21.3	8.75	3.429	
1,437.5	1,437.5	1,437.6	1,437.6	4.6	4.6	-91.15	-0.6	-30.0	30.0	21.2	8.77	3.421 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-91.15	-0.6	-30.0	30.0	21.1	8.88	3.379 ES	
1,520.0	1,520.0	1,520.0	1,520.0	4.8	4.7	-112.05	-0.6	-30.0	30.1	21.2	8.93	3.370	
1,600.0	1,600.0	1,599.3	1,599.3	4.9	4.9	-112.68	0.6	-31.2	31.9	22.8	9.11	3.499	
1,615.0	1,615.0	1,614.2	1,614.2	5.0	4.9	-112.87	1.0	-31.6	32.5	23.3	9.17	3.543	
1,700.0	1,699.8	1,698.3	1,698.2	5.2	5.1	-114.25	4.2	-34.9	37.5	28.0	9.50	3.950	
1,710.0	1,709.8	1,708.2	1,708.0	5.2	5.1	-114.42	4.7	-35.4	38.3	28.8	9.54	4.015	
1,800.0	1,799.5	1,796.9	1,796.4	5.4	5.4	-115.99	10.1	-41.1	47.0	37.1	9.90	4.747	
1,805.0	1,804.4	1,801.8	1,801.3	5.5	5.4	-116.07	10.4	-41.4	47.5	37.6	9.91	4.798	
1,850.0	1,849.1	1,846.0	1,845.1	5.5	5.5	-116.78	13.9	-45.0	53.1	43.1	10.04	5.288	
1,900.0	1,898.8	1,894.9	1,893.7	5.6	5.7	-117.23	18.3	-49.5	60.0	49.8	10.19	5.887	
1,995.0	1,993.0	1,988.0	1,985.7	5.8	5.8	-116.60	28.1	-59.6	74.4	63.9	10.46	7.110	
2,000.0	1,998.0	1,993.0	1,990.6	5.8	5.8	-116.55	28.6	-60.2	75.2	64.7	10.48	7.175	
2,090.0	2,087.3	2,081.9	2,078.4	6.1	6.1	-115.90	38.3	-70.2	89.1	78.3	10.81	8.243	
2,100.0	2,097.3	2,091.7	2,088.1	6.1	6.1	-115.84	39.3	-71.3	90.7	79.8	10.85	8.357	
2,185.0	2,181.6	2,175.7	2,171.1	6.3	6.3	-115.40	48.5	-80.7	103.9	92.7	11.19	9.287	
2,200.0	2,196.5	2,190.5	2,185.7	6.4	6.4	-115.34	50.1	-82.4	106.2	95.0	11.25	9.445	
2,280.0	2,275.9	2,269.5	2,263.8	6.6	6.6	-115.03	58.7	-91.3	118.7	107.1	11.57	10.256	
2,300.0	2,295.8	2,289.3	2,283.3	6.6	6.6	-114.96	60.8	-93.5	121.8	110.1	11.65	10.450	
2,375.0	2,370.2	2,363.4	2,356.4	6.9	6.9	-114.74	68.9	-101.9	133.4	121.5	11.96	11.153	
2,400.0	2,395.0	2,388.1	2,380.8	6.9	7.0	-114.67	71.6	-104.6	137.3	125.2	12.07	11.379	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft					
Measured	Reference	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
2,470.0	2,464.5	2,457.2	2,449.1	7.2	7.2	-114.50	79.1	-112.4	148.2	135.8	12.36	11.986			
2,500.0	2,494.3	2,486.9	2,478.4	7.3	7.3	-114.44	82.3	-115.7	152.9	140.4	12.49	12.236			
2,565.0	2,558.8	2,551.1	2,541.8	7.5	7.5	-114.31	89.3	-123.0	163.0	150.2	12.77	12.759			
2,600.0	2,593.5	2,585.6	2,576.0	7.6	7.6	-114.25	93.1	-126.9	168.4	155.5	12.93	13.029			
2,660.0	2,653.1	2,644.9	2,634.5	7.8	7.8	-114.15	99.5	-133.5	177.7	164.6	13.19	13.477			
2,700.0	2,692.8	2,684.4	2,673.5	7.9	8.0	-114.09	103.8	-138.0	184.0	170.6	13.37	13.764			
2,755.0	2,747.4	2,738.8	2,727.2	8.1	8.2	-114.02	109.7	-144.1	192.5	178.9	13.61	14.145			
2,800.0	2,792.1	2,783.2	2,771.1	8.3	8.3	-113.96	114.5	-149.1	199.5	185.7	13.81	14.445			
2,850.0	2,841.7	2,832.6	2,819.9	8.4	8.5	-113.90	119.9	-154.6	207.3	193.3	14.04	14.767			
2,900.0	2,891.3	2,882.0	2,868.7	8.6	8.7	-113.85	125.3	-160.2	215.1	200.8	14.26	15.077			
2,945.0	2,936.0	2,926.4	2,912.6	8.8	8.8	-113.80	130.1	-165.2	222.1	207.6	14.47	15.347			
3,000.0	2,990.6	2,980.8	2,966.2	9.0	9.1	-113.75	136.0	-171.3	230.6	215.9	14.72	15.665			
3,040.0	3,030.3	3,020.3	3,005.3	9.1	9.2	-113.71	140.3	-175.7	236.8	221.9	14.91	15.889			
3,100.0	3,089.8	3,079.6	3,063.8	9.3	9.4	-113.66	146.8	-182.4	246.2	231.0	15.18	16.212			
3,135.0	3,124.6	3,114.1	3,097.9	9.4	9.6	-113.63	150.5	-186.3	251.6	236.3	15.35	16.395			
3,200.0	3,189.1	3,178.3	3,161.4	9.7	9.8	-113.59	157.5	-193.5	261.7	246.1	15.65	16.723			
3,230.0	3,218.8	3,208.0	3,190.6	9.8	9.9	-113.57	160.7	-196.9	266.4	250.6	15.79	16.870			
3,300.0	3,288.3	3,277.1	3,258.9	10.0	10.2	-113.52	168.3	-204.6	277.3	261.2	16.12	17.200			
3,325.0	3,313.1	3,301.8	3,283.3	10.1	10.3	-113.50	171.0	-207.4	281.2	264.9	16.24	17.314			
3,400.0	3,387.6	3,375.9	3,356.5	10.4	10.6	-113.46	179.0	-215.7	292.8	276.3	16.60	17.646			
3,420.0	3,407.4	3,395.7	3,376.0	10.5	10.7	-113.45	181.2	-218.0	296.0	279.3	16.69	17.732			
3,500.0	3,486.8	3,474.7	3,454.1	10.8	11.0	-113.41	189.8	-226.9	308.4	291.3	17.07	18.064			
3,515.0	3,501.7	3,489.5	3,468.7	10.9	11.0	-113.40	191.4	-228.5	310.7	293.6	17.14	18.124			
3,600.0	3,586.1	3,573.5	3,551.6	11.2	11.4	-113.36	200.5	-238.0	324.0	306.4	17.55	18.456			
3,610.0	3,596.0	3,583.3	3,561.4	11.2	11.4	-113.35	201.6	-239.1	325.5	307.9	17.60	18.494			
3,700.0	3,685.3	3,672.3	3,649.2	11.6	11.8	-113.31	211.2	-249.1	339.5	321.5	18.04	18.824			
3,705.0	3,690.3	3,677.2	3,654.1	11.6	11.8	-113.31	211.8	-249.6	340.3	322.2	18.06	18.842			
3,800.0	3,784.6	3,771.0	3,746.8	11.9	12.2	-113.27	222.0	-260.2	355.1	336.6	18.52	19.171			
3,895.0	3,878.9	3,864.9	3,839.4	12.3	12.6	-113.24	232.2	-270.7	369.9	350.9	18.98	19.482			
3,900.0	3,883.9	3,869.8	3,844.3	12.3	12.6	-113.24	232.7	-271.3	370.6	351.6	19.01	19.498			
3,990.0	3,973.2	3,958.7	3,932.1	12.7	13.0	-113.21	242.4	-281.3	384.6	365.2	19.45	19.776			
4,000.0	3,983.1	3,968.6	3,941.9	12.7	13.0	-113.20	243.5	-282.4	386.2	366.7	19.50	19.806			
4,085.0	4,067.5	4,052.6	4,024.8	13.0	13.3	-113.18	252.6	-291.9	399.4	379.5	19.92	20.054			
4,100.0	4,082.4	4,067.4	4,039.5	13.1	13.4	-113.17	254.2	-293.5	401.7	381.8	19.99	20.097			
4,180.0	4,161.8	4,146.4	4,117.5	13.4	13.7	-113.15	262.8	-302.4	414.2	393.8	20.39	20.316			
4,198.2	4,179.8	4,164.4	4,135.2	13.5	13.8	-113.14	264.8	-304.4	417.0	396.5	20.48	20.364			
4,200.0	4,181.6	4,166.2	4,137.0	13.5	13.8	-113.14	265.0	-304.6	417.3	396.8	20.49	20.370			
4,275.0	4,256.1	4,242.0	4,211.9	13.8	14.1	-113.17	273.1	-313.1	428.7	407.8	20.86	20.547			
4,300.0	4,281.0	4,268.0	4,237.7	13.9	14.2	-113.17	275.8	-315.9	432.3	411.3	20.99	20.594			
4,370.0	4,350.6	4,341.2	4,310.2	14.2	14.5	-113.14	283.0	-323.2	441.8	420.4	21.34	20.697			
4,400.0	4,380.5	4,372.7	4,341.3	14.3	14.7	-113.13	285.8	-326.2	445.5	424.0	21.50	20.727			
4,465.0	4,445.3	4,440.9	4,409.0	14.5	14.9	-113.07	291.6	-332.2	453.1	431.3	21.81	20.770			
4,500.0	4,480.2	4,477.7	4,445.6	14.6	15.1	-113.04	294.5	-335.2	456.8	434.8	21.99	20.778			
4,560.0	4,540.1	4,540.9	4,508.5	14.8	15.3	-112.96	299.1	-339.9	462.7	440.4	22.27	20.776			
4,600.0	4,580.0	4,583.1	4,550.5	15.0	15.5	-112.90	301.9	-342.8	466.2	443.7	22.46	20.759			
4,655.0	4,635.0	4,641.3	4,608.4	15.1	15.7	-112.80	305.4	-346.5	470.5	447.8	22.70	20.723			
4,700.0	4,679.9	4,688.9	4,655.9	15.3	15.9	-112.71	308.0	-349.1	473.6	450.7	22.90	20.676			
4,750.0	4,729.9	4,741.8	4,708.7	15.4	16.1	-112.60	310.5	-351.7	476.6	453.4	23.12	20.616			
4,800.0	4,779.9	4,794.8	4,761.6	15.6	16.3	-112.48	312.7	-354.0	479.0	455.7	23.33	20.537			
4,845.0	4,824.9	4,842.6	4,809.3	15.7	16.4	-112.36	314.4	-355.7	480.9	457.4	23.49	20.469			
4,898.1	4,878.0	4,899.0	4,865.7	15.7	16.6	-91.33	316.0	-357.4	482.5	458.8	23.69	20.370			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Warning
4,900.0	4,879.9	4,901.0	4,867.7	15.7	16.6	-91.32	316.1	-357.5	482.6	458.9	23.69	20.368	
4,940.0	4,919.9	4,943.5	4,910.1	15.8	16.7	-91.21	317.0	-358.5	483.5	459.7	23.82	20.297	
5,000.0	4,979.9	5,007.3	4,973.9	15.8	16.9	-91.08	318.1	-359.5	484.5	460.5	24.00	20.182	
5,035.0	5,014.9	5,044.5	5,011.1	15.8	17.0	-91.03	318.4	-359.9	484.8	460.7	24.09	20.129	
5,100.0	5,079.9	5,113.4	5,080.0	15.9	17.1	-91.00	318.7	-360.2	485.1	460.8	24.23	20.018	
5,130.0	5,109.9	5,143.4	5,110.0	15.9	17.1	-91.00	318.7	-360.2	485.1	460.8	24.27	19.983	
5,200.0	5,179.9	5,213.4	5,180.0	15.9	17.1	-91.00	318.7	-360.2	485.1	460.7	24.38	19.899	
5,225.0	5,204.9	5,238.4	5,205.0	15.9	17.1	-91.00	318.7	-360.2	485.1	460.7	24.41	19.869	
5,300.0	5,279.9	5,313.4	5,280.0	16.0	17.2	-91.00	318.7	-360.2	485.1	460.5	24.53	19.777	
5,320.0	5,299.9	5,333.4	5,300.0	16.0	17.2	-91.00	318.7	-360.2	485.1	460.5	24.56	19.752	
5,400.0	5,379.9	5,413.4	5,380.0	16.0	17.2	-91.00	318.7	-360.2	485.1	460.4	24.68	19.656	
5,415.0	5,394.9	5,428.4	5,395.0	16.0	17.2	-91.00	318.7	-360.2	485.1	460.4	24.70	19.638	
5,500.0	5,479.9	5,513.4	5,480.0	16.1	17.3	-91.00	318.7	-360.2	485.1	460.2	24.83	19.536	
5,510.0	5,489.9	5,523.4	5,490.0	16.1	17.3	-91.00	318.7	-360.2	485.1	460.2	24.84	19.524	
5,600.0	5,579.9	5,613.4	5,580.0	16.2	17.3	-91.00	318.7	-360.2	485.1	460.1	24.98	19.418	
5,605.0	5,584.9	5,618.4	5,585.0	16.2	17.3	-91.00	318.7	-360.2	485.1	460.1	24.99	19.412	
5,700.0	5,679.9	5,713.4	5,680.0	16.2	17.4	-91.00	318.7	-360.2	485.1	459.9	25.13	19.301	
5,795.0	5,774.9	5,808.4	5,775.0	16.3	17.5	-91.00	318.7	-360.2	485.1	459.8	25.28	19.191	
5,800.0	5,779.9	5,813.4	5,780.0	16.3	17.5	-91.00	318.7	-360.2	485.1	459.8	25.28	19.185	
5,890.0	5,869.9	5,903.4	5,870.0	16.3	17.5	-91.00	318.7	-360.2	485.1	459.7	25.42	19.082	
5,900.0	5,879.9	5,913.4	5,880.0	16.3	17.5	-91.00	318.7	-360.2	485.1	459.6	25.44	19.071	
5,985.0	5,964.9	5,998.4	5,965.0	16.4	17.6	-91.00	318.7	-360.2	485.1	459.5	25.56	18.975	
6,000.0	5,979.9	6,013.4	5,980.0	16.4	17.6	-91.00	318.7	-360.2	485.1	459.5	25.59	18.958	
6,080.0	6,059.9	6,093.4	6,060.0	16.5	17.6	-91.00	318.7	-360.2	485.1	459.4	25.71	18.868	
6,100.0	6,079.9	6,113.4	6,080.0	16.5	17.6	-91.00	318.7	-360.2	485.1	459.3	25.74	18.846	
6,175.0	6,154.9	6,188.4	6,155.0	16.5	17.7	-91.00	318.7	-360.2	485.1	459.2	25.85	18.763	
6,200.0	6,179.9	6,213.4	6,180.0	16.5	17.7	-91.00	318.7	-360.2	485.1	459.2	25.89	18.736	
6,270.0	6,249.9	6,283.4	6,250.0	16.6	17.7	-91.00	318.7	-360.2	485.1	459.1	26.00	18.659	
6,300.0	6,279.9	6,313.4	6,280.0	16.6	17.7	-91.00	318.7	-360.2	485.1	459.0	26.04	18.626	
6,365.0	6,344.9	6,378.4	6,345.0	16.6	17.8	-91.00	318.7	-360.2	485.1	458.9	26.14	18.556	
6,400.0	6,379.9	6,413.4	6,380.0	16.7	17.8	-91.00	318.7	-360.2	485.1	458.9	26.19	18.518	
6,460.0	6,439.9	6,473.4	6,440.0	16.7	17.8	-91.00	318.7	-360.2	485.1	458.8	26.29	18.454	
6,500.0	6,479.9	6,513.4	6,480.0	16.7	17.8	-91.00	318.7	-360.2	485.1	458.7	26.35	18.411	
6,555.0	6,534.9	6,568.4	6,535.0	16.7	17.9	-91.00	318.7	-360.2	485.1	458.6	26.43	18.353	
6,600.0	6,579.9	6,613.4	6,580.0	16.8	17.9	-91.00	318.7	-360.2	485.1	458.6	26.50	18.305	
6,650.0	6,629.9	6,663.4	6,630.0	16.8	17.9	-91.00	318.7	-360.2	485.1	458.5	26.57	18.253	
6,700.0	6,679.9	6,713.4	6,680.0	16.8	17.9	-91.00	318.7	-360.2	485.1	458.4	26.65	18.201	
6,745.0	6,724.9	6,758.4	6,725.0	16.9	18.0	-91.00	318.7	-360.2	485.1	458.4	26.72	18.154	
6,800.0	6,779.9	6,813.4	6,780.0	16.9	18.0	-91.00	318.7	-360.2	485.1	458.3	26.80	18.097	
6,840.0	6,819.9	6,853.4	6,820.0	16.9	18.0	-91.00	318.7	-360.2	485.1	458.2	26.86	18.056	
6,900.0	6,879.9	6,913.4	6,880.0	17.0	18.1	-91.00	318.7	-360.2	485.1	458.1	26.96	17.995	
6,935.0	6,914.9	6,948.4	6,915.0	17.0	18.1	-91.00	318.7	-360.2	485.1	458.1	27.01	17.960	
7,000.0	6,979.9	7,013.4	6,980.0	17.0	18.1	-91.00	318.7	-360.2	485.1	458.0	27.11	17.894	
7,030.0	7,009.9	7,043.4	7,010.0	17.0	18.1	-91.00	318.7	-360.2	485.1	457.9	27.15	17.864	
7,100.0	7,079.9	7,113.4	7,080.0	17.1	18.2	-91.00	318.7	-360.2	485.1	457.8	27.26	17.794	
7,125.0	7,104.9	7,138.4	7,105.0	17.1	18.2	-91.00	318.7	-360.2	485.1	457.8	27.30	17.769	
7,200.0	7,179.9	7,213.4	7,180.0	17.2	18.2	-91.00	318.7	-360.2	485.1	457.7	27.41	17.695	
7,220.0	7,199.9	7,233.4	7,200.0	17.2	18.2	-91.00	318.7	-360.2	485.1	457.6	27.44	17.675	
7,300.0	7,279.9	7,313.4	7,280.0	17.2	18.3	-91.00	318.7	-360.2	485.1	457.5	27.57	17.596	
7,315.0	7,294.9	7,328.4	7,295.0	17.2	18.3	-91.00	318.7	-360.2	485.1	457.5	27.59	17.582	
7,400.0	7,379.9	7,413.4	7,380.0	17.3	18.3	-91.00	318.7	-360.2	485.1	457.4	27.72	17.499	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,410.0	7,389.9	7,423.4	7,390.0	17.3	18.3	-91.00	318.7	-360.2	485.1	457.3	27.73	17.490		
7,500.0	7,479.9	7,513.4	7,480.0	17.3	18.4	-91.00	318.7	-360.2	485.1	457.2	27.87	17.403		
7,505.0	7,484.9	7,518.4	7,485.0	17.3	18.4	-91.00	318.7	-360.2	485.1	457.2	27.88	17.399		
7,600.0	7,579.9	7,613.4	7,580.0	17.4	18.5	-91.00	318.7	-360.2	485.1	457.0	28.03	17.308		
7,695.0	7,674.9	7,708.4	7,675.0	17.5	18.5	-91.00	318.7	-360.2	485.1	456.9	28.17	17.219		
7,700.0	7,679.9	7,713.4	7,680.0	17.5	18.5	-91.00	318.7	-360.2	485.1	456.9	28.18	17.214		
7,790.0	7,769.9	7,803.4	7,770.0	17.5	18.6	-91.00	318.7	-360.2	485.1	456.8	28.32	17.131		
7,800.0	7,779.9	7,813.4	7,780.0	17.5	18.6	-91.00	318.7	-360.2	485.1	456.7	28.33	17.121		
7,885.0	7,864.9	7,898.4	7,865.0	17.6	18.6	-91.00	318.7	-360.2	485.1	456.6	28.46	17.043		
7,900.0	7,879.9	7,913.4	7,880.0	17.6	18.6	-91.00	318.7	-360.2	485.1	456.6	28.48	17.029		
7,980.0	7,959.9	7,993.4	7,960.0	17.7	18.7	-91.00	318.7	-360.2	485.1	456.5	28.61	16.956		
8,000.0	7,979.9	8,013.4	7,980.0	17.7	18.7	-91.00	318.7	-360.2	485.1	456.4	28.64	16.938		
8,075.0	8,054.9	8,088.4	8,055.0	17.7	18.7	-91.00	318.7	-360.2	485.1	456.3	28.75	16.870		
8,100.0	8,079.9	8,113.4	8,080.0	17.7	18.7	-91.00	318.7	-360.2	485.1	456.3	28.79	16.848		
8,170.0	8,149.9	8,183.4	8,150.0	17.8	18.8	-91.00	318.7	-360.2	485.1	456.2	28.90	16.785		
8,200.0	8,179.9	8,213.4	8,180.0	17.8	18.8	-91.00	318.7	-360.2	485.1	456.1	28.95	16.758		
8,265.0	8,244.9	8,278.4	8,245.0	17.8	18.8	-91.00	318.7	-360.2	485.1	456.0	29.05	16.701		
8,300.0	8,279.9	8,313.4	8,280.0	17.9	18.9	-91.00	318.7	-360.2	485.1	456.0	29.10	16.670		
8,360.0	8,339.9	8,373.4	8,340.0	17.9	18.9	-91.00	318.7	-360.2	485.1	455.9	29.19	16.617		
8,400.0	8,379.9	8,413.4	8,380.0	17.9	18.9	-91.00	318.7	-360.2	485.1	455.8	29.25	16.586		
8,402.6	8,382.5	8,416.0	8,382.6	17.9	18.9	-91.00	318.7	-360.2	485.1	455.8	29.25	16.585		
8,429.2	8,409.0	8,442.3	8,408.9	17.9	18.9	-91.01	318.6	-360.2	485.1	455.8	29.26	16.576		
8,450.0	8,429.9	8,462.7	8,429.3	17.9	18.9	88.47	317.9	-360.2	485.1	455.8	29.27	16.573		
8,455.0	8,434.9	8,467.6	8,434.2	18.0	18.9	88.46	317.6	-360.2	485.1	455.8	29.27	16.572		
8,500.0	8,479.7	8,511.5	8,477.9	18.0	19.0	88.38	313.2	-360.2	485.1	455.8	29.28	16.566		
8,550.0	8,529.0	8,560.3	8,525.9	18.1	19.0	88.30	304.5	-360.3	485.1	455.8	29.29	16.561		
8,600.0	8,577.4	8,609.1	8,572.9	18.1	19.0	88.23	291.7	-360.4	485.1	455.8	29.30	16.559		
8,645.0	8,619.8	8,652.9	8,614.2	18.2	19.1	88.19	276.8	-360.5	485.2	455.9	29.30	16.557		
8,650.0	8,624.5	8,657.8	8,618.7	18.2	19.1	88.18	274.9	-360.6	485.2	455.9	29.30	16.557		
8,700.0	8,669.9	8,706.5	8,662.8	18.3	19.1	88.14	254.4	-360.7	485.2	455.9	29.30	16.557		
8,740.0	8,704.9	8,745.4	8,696.7	18.3	19.2	88.12	235.3	-360.9	485.2	455.9	29.31	16.556		
8,750.0	8,713.4	8,755.1	8,705.0	18.3	19.2	88.11	230.2	-360.9	485.2	455.9	29.31	16.555		
8,800.0	8,754.5	8,803.8	8,744.9	18.4	19.2	88.10	202.5	-361.2	485.2	455.9	29.31	16.552		
8,835.0	8,781.8	8,837.8	8,771.4	18.5	19.2	88.10	181.2	-361.3	485.2	455.9	29.32	16.547		
8,850.0	8,793.1	8,852.4	8,782.4	18.5	19.3	88.10	171.5	-361.4	485.2	455.9	29.32	16.545		
8,900.0	8,828.7	8,901.0	8,817.1	18.6	19.3	88.12	137.5	-361.7	485.2	455.8	29.34	16.534		
8,930.0	8,848.5	8,930.2	8,836.5	18.6	19.3	88.14	115.7	-361.9	485.2	455.8	29.36	16.524		
8,950.0	8,861.1	8,950.0	8,849.0	18.6	19.4	88.15	100.4	-362.0	485.2	455.8	29.37	16.518		
9,000.0	8,890.0	8,998.4	8,877.4	18.7	19.4	88.19	61.2	-362.3	485.2	455.7	29.42	16.493		
9,025.0	8,903.1	9,022.7	8,890.3	18.7	19.4	88.22	40.6	-362.5	485.1	455.7	29.44	16.477		
9,050.0	8,915.3	9,047.1	8,902.4	18.7	19.5	88.25	19.4	-362.7	485.1	455.7	29.47	16.461		
9,100.0	8,936.8	9,095.9	8,923.9	18.8	19.5	88.32	-24.4	-363.0	485.1	455.6	29.54	16.420		
9,120.0	8,944.2	9,115.4	8,931.4	18.8	19.5	88.35	-42.4	-363.2	485.1	455.5	29.58	16.400		
9,150.0	8,954.2	9,144.7	8,941.5	18.8	19.5	88.40	-69.8	-363.4	485.1	455.5	29.64	16.369		
9,200.0	8,967.5	9,193.5	8,955.3	18.9	19.6	88.50	-116.7	-363.8	485.1	455.3	29.74	16.309		
9,215.0	8,970.7	9,208.2	8,958.6	18.9	19.6	88.53	-131.0	-363.9	485.1	455.3	29.78	16.288		
9,250.0	8,976.5	9,242.5	8,965.0	18.9	19.6	88.60	-164.7	-364.2	485.1	455.2	29.87	16.238		
9,300.0	8,981.3	9,291.5	8,970.5	18.9	19.7	88.72	-213.4	-364.6	485.0	455.0	30.02	16.159		
9,310.0	8,981.7	9,301.3	8,971.2	18.9	19.7	88.74	-223.2	-364.7	485.0	455.0	30.05	16.143		
9,328.9	8,982.0	9,319.9	8,971.9	18.9	19.7	88.79	-241.7	-364.8	485.0	454.9	30.11	16.111		
9,357.8	8,982.0	9,348.6	8,972.0	18.9	19.7	88.81	-270.4	-365.1	485.0	454.8	30.21	16.056		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,400.0	8,982.0	9,390.8	8,972.0	18.9	19.8	88.81	-312.6	-365.4	485.0	454.7	30.36	15.974	
9,405.0	8,982.0	9,395.8	8,972.0	18.9	19.8	88.81	-317.6	-365.5	485.0	454.6	30.38	15.963	
9,500.0	8,982.1	9,490.8	8,972.1	19.0	19.9	88.81	-412.6	-366.2	485.0	454.2	30.81	15.744	
9,595.0	8,982.1	9,585.8	8,972.2	19.0	20.0	88.81	-507.6	-367.0	485.0	453.7	31.30	15.498	
9,600.0	8,982.1	9,590.8	8,972.2	19.0	20.0	88.81	-512.6	-367.1	485.0	453.7	31.32	15.485	
9,690.0	8,982.2	9,680.8	8,972.2	19.1	20.1	88.81	-602.6	-367.8	485.0	453.2	31.84	15.232	
9,700.0	8,982.2	9,690.8	8,972.2	19.1	20.2	88.81	-612.6	-367.9	485.0	453.1	31.90	15.204	
9,785.0	8,982.2	9,775.8	8,972.3	19.1	20.3	88.81	-697.6	-368.6	485.0	452.6	32.44	14.949	
9,800.0	8,982.2	9,790.8	8,972.3	19.1	20.3	88.81	-712.6	-368.7	485.0	452.5	32.54	14.905	
9,880.0	8,982.3	9,870.8	8,972.3	19.2	20.5	88.81	-792.6	-369.4	485.0	451.9	33.10	14.654	
9,900.0	8,982.3	9,890.8	8,972.3	19.2	20.5	88.81	-812.6	-369.5	485.0	451.8	33.24	14.592	
9,975.0	8,982.3	9,965.8	8,972.4	19.2	20.6	88.82	-887.6	-370.2	485.0	451.2	33.80	14.348	
10,000.0	8,982.3	9,990.8	8,972.4	19.3	20.7	88.82	-912.6	-370.4	485.0	451.0	33.99	14.269	
10,070.0	8,982.3	10,060.8	8,972.4	19.3	20.9	88.82	-982.6	-371.0	485.0	450.5	34.55	14.037	
10,100.0	8,982.4	10,090.8	8,972.5	19.4	20.9	88.82	-1,012.6	-371.2	485.0	450.2	34.80	13.939	
10,165.0	8,982.4	10,155.8	8,972.5	19.4	21.1	88.82	-1,077.6	-371.7	485.0	449.7	35.35	13.721	
10,200.0	8,982.4	10,190.8	8,972.5	19.5	21.2	88.82	-1,112.6	-372.0	485.0	449.4	35.65	13.606	
10,260.0	8,982.4	10,250.8	8,972.6	19.6	21.3	88.82	-1,172.6	-372.5	485.0	448.8	36.18	13.404	
10,300.0	8,982.5	10,290.8	8,972.6	19.6	21.4	88.82	-1,212.6	-372.9	485.0	448.5	36.54	13.273	
10,355.0	8,982.5	10,345.8	8,972.6	19.7	21.6	88.82	-1,267.6	-373.3	485.0	448.0	37.06	13.089	
10,400.0	8,982.5	10,390.8	8,972.6	19.8	21.7	88.82	-1,312.6	-373.7	485.0	447.5	37.48	12.941	
10,450.0	8,982.5	10,440.8	8,972.7	19.9	21.9	88.82	-1,362.5	-374.1	485.0	447.1	37.96	12.776	
10,500.0	8,982.5	10,490.8	8,972.7	20.0	22.1	88.82	-1,412.5	-374.5	485.0	446.6	38.45	12.614	
10,545.0	8,982.6	10,535.8	8,972.7	20.1	22.2	88.83	-1,457.5	-374.9	485.0	446.1	38.91	12.467	
10,600.0	8,982.6	10,590.8	8,972.8	20.2	22.4	88.83	-1,512.5	-375.3	485.0	445.6	39.46	12.291	
10,640.0	8,982.6	10,630.8	8,972.8	20.3	22.6	88.83	-1,552.5	-375.7	485.0	445.1	39.88	12.163	
10,700.0	8,982.6	10,690.8	8,972.8	20.5	22.8	88.83	-1,612.5	-376.2	485.0	444.5	40.50	11.975	
10,735.0	8,982.7	10,725.8	8,972.8	20.6	22.9	88.83	-1,647.5	-376.4	485.0	444.1	40.88	11.866	
10,800.0	8,982.7	10,790.8	8,972.9	20.9	23.2	88.83	-1,712.5	-377.0	485.0	443.4	41.57	11.667	
10,830.0	8,982.7	10,820.8	8,972.9	21.0	23.3	88.83	-1,742.5	-377.2	485.0	443.1	41.90	11.575	
10,900.0	8,982.7	10,890.8	8,972.9	21.2	23.6	88.83	-1,812.5	-377.8	485.0	442.3	42.67	11.366	
10,925.0	8,982.7	10,915.8	8,973.0	21.4	23.7	88.83	-1,837.5	-378.0	485.0	442.1	42.95	11.292	
11,000.0	8,982.8	10,990.8	8,973.0	21.7	24.0	88.83	-1,912.5	-378.6	485.0	441.2	43.80	11.074	
11,020.0	8,982.8	11,010.8	8,973.0	21.8	24.1	88.83	-1,932.5	-378.8	485.0	441.0	44.03	11.017	
11,100.0	8,982.8	11,090.8	8,973.1	22.2	24.5	88.83	-2,012.5	-379.5	485.0	440.1	44.94	10.791	
11,115.0	8,982.8	11,105.8	8,973.1	22.2	24.6	88.83	-2,027.5	-379.6	485.0	439.9	45.12	10.750	
11,200.0	8,982.9	11,190.8	8,973.1	22.7	25.0	88.84	-2,112.5	-380.3	485.0	438.9	46.12	10.518	
11,210.0	8,982.9	11,200.8	8,973.1	22.7	25.0	88.84	-2,122.5	-380.4	485.0	438.8	46.23	10.491	
11,300.0	8,982.9	11,290.8	8,973.2	23.2	25.5	88.84	-2,212.5	-381.1	485.0	437.7	47.31	10.253	
11,305.0	8,982.9	11,295.8	8,973.2	23.2	25.5	88.84	-2,217.5	-381.2	485.0	437.6	47.37	10.240	
11,400.0	8,983.0	11,390.8	8,973.2	23.8	26.0	88.84	-2,312.5	-381.9	485.0	436.5	48.51	9.997	
11,495.0	8,983.0	11,485.8	8,973.3	24.3	26.5	88.84	-2,407.5	-382.7	485.0	435.3	49.68	9.763	
11,500.0	8,983.0	11,490.8	8,973.3	24.4	26.5	88.84	-2,412.5	-382.8	485.0	435.3	49.74	9.751	
11,590.0	8,983.1	11,580.8	8,973.4	24.9	27.0	88.84	-2,502.5	-383.5	485.0	434.2	50.86	9.536	
11,600.0	8,983.1	11,590.8	8,973.4	25.0	27.1	88.84	-2,512.5	-383.6	485.0	434.0	50.98	9.513	
11,685.0	8,983.1	11,675.8	8,973.4	25.5	27.5	88.84	-2,597.5	-384.3	485.0	433.0	52.05	9.318	
11,700.0	8,983.1	11,690.8	8,973.4	25.6	27.6	88.84	-2,612.5	-384.4	485.0	432.8	52.24	9.284	
11,780.0	8,983.1	11,770.8	8,973.5	26.1	28.1	88.84	-2,692.5	-385.1	485.0	431.8	53.26	9.107	
11,800.0	8,983.2	11,790.8	8,973.5	26.2	28.2	88.85	-2,712.5	-385.2	485.0	431.5	53.51	9.063	
11,875.0	8,983.2	11,865.8	8,973.5	26.7	28.6	88.85	-2,787.5	-385.9	485.0	430.5	54.48	8.903	
11,900.0	8,983.2	11,890.8	8,973.5	26.8	28.8	88.85	-2,812.5	-386.1	485.0	430.2	54.80	8.851	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Rule Assigned:								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
11,970.0	8,983.2	11,960.8	8,973.6	27.3	29.2	88.85	-2,882.5	-386.6	485.0	429.3	55.71	8.707	
12,000.0	8,983.2	11,990.8	8,973.6	27.5	29.4	88.85	-2,912.5	-386.9	485.0	428.9	56.10	8.646	
12,065.0	8,983.3	12,055.8	8,973.6	27.9	29.7	88.85	-2,977.5	-387.4	485.0	428.1	56.95	8.517	
12,100.0	8,983.3	12,090.8	8,973.7	28.1	30.0	88.85	-3,012.5	-387.7	485.0	427.6	57.40	8.449	
12,160.0	8,983.3	12,150.8	8,973.7	28.5	30.3	88.85	-3,072.5	-388.2	485.0	426.8	58.20	8.334	
12,200.0	8,983.3	12,190.8	8,973.7	28.8	30.6	88.85	-3,112.5	-388.5	485.0	426.3	58.72	8.259	
12,255.0	8,983.4	12,245.8	8,973.8	29.2	30.9	88.85	-3,167.5	-389.0	485.0	425.6	59.45	8.158	
12,300.0	8,983.4	12,290.8	8,973.8	29.5	31.2	88.85	-3,212.5	-389.4	485.0	425.0	60.05	8.076	
12,350.0	8,983.4	12,340.8	8,973.8	29.8	31.5	88.85	-3,262.5	-389.8	485.0	424.3	60.72	7.988	
12,400.0	8,983.4	12,390.8	8,973.8	30.1	31.8	88.85	-3,312.5	-390.2	485.0	423.6	61.39	7.900	
12,445.0	8,983.5	12,435.8	8,973.9	30.4	32.1	88.86	-3,357.5	-390.6	485.0	423.0	62.00	7.823	
12,500.0	8,983.5	12,490.8	8,973.9	30.8	32.4	88.86	-3,412.5	-391.0	485.0	422.3	62.74	7.731	
12,540.0	8,983.5	12,530.8	8,973.9	31.1	32.7	88.86	-3,452.5	-391.4	485.0	421.7	63.28	7.665	
12,600.0	8,983.5	12,590.8	8,974.0	31.5	33.1	88.86	-3,512.5	-391.9	485.0	420.9	64.09	7.567	
12,635.0	8,983.5	12,625.8	8,974.0	31.7	33.3	88.86	-3,547.5	-392.1	485.0	420.4	64.57	7.512	
12,700.0	8,983.6	12,690.8	8,974.0	32.2	33.7	88.86	-3,612.5	-392.7	485.0	419.6	65.45	7.410	
12,730.0	8,983.6	12,720.8	8,974.0	32.4	33.9	88.86	-3,642.5	-392.9	485.0	419.1	65.86	7.364	
12,800.0	8,983.6	12,790.8	8,974.1	32.9	34.4	88.86	-3,712.5	-393.5	485.0	418.2	66.82	7.258	
12,825.0	8,983.6	12,815.8	8,974.1	33.1	34.5	88.86	-3,737.5	-393.7	485.0	417.8	67.17	7.221	
12,900.0	8,983.7	12,890.8	8,974.1	33.6	35.0	88.86	-3,812.5	-394.3	485.0	416.8	68.20	7.112	
12,920.0	8,983.7	12,910.8	8,974.2	33.7	35.2	88.86	-3,832.5	-394.5	485.0	416.5	68.48	7.083	
13,000.0	8,983.7	12,990.8	8,974.2	34.3	35.7	88.86	-3,912.5	-395.2	485.0	415.4	69.58	6.970	
13,015.0	8,983.7	13,005.8	8,974.2	34.4	35.8	88.86	-3,927.5	-395.3	485.0	415.2	69.79	6.950	
13,100.0	8,983.8	13,090.8	8,974.3	35.0	36.4	88.87	-4,012.5	-396.0	485.0	414.0	70.97	6.834	
13,110.0	8,983.8	13,100.8	8,974.3	35.0	36.4	88.87	-4,022.5	-396.1	485.0	413.9	71.11	6.821	
13,200.0	8,983.8	13,190.8	8,974.3	35.7	37.0	88.87	-4,112.5	-396.8	485.0	412.6	72.37	6.702	
13,205.0	8,983.8	13,195.8	8,974.3	35.7	37.1	88.87	-4,117.5	-396.9	485.0	412.6	72.44	6.696	
13,300.0	8,983.9	13,290.8	8,974.4	36.4	37.7	88.87	-4,212.5	-397.6	485.0	411.2	73.76	6.575	
13,395.0	8,983.9	13,385.8	8,974.4	37.1	38.4	88.87	-4,307.4	-398.4	485.0	409.9	75.10	6.458	
13,400.0	8,983.9	13,390.8	8,974.4	37.1	38.4	88.87	-4,312.4	-398.5	485.0	409.8	75.17	6.452	
13,490.0	8,983.9	13,480.8	8,974.5	37.7	39.0	88.87	-4,402.4	-399.2	485.0	408.6	76.44	6.345	
13,500.0	8,983.9	13,490.8	8,974.5	37.8	39.1	88.87	-4,412.4	-399.3	485.0	408.4	76.58	6.334	
13,585.0	8,984.0	13,575.8	8,974.6	38.4	39.7	88.87	-4,497.4	-400.0	485.0	407.2	77.78	6.236	
13,600.0	8,984.0	13,590.8	8,974.6	38.5	39.8	88.87	-4,512.4	-400.1	485.0	407.0	77.99	6.219	
13,680.0	8,984.0	13,670.8	8,974.6	39.1	40.3	88.88	-4,592.4	-400.8	485.0	405.9	79.13	6.130	
13,700.0	8,984.0	13,690.8	8,974.6	39.2	40.4	88.88	-4,612.4	-400.9	485.0	405.6	79.41	6.108	
13,775.0	8,984.1	13,765.8	8,974.7	39.8	41.0	88.88	-4,687.4	-401.6	485.0	404.5	80.48	6.027	
13,800.0	8,984.1	13,790.8	8,974.7	40.0	41.1	88.88	-4,712.4	-401.8	485.0	404.2	80.83	6.000	
13,870.0	8,984.1	13,860.8	8,974.7	40.5	41.6	88.88	-4,782.4	-402.3	485.0	403.2	81.83	5.927	
13,900.0	8,984.1	13,890.8	8,974.7	40.7	41.8	88.88	-4,812.4	-402.6	485.0	402.8	82.26	5.896	
13,965.0	8,984.2	13,955.8	8,974.8	41.1	42.3	88.88	-4,877.4	-403.1	485.0	401.8	83.19	5.830	
14,000.0	8,984.2	13,990.8	8,974.8	41.4	42.5	88.88	-4,912.4	-403.4	485.0	401.3	83.69	5.796	
14,060.0	8,984.2	14,050.8	8,974.8	41.8	42.9	88.88	-4,972.4	-403.9	485.0	400.5	84.55	5.737	
14,100.0	8,984.2	14,090.8	8,974.9	42.1	43.2	88.88	-5,012.4	-404.2	485.0	399.9	85.12	5.698	
14,155.0	8,984.3	14,145.8	8,974.9	42.5	43.6	88.88	-5,067.4	-404.7	485.0	399.1	85.91	5.646	
14,200.0	8,984.3	14,190.8	8,974.9	42.8	43.9	88.88	-5,112.4	-405.1	485.0	398.5	86.56	5.603	
14,250.0	8,984.3	14,240.8	8,975.0	43.2	44.3	88.88	-5,162.4	-405.5	485.0	397.7	87.27	5.557	
14,300.0	8,984.3	14,290.8	8,975.0	43.6	44.6	88.88	-5,212.4	-405.9	485.0	397.0	87.99	5.512	
14,345.0	8,984.3	14,335.8	8,975.0	43.9	45.0	88.89	-5,257.4	-406.3	485.0	396.4	88.64	5.471	
14,400.0	8,984.4	14,390.8	8,975.0	44.3	45.3	88.89	-5,312.4	-406.7	485.0	395.6	89.44	5.423	
14,440.0	8,984.4	14,430.8	8,975.1	44.6	45.6	88.89	-5,352.4	-407.1	485.0	395.0	90.01	5.388	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
14,500.0	8,984.4	14,490.8	8,975.1	45.0	46.0	88.89	-5,412.4	-407.5	485.0	394.1	90.88	5.337	
14,535.0	8,984.4	14,525.8	8,975.1	45.3	46.3	88.89	-5,447.4	-407.8	485.0	393.6	91.39	5.307	
14,600.0	8,984.5	14,590.8	8,975.2	45.8	46.8	88.89	-5,512.4	-408.4	485.0	392.7	92.33	5.253	
14,630.0	8,984.5	14,620.8	8,975.2	46.0	47.0	88.89	-5,542.4	-408.6	485.0	392.2	92.76	5.228	
14,700.0	8,984.5	14,690.8	8,975.2	46.5	47.5	88.89	-5,612.4	-409.2	485.0	391.2	93.78	5.172	
14,725.0	8,984.5	14,715.8	8,975.2	46.7	47.7	88.89	-5,637.4	-409.4	485.0	390.9	94.14	5.152	
14,800.0	8,984.6	14,790.8	8,975.3	47.2	48.2	88.89	-5,712.4	-410.0	485.0	389.8	95.23	5.093	
14,820.0	8,984.6	14,810.8	8,975.3	47.4	48.3	88.89	-5,732.4	-410.2	485.0	389.5	95.52	5.077	
14,900.0	8,984.6	14,890.8	8,975.3	47.9	48.9	88.89	-5,812.4	-410.9	485.0	388.3	96.69	5.016	
14,915.0	8,984.6	14,905.8	8,975.4	48.1	49.0	88.89	-5,827.4	-411.0	485.0	388.1	96.90	5.005	
15,000.0	8,984.6	14,990.8	8,975.4	48.7	49.6	88.90	-5,912.4	-411.7	485.0	386.9	98.14	4.942	
15,010.0	8,984.7	15,000.8	8,975.4	48.8	49.7	88.90	-5,922.4	-411.8	485.0	386.7	98.29	4.935	
15,100.0	8,984.7	15,090.8	8,975.5	49.4	50.3	88.90	-6,012.4	-412.5	485.0	385.4	99.60	4.869	
15,105.0	8,984.7	15,095.8	8,975.5	49.5	50.4	88.90	-6,017.4	-412.5	485.0	385.3	99.67	4.866	
15,200.0	8,984.7	15,190.8	8,975.5	50.2	51.1	88.90	-6,112.4	-413.3	485.0	383.9	101.06	4.799	
15,295.0	8,984.8	15,285.8	8,975.6	50.9	51.7	88.90	-6,207.4	-414.1	485.0	382.6	102.45	4.734	
15,300.0	8,984.8	15,290.8	8,975.6	50.9	51.8	88.90	-6,212.4	-414.2	485.0	382.5	102.53	4.731	
15,390.0	8,984.8	15,380.8	8,975.6	51.6	52.4	88.90	-6,302.4	-414.9	485.0	381.2	103.84	4.671	
15,400.0	8,984.8	15,390.8	8,975.6	51.6	52.5	88.90	-6,312.4	-415.0	485.0	381.0	103.99	4.664	
15,485.0	8,984.9	15,475.8	8,975.7	52.3	53.1	88.90	-6,397.4	-415.7	485.0	379.8	105.24	4.609	
15,500.0	8,984.9	15,490.8	8,975.7	52.4	53.2	88.90	-6,412.4	-415.8	485.0	379.5	105.46	4.599	
15,580.0	8,984.9	15,570.8	8,975.8	53.0	53.8	88.91	-6,492.4	-416.5	485.0	378.4	106.63	4.548	
15,600.0	8,984.9	15,590.8	8,975.8	53.1	54.0	88.91	-6,512.4	-416.6	485.0	378.1	106.93	4.536	
15,675.0	8,985.0	15,665.8	8,975.8	53.7	54.5	88.91	-6,587.4	-417.3	485.0	377.0	108.03	4.490	
15,700.0	8,985.0	15,690.8	8,975.8	53.8	54.7	88.91	-6,612.4	-417.5	485.0	376.6	108.40	4.474	
15,770.0	8,985.0	15,760.8	8,975.9	54.4	55.2	88.91	-6,682.4	-418.0	485.0	375.6	109.43	4.432	
15,800.0	8,985.0	15,790.8	8,975.9	54.6	55.4	88.91	-6,712.4	-418.3	485.0	375.1	109.87	4.414	
15,865.0	8,985.1	15,855.8	8,975.9	55.1	55.9	88.91	-6,777.4	-418.8	485.0	374.2	110.83	4.376	
15,900.0	8,985.1	15,890.8	8,975.9	55.3	56.1	88.91	-6,812.4	-419.1	485.0	373.7	111.34	4.356	
15,960.0	8,985.1	15,950.8	8,976.0	55.8	56.6	88.91	-6,872.4	-419.6	485.0	372.8	112.23	4.322	
16,000.0	8,985.1	15,990.8	8,976.0	56.1	56.9	88.91	-6,912.4	-419.9	485.0	372.2	112.82	4.299	
16,055.0	8,985.1	16,045.8	8,976.0	56.5	57.3	88.91	-6,967.4	-420.4	485.0	371.4	113.63	4.268	
16,100.0	8,985.2	16,090.8	8,976.1	56.8	57.6	88.91	-7,012.4	-420.8	485.0	370.7	114.29	4.244	
16,150.0	8,985.2	16,140.8	8,976.1	57.2	58.0	88.91	-7,062.4	-421.2	485.0	370.0	115.03	4.216	
16,200.0	8,985.2	16,190.8	8,976.1	57.6	58.3	88.92	-7,112.4	-421.6	485.0	369.2	115.77	4.189	
16,245.0	8,985.2	16,235.8	8,976.2	57.9	58.7	88.92	-7,157.3	-422.0	485.0	368.6	116.44	4.165	
16,300.0	8,985.3	16,290.8	8,976.2	58.3	59.1	88.92	-7,212.3	-422.4	485.0	367.8	117.25	4.137	
16,340.0	8,985.3	16,330.8	8,976.2	58.6	59.4	88.92	-7,252.3	-422.7	485.0	367.2	117.84	4.116	
16,400.0	8,985.3	16,390.8	8,976.2	59.0	59.8	88.92	-7,312.3	-423.2	485.0	366.3	118.73	4.085	
16,435.0	8,985.3	16,425.8	8,976.3	59.3	60.0	88.92	-7,347.3	-423.5	485.0	365.8	119.25	4.067	
16,500.0	8,985.3	16,490.8	8,976.3	59.8	60.5	88.92	-7,412.3	-424.1	485.0	364.8	120.21	4.035	
16,530.0	8,985.4	16,520.8	8,976.3	60.0	60.7	88.92	-7,442.3	-424.3	485.0	364.4	120.65	4.020	
16,600.0	8,985.4	16,590.8	8,976.4	60.5	61.3	88.92	-7,512.3	-424.9	485.0	363.3	121.69	3.986	
16,625.0	8,985.4	16,615.8	8,976.4	60.7	61.4	88.92	-7,537.3	-425.1	485.0	362.9	122.06	3.973	
16,700.0	8,985.4	16,690.8	8,976.4	61.3	62.0	88.92	-7,612.3	-425.7	485.0	361.8	123.18	3.938	
16,720.0	8,985.5	16,710.8	8,976.4	61.4	62.1	88.92	-7,632.3	-425.9	485.0	361.5	123.47	3.928	
16,800.0	8,985.5	16,790.8	8,976.5	62.0	62.7	88.92	-7,712.3	-426.5	485.0	360.3	124.66	3.891	
16,815.0	8,985.5	16,805.8	8,976.5	62.1	62.8	88.92	-7,727.3	-426.7	485.0	360.1	124.88	3.884	
16,900.0	8,985.5	16,890.8	8,976.5	62.8	63.5	88.93	-7,812.3	-427.4	485.0	358.9	126.15	3.845	
16,910.0	8,985.5	16,900.8	8,976.6	62.8	63.5	88.93	-7,822.3	-427.5	485.0	358.7	126.29	3.840	
17,000.0	8,985.6	16,990.8	8,976.6	63.5	64.2	88.93	-7,912.3	-428.2	485.0	357.4	127.63	3.800	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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			
17,005.0	8,985.6	16,995.8	8,976.6	63.6	64.2	88.93	-7,917.3	-428.2	485.0	357.3	127.71	3.798			
17,100.0	8,985.6	17,090.8	8,976.7	64.3	64.9	88.93	-8,012.3	-429.0	485.0	355.9	129.12	3.756			
17,195.0	8,985.7	17,185.8	8,976.7	65.0	65.6	88.93	-8,107.3	-429.8	485.0	354.5	130.53	3.716			
17,200.0	8,985.7	17,190.8	8,976.7	65.0	65.7	88.93	-8,112.3	-429.9	485.0	354.4	130.61	3.713			
17,290.0	8,985.7	17,280.8	8,976.8	65.7	66.3	88.93	-8,202.3	-430.6	485.0	353.1	131.95	3.676			
17,300.0	8,985.7	17,290.8	8,976.8	65.8	66.4	88.93	-8,212.3	-430.7	485.0	352.9	132.10	3.672			
17,385.0	8,985.8	17,375.8	8,976.8	66.4	67.0	88.93	-8,297.3	-431.4	485.0	351.6	133.36	3.637			
17,400.0	8,985.8	17,390.8	8,976.8	66.5	67.2	88.93	-8,312.3	-431.5	485.0	351.4	133.59	3.631			
17,480.0	8,985.8	17,470.8	8,976.9	67.1	67.8	88.94	-8,392.3	-432.2	485.0	350.2	134.78	3.598			
17,500.0	8,985.8	17,490.8	8,976.9	67.3	67.9	88.94	-8,412.3	-432.3	485.0	349.9	135.08	3.591			
17,575.0	8,985.8	17,565.8	8,977.0	67.8	68.5	88.94	-8,487.3	-433.0	485.0	348.8	136.20	3.561			
17,600.0	8,985.9	17,590.8	8,977.0	68.0	68.6	88.94	-8,512.3	-433.2	485.0	348.4	136.57	3.551			
17,670.0	8,985.9	17,660.8	8,977.0	68.5	69.2	88.94	-8,582.3	-433.7	485.0	347.4	137.62	3.524			
17,700.0	8,985.9	17,690.8	8,977.0	68.8	69.4	88.94	-8,612.3	-434.0	485.0	346.9	138.06	3.513			
17,765.0	8,985.9	17,755.8	8,977.1	69.2	69.9	88.94	-8,677.3	-434.5	485.0	346.0	139.03	3.488			
17,800.0	8,986.0	17,790.8	8,977.1	69.5	70.1	88.94	-8,712.3	-434.8	485.0	345.4	139.56	3.475			
17,860.0	8,986.0	17,850.8	8,977.1	70.0	70.6	88.94	-8,772.3	-435.3	485.0	344.5	140.45	3.453			
17,900.0	8,986.0	17,890.8	8,977.1	70.3	70.9	88.94	-8,812.3	-435.6	485.0	344.0	141.05	3.438			
17,955.0	8,986.0	17,945.8	8,977.2	70.7	71.3	88.94	-8,867.3	-436.1	485.0	343.1	141.87	3.419			
18,000.0	8,986.0	17,990.8	8,977.2	71.0	71.6	88.94	-8,912.3	-436.5	485.0	342.5	142.55	3.402			
18,050.0	8,986.1	18,040.8	8,977.2	71.4	72.0	88.94	-8,962.3	-436.9	485.0	341.7	143.29	3.385			
18,100.0	8,986.1	18,090.8	8,977.3	71.8	72.4	88.95	-9,012.3	-437.3	485.0	341.0	144.04	3.367			
18,145.0	8,986.1	18,135.8	8,977.3	72.1	72.7	88.95	-9,057.3	-437.7	485.0	340.3	144.72	3.351			
18,200.0	8,986.1	18,190.8	8,977.3	72.5	73.1	88.95	-9,112.3	-438.1	485.0	339.5	145.54	3.332			
18,240.0	8,986.2	18,230.8	8,977.4	72.8	73.4	88.95	-9,152.3	-438.4	485.0	338.9	146.14	3.319			
18,300.0	8,986.2	18,290.8	8,977.4	73.3	73.8	88.95	-9,212.3	-438.9	485.0	338.0	147.04	3.299			
18,335.0	8,986.2	18,325.8	8,977.4	73.5	74.1	88.95	-9,247.3	-439.2	485.0	337.4	147.56	3.287			
18,400.0	8,986.2	18,390.8	8,977.4	74.0	74.6	88.95	-9,312.3	-439.8	485.0	336.5	148.53	3.265			
18,430.0	8,986.2	18,420.8	8,977.5	74.2	74.8	88.95	-9,342.3	-440.0	485.0	336.0	148.98	3.255			
18,500.0	8,986.3	18,490.8	8,977.5	74.8	75.3	88.95	-9,412.3	-440.6	485.0	335.0	150.03	3.233			
18,525.0	8,986.3	18,515.8	8,977.5	74.9	75.5	88.95	-9,437.3	-440.8	485.0	334.6	150.41	3.225			
18,600.0	8,986.3	18,590.8	8,977.6	75.5	76.1	88.95	-9,512.3	-441.4	485.0	333.5	151.53	3.201			
18,620.0	8,986.3	18,610.8	8,977.6	75.7	76.2	88.95	-9,532.3	-441.6	485.0	333.2	151.83	3.194			
18,700.0	8,986.4	18,690.8	8,977.6	76.3	76.8	88.95	-9,612.3	-442.2	485.0	332.0	153.03	3.169			
18,715.0	8,986.4	18,705.8	8,977.6	76.4	76.9	88.95	-9,627.3	-442.4	485.0	331.7	153.25	3.165			
18,800.0	8,986.4	18,790.8	8,977.7	77.0	77.6	88.96	-9,712.3	-443.1	485.0	330.5	154.53	3.139			
18,810.0	8,986.4	18,800.8	8,977.7	77.1	77.6	88.96	-9,722.3	-443.2	485.0	330.3	154.68	3.136			
18,900.0	8,986.5	18,890.8	8,977.7	77.8	78.3	88.96	-9,812.3	-443.9	485.0	329.0	156.03	3.108			
18,905.0	8,986.5	18,895.8	8,977.8	77.8	78.4	88.96	-9,817.3	-443.9	485.0	328.9	156.11	3.107			
19,000.0	8,986.5	18,990.8	8,977.8	78.5	79.1	88.96	-9,912.3	-444.7	485.0	327.5	157.53	3.079			
19,095.0	8,986.6	19,085.8	8,977.9	79.2	79.8	88.96	-10,007.3	-445.5	485.0	326.0	158.96	3.051			
19,100.0	8,986.6	19,090.8	8,977.9	79.3	79.8	88.96	-10,012.3	-445.6	485.0	326.0	159.03	3.050			
19,190.0	8,986.6	19,180.8	8,977.9	80.0	80.5	88.96	-10,102.2	-446.3	485.0	324.6	160.39	3.024			
19,200.0	8,986.6	19,190.8	8,977.9	80.0	80.6	88.96	-10,112.2	-446.4	485.0	324.5	160.54	3.021			
19,285.0	8,986.6	19,275.8	8,978.0	80.7	81.2	88.96	-10,197.2	-447.1	485.0	323.2	161.81	2.997			
19,300.0	8,986.7	19,290.8	8,978.0	80.8	81.3	88.96	-10,212.2	-447.2	485.0	323.0	162.04	2.993			
19,380.0	8,986.7	19,370.8	8,978.0	81.4	81.9	88.97	-10,292.2	-447.9	485.0	321.8	163.24	2.971			
19,400.0	8,986.7	19,390.8	8,978.0	81.5	82.1	88.97	-10,312.2	-448.0	485.0	321.5	163.54	2.966			
19,475.0	8,986.7	19,465.8	8,978.1	82.1	82.6	88.97	-10,387.2	-448.6	485.0	320.3	164.67	2.945			
19,500.0	8,986.7	19,490.8	8,978.1	82.3	82.8	88.97	-10,412.2	-448.9	485.0	320.0	165.04	2.939			
19,570.0	8,986.8	19,560.8	8,978.2	82.8	83.3	88.97	-10,482.2	-449.4	485.0	318.9	166.10	2.920			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
19,600.0	8,986.8	19,590.8	8,978.2	83.0	83.6	88.97	88.97	-10,512.2	-449.7	485.0	318.5	166.55	2.912
19,665.0	8,986.8	19,655.8	8,978.2	83.5	84.0	88.97	88.97	-10,577.2	-450.2	485.0	317.5	167.53	2.895
19,700.0	8,986.8	19,690.8	8,978.2	83.8	84.3	88.97	88.97	-10,612.2	-450.5	485.0	316.9	168.05	2.886
19,760.0	8,986.9	19,750.8	8,978.3	84.3	84.8	88.97	88.97	-10,672.2	-451.0	485.0	316.0	168.96	2.871
19,800.0	8,986.9	19,790.8	8,978.3	84.6	85.1	88.97	88.97	-10,712.2	-451.3	485.0	315.4	169.56	2.860
19,855.0	8,986.9	19,845.8	8,978.3	85.0	85.5	88.97	88.97	-10,767.2	-451.8	485.0	314.6	170.39	2.846
19,900.0	8,986.9	19,890.8	8,978.3	85.3	85.8	88.97	88.97	-10,812.2	-452.2	485.0	313.9	171.06	2.835
19,950.0	8,987.0	19,940.8	8,978.4	85.7	86.2	88.97	88.97	-10,862.2	-452.6	485.0	313.2	171.82	2.823
20,000.0	8,987.0	19,990.8	8,978.4	86.1	86.6	88.98	88.98	-10,912.2	-453.0	485.0	312.4	172.57	2.810
20,045.0	8,987.0	20,035.8	8,978.4	86.4	86.9	88.98	88.98	-10,957.2	-453.4	485.0	311.8	173.25	2.799
20,100.0	8,987.0	20,090.8	8,978.5	86.8	87.3	88.98	88.98	-11,012.2	-453.8	485.0	310.9	174.07	2.786
20,140.0	8,987.0	20,130.8	8,978.5	87.1	87.6	88.98	88.98	-11,052.2	-454.1	485.0	310.3	174.68	2.777
20,200.0	8,987.1	20,190.8	8,978.5	87.6	88.1	88.98	88.98	-11,112.2	-454.6	485.0	309.4	175.58	2.762
20,235.0	8,987.1	20,225.8	8,978.6	87.8	88.3	88.98	88.98	-11,147.2	-454.9	485.0	308.9	176.11	2.754
20,300.0	8,987.1	20,290.8	8,978.6	88.3	88.8	88.98	88.98	-11,212.2	-455.5	485.0	307.9	177.09	2.739
20,330.0	8,987.1	20,320.8	8,978.6	88.6	89.0	88.98	88.98	-11,242.2	-455.7	485.0	307.5	177.54	2.732
20,400.0	8,987.2	20,390.8	8,978.7	89.1	89.6	88.98	88.98	-11,312.2	-456.3	485.0	306.4	178.59	2.716
20,425.0	8,987.2	20,415.8	8,978.7	89.3	89.7	88.98	88.98	-11,337.2	-456.5	485.0	306.0	178.97	2.710
20,500.0	8,987.2	20,490.8	8,978.7	89.8	90.3	88.98	88.98	-11,412.2	-457.1	485.0	304.9	180.10	2.693
20,520.0	8,987.2	20,510.8	8,978.7	90.0	90.5	88.98	88.98	-11,432.2	-457.3	485.0	304.6	180.40	2.688
20,600.0	8,987.3	20,590.8	8,978.8	90.6	91.1	88.98	88.98	-11,512.2	-457.9	485.0	303.4	181.61	2.671
20,615.0	8,987.3	20,605.8	8,978.8	90.7	91.2	88.99	88.99	-11,527.2	-458.1	485.0	303.2	181.84	2.667
20,700.0	8,987.3	20,690.8	8,978.8	91.4	91.8	88.99	88.99	-11,612.2	-458.8	485.0	301.9	183.12	2.649
20,710.0	8,987.3	20,700.8	8,978.8	91.4	91.9	88.99	88.99	-11,622.2	-458.9	485.0	301.7	183.27	2.646
20,800.0	8,987.4	20,790.8	8,978.9	92.1	92.6	88.99	88.99	-11,712.2	-459.6	485.0	300.4	184.63	2.627
20,805.0	8,987.4	20,795.8	8,978.9	92.1	92.6	88.99	88.99	-11,717.2	-459.6	485.0	300.3	184.70	2.626
20,900.0	8,987.4	20,890.8	8,979.0	92.9	93.3	88.99	88.99	-11,812.2	-460.4	485.0	298.9	186.14	2.606
20,995.0	8,987.4	20,985.8	8,979.0	93.6	94.0	88.99	88.99	-11,907.2	-461.2	485.0	297.4	187.57	2.586
21,000.0	8,987.4	20,990.8	8,979.0	93.6	94.1	88.99	88.99	-11,912.2	-461.2	485.0	297.4	187.64	2.585
21,090.0	8,987.5	21,080.8	8,979.1	94.3	94.7	88.99	88.99	-12,002.2	-462.0	485.0	296.0	189.00	2.566
21,100.0	8,987.5	21,090.8	8,979.1	94.4	94.8	88.99	88.99	-12,012.2	-462.1	485.0	295.8	189.15	2.564
21,185.0	8,987.5	21,175.8	8,979.1	95.0	95.5	88.99	88.99	-12,097.2	-462.8	485.0	294.6	190.44	2.547
21,200.0	8,987.5	21,190.8	8,979.1	95.1	95.6	88.99	88.99	-12,112.2	-462.9	485.0	294.3	190.66	2.544
21,280.0	8,987.6	21,270.8	8,979.2	95.7	96.2	89.00	89.00	-12,192.2	-463.6	485.0	293.1	191.87	2.528
21,300.0	8,987.6	21,290.8	8,979.2	95.9	96.3	89.00	89.00	-12,212.2	-463.7	485.0	292.8	192.17	2.524
21,375.0	8,987.6	21,365.8	8,979.2	96.5	96.9	89.00	89.00	-12,287.2	-464.3	485.0	291.7	193.31	2.509
21,400.0	8,987.6	21,390.8	8,979.3	96.6	97.1	89.00	89.00	-12,312.2	-464.6	485.0	291.3	193.68	2.504
21,470.0	8,987.7	21,460.8	8,979.3	97.2	97.6	89.00	89.00	-12,382.2	-465.1	485.0	290.3	194.74	2.490
21,500.0	8,987.7	21,490.8	8,979.3	97.4	97.8	89.00	89.00	-12,412.2	-465.4	485.0	289.8	195.20	2.485
21,565.0	8,987.7	21,555.8	8,979.4	97.9	98.3	89.00	89.00	-12,477.2	-465.9	485.0	288.8	196.18	2.472
21,600.0	8,987.7	21,590.8	8,979.4	98.2	98.6	89.00	89.00	-12,512.2	-466.2	485.0	288.3	196.71	2.466
21,660.0	8,987.8	21,650.8	8,979.4	98.6	99.0	89.00	89.00	-12,572.2	-466.7	485.0	287.4	197.61	2.454
21,700.0	8,987.8	21,690.8	8,979.4	98.9	99.3	89.00	89.00	-12,612.2	-467.0	485.0	286.8	198.22	2.447
21,755.0	8,987.8	21,745.8	8,979.5	99.3	99.7	89.00	89.00	-12,667.2	-467.5	485.0	285.9	199.05	2.437
21,800.0	8,987.8	21,790.8	8,979.5	99.7	100.1	89.00	89.00	-12,712.2	-467.9	485.0	285.3	199.73	2.428
21,850.0	8,987.8	21,840.8	8,979.5	100.1	100.5	89.00	89.00	-12,762.2	-468.3	485.0	284.5	200.48	2.419
21,900.0	8,987.9	21,890.8	8,979.6	100.4	100.8	89.01	89.01	-12,812.2	-468.7	485.0	283.8	201.24	2.410
21,945.0	8,987.9	21,935.8	8,979.6	100.8	101.2	89.01	89.01	-12,857.2	-469.1	485.0	283.1	201.92	2.402
22,000.0	8,987.9	21,990.8	8,979.6	101.2	101.6	89.01	89.01	-12,912.2	-469.5	485.0	282.2	202.75	2.392
22,040.0	8,987.9	22,030.8	8,979.6	101.5	101.9	89.01	89.01	-12,952.2	-469.8	485.0	281.6	203.36	2.385
22,100.0	8,988.0	22,090.8	8,979.7	102.0	102.3	89.01	89.01	-13,012.1	-470.3	485.0	280.7	204.26	2.374

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
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	
22,135.0	8,988.0	22,125.8	8,979.7	102.2	102.6	89.01	-13,047.1	-470.6	485.0	280.2	204.79	2.368		
22,200.0	8,988.0	22,190.8	8,979.7	102.7	103.1	89.01	-13,112.1	-471.2	485.0	279.2	205.78	2.357		
22,230.0	8,988.0	22,220.8	8,979.8	102.9	103.3	89.01	-13,142.1	-471.4	485.0	278.8	206.23	2.352		
22,300.0	8,988.1	22,290.8	8,979.8	103.5	103.9	89.01	-13,212.1	-472.0	485.0	277.7	207.29	2.340		
22,325.0	8,988.1	22,315.8	8,979.8	103.7	104.0	89.01	-13,237.1	-472.2	485.0	277.3	207.67	2.335		
22,400.0	8,988.1	22,390.8	8,979.9	104.2	104.6	89.01	-13,312.1	-472.8	485.0	276.2	208.80	2.323		
22,420.0	8,988.1	22,410.8	8,979.9	104.4	104.8	89.01	-13,332.1	-473.0	485.0	275.9	209.10	2.319		
22,500.0	8,988.1	22,490.8	8,979.9	105.0	105.4	89.02	-13,412.1	-473.6	485.0	274.7	210.32	2.306		
22,515.0	8,988.2	22,505.8	8,979.9	105.1	105.5	89.02	-13,427.1	-473.8	485.0	274.5	210.54	2.304		
22,600.0	8,988.2	22,590.8	8,980.0	105.7	106.1	89.02	-13,512.1	-474.5	485.0	273.2	211.83	2.290		
22,610.0	8,988.2	22,600.8	8,980.0	105.8	106.2	89.02	-13,522.1	-474.5	485.0	273.0	211.98	2.288		
22,700.0	8,988.2	22,690.8	8,980.0	106.5	106.9	89.02	-13,612.1	-475.3	485.0	271.7	213.34	2.273		
22,705.0	8,988.2	22,695.8	8,980.0	106.5	106.9	89.02	-13,617.1	-475.3	485.0	271.6	213.42	2.273		
22,800.0	8,988.3	22,790.8	8,980.1	107.3	107.6	89.02	-13,712.1	-476.1	485.0	270.1	214.86	2.257		
22,895.0	8,988.3	22,885.8	8,980.2	108.0	108.4	89.02	-13,807.1	-476.9	485.0	268.7	216.29	2.242		
22,900.0	8,988.3	22,890.8	8,980.2	108.0	108.4	89.02	-13,812.1	-476.9	485.0	268.6	216.37	2.242		
22,990.0	8,988.4	22,980.8	8,980.2	108.7	109.1	89.02	-13,902.1	-477.7	485.0	267.3	217.73	2.227		
23,000.0	8,988.4	22,990.8	8,980.2	108.8	109.1	89.02	-13,912.1	-477.8	485.0	267.1	217.88	2.226		
23,085.0	8,988.4	23,075.8	8,980.3	109.4	109.8	89.02	-13,997.1	-478.5	485.0	265.8	219.17	2.213		
23,100.0	8,988.4	23,090.8	8,980.3	109.5	109.9	89.02	-14,012.1	-478.6	485.0	265.6	219.40	2.211		
23,180.0	8,988.5	23,170.8	8,980.3	110.1	110.5	89.03	-14,092.1	-479.3	485.0	264.4	220.61	2.198		
23,200.0	8,988.5	23,190.8	8,980.3	110.3	110.7	89.03	-14,112.1	-479.4	485.0	264.1	220.91	2.195		
23,275.0	8,988.5	23,265.8	8,980.4	110.9	111.2	89.03	-14,187.1	-480.0	485.0	262.9	222.05	2.184		
23,300.0	8,988.5	23,290.8	8,980.4	111.0	111.4	89.03	-14,212.1	-480.2	485.0	262.6	222.43	2.180		
23,370.0	8,988.6	23,360.8	8,980.4	111.6	111.9	89.03	-14,282.1	-480.8	485.0	261.5	223.49	2.170		
23,400.0	8,988.6	23,390.8	8,980.5	111.8	112.2	89.03	-14,312.1	-481.1	485.0	261.1	223.94	2.166		
23,465.0	8,988.6	23,455.8	8,980.5	112.3	112.7	89.03	-14,377.1	-481.6	485.0	260.1	224.93	2.156		
23,500.0	8,988.6	23,490.8	8,980.5	112.6	112.9	89.03	-14,412.1	-481.9	485.0	259.5	225.46	2.151		
23,560.0	8,988.6	23,550.8	8,980.6	113.0	113.4	89.03	-14,472.1	-482.4	485.0	258.6	226.37	2.143		
23,600.0	8,988.7	23,590.8	8,980.6	113.3	113.7	89.03	-14,512.1	-482.7	485.0	258.0	226.97	2.137		
23,655.0	8,988.7	23,645.8	8,980.6	113.7	114.1	89.03	-14,567.1	-483.2	485.0	257.2	227.81	2.129		
23,700.0	8,988.7	23,690.8	8,980.6	114.1	114.4	89.03	-14,612.1	-483.6	485.0	256.5	228.49	2.123		
23,750.0	8,988.7	23,740.8	8,980.7	114.5	114.8	89.03	-14,662.1	-484.0	485.0	255.7	229.25	2.116		
23,800.0	8,988.8	23,790.8	8,980.7	114.8	115.2	89.04	-14,712.1	-484.4	485.0	255.0	230.00	2.109		
23,845.0	8,988.8	23,835.8	8,980.7	115.2	115.5	89.04	-14,757.1	-484.8	485.0	254.3	230.69	2.102		
23,900.0	8,988.8	23,890.8	8,980.8	115.6	115.9	89.04	-14,812.1	-485.2	485.0	253.5	231.52	2.095		
23,940.0	8,988.8	23,930.8	8,980.8	115.9	116.2	89.04	-14,852.1	-485.5	485.0	252.9	232.13	2.089		
24,000.0	8,988.8	23,990.8	8,980.8	116.4	116.7	89.04	-14,912.1	-486.0	485.0	252.0	233.03	2.081		
24,035.0	8,988.9	24,025.8	8,980.8	116.6	117.0	89.04	-14,947.1	-486.3	485.0	251.4	233.57	2.076		
24,100.0	8,988.9	24,090.8	8,980.9	117.1	117.5	89.04	-15,012.1	-486.9	485.0	250.4	234.55	2.068		
24,130.0	8,988.9	24,120.8	8,980.9	117.3	117.7	89.04	-15,042.1	-487.1	485.0	250.0	235.01	2.064		
24,190.8	8,988.9	24,181.6	8,980.9	117.8	118.1	89.04	-15,102.9	-487.6	485.0	249.1	235.93	2.056		
24,200.0	8,988.9	24,190.8	8,980.9	117.9	118.2	89.04	-15,112.1	-487.7	485.0	248.9	236.06	2.054		
24,225.0	8,989.0	24,215.8	8,981.0	118.1	118.4	89.04	-15,137.1	-487.9	485.0	248.5	236.44	2.051		
24,300.0	8,989.0	24,290.8	8,981.0	118.6	119.0	89.04	-15,212.1	-488.5	485.0	247.4	237.58	2.041		
24,307.6	8,989.0	24,298.3	8,981.0	118.7	119.0	89.04	-15,219.6	-488.6	485.0	247.3	237.70	2.040 SF		
24,320.0	8,989.0	24,298.5	8,981.0	118.8	119.0	89.04	-15,219.8	-488.6	485.1	247.4	237.75	2.041		
24,320.8	8,989.0	24,298.5	8,981.0	118.8	119.0	89.04	-15,219.8	-488.6	485.2	247.4	237.75	2.041		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.1	0.1	3.0	3.0	-91.05	-1.1	-60.0	60.0				
95.0	95.0	95.1	95.1	3.0	3.0	-91.05	-1.1	-60.0	60.0	54.0	6.04	9.942	
100.0	100.0	100.1	100.1	3.0	3.0	-91.05	-1.1	-60.0	60.0	54.0	6.04	9.934	
190.0	190.0	190.1	190.1	3.1	3.1	-91.05	-1.1	-60.0	60.0	53.8	6.25	9.598	
200.0	200.0	200.1	200.1	3.1	3.1	-91.05	-1.1	-60.0	60.0	53.7	6.29	9.546	
285.0	285.0	285.1	285.1	3.3	3.3	-91.05	-1.1	-60.0	60.0	53.5	6.48	9.256	
300.0	300.0	300.1	300.1	3.3	3.3	-91.05	-1.1	-60.0	60.0	53.5	6.52	9.200	
380.0	380.0	380.1	380.1	3.4	3.4	-91.05	-1.1	-60.0	60.0	53.3	6.70	8.954	
400.0	400.0	400.1	400.1	3.4	3.4	-91.05	-1.1	-60.0	60.0	53.3	6.75	8.890	
475.0	475.0	475.1	475.1	3.5	3.5	-91.05	-1.1	-60.0	60.0	53.1	6.91	8.680	
500.0	500.0	500.1	500.1	3.5	3.5	-91.05	-1.1	-60.0	60.0	53.0	6.97	8.609	
570.0	570.0	570.1	570.1	3.6	3.6	-91.05	-1.1	-60.0	60.0	52.9	7.12	8.430	
600.0	600.0	600.1	600.1	3.6	3.6	-91.05	-1.1	-60.0	60.0	52.8	7.18	8.353	
665.0	665.0	665.1	665.1	3.7	3.7	-91.05	-1.1	-60.0	60.0	52.7	7.32	8.200	
700.0	700.0	700.1	700.1	3.8	3.8	-91.05	-1.1	-60.0	60.0	52.6	7.39	8.118	
760.0	760.0	760.1	760.1	3.8	3.8	-91.05	-1.1	-60.0	60.0	52.5	7.51	7.988	
800.0	800.0	800.1	800.1	3.9	3.9	-91.05	-1.1	-60.0	60.0	52.4	7.59	7.902	
855.0	855.0	855.1	855.1	4.0	4.0	-91.05	-1.1	-60.0	60.0	52.3	7.70	7.792	
900.0	900.0	900.1	900.1	4.0	4.0	-91.05	-1.1	-60.0	60.0	52.2	7.79	7.703	
950.0	950.0	950.1	950.1	4.1	4.1	-91.05	-1.1	-60.0	60.0	52.1	7.89	7.610	
1,000.0	1,000.0	1,000.1	1,000.1	4.1	4.1	-91.05	-1.1	-60.0	60.0	52.0	7.98	7.518	
1,045.0	1,045.0	1,045.1	1,045.1	4.2	4.2	-91.05	-1.1	-60.0	60.0	51.9	8.07	7.440	
1,100.0	1,100.0	1,100.1	1,100.1	4.2	4.2	-91.05	-1.1	-60.0	60.0	51.8	8.17	7.345	
1,140.0	1,140.0	1,140.1	1,140.1	4.3	4.3	-91.05	-1.1	-60.0	60.0	51.8	8.24	7.281	
1,200.0	1,200.0	1,200.1	1,200.1	4.4	4.4	-91.05	-1.1	-60.0	60.0	51.7	8.35	7.184	
1,235.0	1,235.0	1,235.1	1,235.1	4.4	4.4	-91.05	-1.1	-60.0	60.0	51.6	8.42	7.131	
1,300.0	1,300.0	1,300.1	1,300.1	4.5	4.5	-91.05	-1.1	-60.0	60.0	51.5	8.53	7.034	
1,330.0	1,330.0	1,330.1	1,330.1	4.5	4.5	-91.05	-1.1	-60.0	60.0	51.4	8.58	6.991	
1,400.0	1,400.0	1,400.1	1,400.1	4.6	4.6	-91.05	-1.1	-60.0	60.0	51.3	8.71	6.892	
1,425.0	1,425.0	1,425.1	1,425.1	4.6	4.6	-91.05	-1.1	-60.0	60.0	51.3	8.75	6.858	
1,437.5	1,437.5	1,437.6	1,437.6	4.6	4.6	-91.05	-1.1	-60.0	60.0	51.2	8.77	6.841 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-91.05	-1.1	-60.0	60.0	51.1	8.88	6.758 ES	
1,520.0	1,520.0	1,519.7	1,519.7	4.8	4.7	-111.96	-1.1	-60.1	60.1	51.2	8.93	6.728	
1,600.0	1,600.0	1,598.1	1,598.1	4.9	4.8	-112.75	-0.5	-61.6	62.3	53.1	9.15	6.804	
1,615.0	1,615.0	1,612.8	1,612.8	5.0	4.9	-113.00	-0.3	-62.1	63.0	53.8	9.21	6.837	
1,700.0	1,699.8	1,695.8	1,695.7	5.2	5.0	-114.89	1.4	-66.2	69.0	59.5	9.58	7.209	
1,710.0	1,709.8	1,705.6	1,705.4	5.2	5.0	-115.15	1.6	-66.9	70.0	60.3	9.62	7.273	
1,800.0	1,799.5	1,792.9	1,792.4	5.4	5.3	-117.62	4.4	-73.9	80.5	70.5	10.01	8.037	
1,805.0	1,804.4	1,797.7	1,797.2	5.5	5.3	-117.76	4.6	-74.4	81.2	71.1	10.03	8.093	
1,850.0	1,849.1	1,841.0	1,840.2	5.5	5.4	-118.99	6.4	-78.8	88.0	77.8	10.19	8.638	
1,900.0	1,898.8	1,888.9	1,887.7	5.6	5.5	-120.23	8.6	-84.5	96.5	86.1	10.36	9.314	
1,995.0	1,993.0	1,979.4	1,977.1	5.8	5.8	-121.45	13.6	-97.2	114.5	103.8	10.76	10.641	
2,000.0	1,998.0	1,984.1	1,981.8	5.8	5.8	-121.48	13.9	-97.9	115.6	104.8	10.79	10.715	
2,090.0	2,087.3	2,068.8	2,065.1	6.1	6.1	-121.65	19.6	-112.3	135.1	123.9	11.18	12.087	
2,100.0	2,097.3	2,078.2	2,074.3	6.1	6.2	-121.63	20.3	-114.1	137.4	126.2	11.22	12.246	
2,185.0	2,181.6	2,157.2	2,151.5	6.3	6.5	-121.24	26.6	-129.8	158.1	146.5	11.60	13.629	
2,200.0	2,196.5	2,171.1	2,164.9	6.4	6.5	-121.14	27.7	-132.7	161.9	150.3	11.67	13.881	
2,280.0	2,275.9	2,246.7	2,238.4	6.6	6.8	-120.51	34.4	-149.6	183.2	171.1	12.03	15.224	
2,300.0	2,295.8	2,266.0	2,257.1	6.6	6.8	-120.37	36.1	-154.0	188.5	176.4	12.12	15.549	
2,375.0	2,370.2	2,338.3	2,327.2	6.9	7.0	-119.89	42.6	-170.2	208.5	196.1	12.48	16.712	
2,400.0	2,395.0	2,362.4	2,350.6	6.9	7.1	-119.76	44.7	-175.6	215.2	202.6	12.60	17.083	

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

ConocoPhillips

Anticollision Report

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Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,470.0	2,464.5	2,429.8	2,416.0	7.2	7.4	-119.41	50.7	-190.8	233.9	221.0	12.94	18.075		
2,500.0	2,494.3	2,458.7	2,444.1	7.3	7.5	-119.28	53.3	-197.3	241.9	228.9	13.09	18.481		
2,565.0	2,558.8	2,521.3	2,504.8	7.5	7.7	-119.02	58.9	-211.4	259.3	245.9	13.42	19.323		
2,600.0	2,593.5	2,555.0	2,537.6	7.6	7.8	-118.90	61.9	-219.0	268.7	255.1	13.60	19.756		
2,660.0	2,653.1	2,612.9	2,593.6	7.8	8.0	-118.70	67.1	-232.0	284.7	270.8	13.91	20.467		
2,700.0	2,692.8	2,651.4	2,631.0	7.9	8.1	-118.58	70.5	-240.6	295.4	281.3	14.12	20.919		
2,755.0	2,747.4	2,704.4	2,682.4	8.1	8.3	-118.44	75.2	-252.6	310.2	295.7	14.41	21.516		
2,800.0	2,792.1	2,747.7	2,724.5	8.3	8.5	-118.32	79.1	-262.3	322.2	307.5	14.66	21.982		
2,850.0	2,841.7	2,795.9	2,771.3	8.4	8.7	-118.21	83.4	-273.2	335.6	320.7	14.93	22.480		
2,900.0	2,891.3	2,844.1	2,818.0	8.6	8.9	-118.10	87.7	-284.0	349.0	333.8	15.20	22.954		
2,945.0	2,936.0	2,887.4	2,860.1	8.8	9.1	-118.01	91.6	-293.7	361.0	345.6	15.45	23.365		
3,000.0	2,990.6	2,940.4	2,911.5	9.0	9.3	-117.91	96.3	-305.7	375.7	360.0	15.76	23.845		
3,040.0	3,030.3	2,979.0	2,948.9	9.1	9.4	-117.84	99.7	-314.3	386.4	370.5	15.98	24.181		
3,100.0	3,089.8	3,036.8	3,005.0	9.3	9.7	-117.75	104.9	-327.3	402.5	386.2	16.32	24.663		
3,135.0	3,124.6	3,070.5	3,037.7	9.4	9.8	-117.70	107.9	-334.9	411.9	395.4	16.52	24.934		
3,200.0	3,189.1	3,133.1	3,098.4	9.7	10.1	-117.60	113.5	-349.0	429.3	412.4	16.89	25.416		
3,230.0	3,218.8	3,162.0	3,126.5	9.8	10.2	-117.56	116.0	-355.5	437.3	420.2	17.06	25.630		
3,300.0	3,288.3	3,229.5	3,191.9	10.0	10.5	-117.48	122.0	-370.7	456.1	438.6	17.47	26.110		
3,325.0	3,313.1	3,253.5	3,215.3	10.1	10.6	-117.45	124.2	-376.1	462.7	445.1	17.61	26.275		
3,400.0	3,387.6	3,325.8	3,285.4	10.4	10.9	-117.36	130.6	-392.3	482.8	464.8	18.05	26.751		
3,420.0	3,407.4	3,345.1	3,304.1	10.5	11.0	-117.34	132.4	-396.7	488.2	470.0	18.17	26.873		
3,500.0	3,486.8	3,422.1	3,378.9	10.8	11.3	-117.26	139.2	-414.0	509.6	491.0	18.64	27.344		
3,515.0	3,501.7	3,436.6	3,392.9	10.9	11.4	-117.25	140.5	-417.3	513.6	494.9	18.73	27.429		
3,600.0	3,586.1	3,518.5	3,472.4	11.2	11.7	-117.17	147.8	-435.7	536.4	517.2	19.23	27.894		
3,610.0	3,596.0	3,528.1	3,481.7	11.2	11.8	-117.16	148.7	-437.9	539.1	519.8	19.29	27.946		
3,700.0	3,685.3	3,614.8	3,565.8	11.6	12.2	-117.09	156.4	-457.4	563.2	543.4	19.83	28.405		
3,705.0	3,690.3	3,619.6	3,570.5	11.6	12.2	-117.09	156.8	-458.4	564.5	544.7	19.86	28.429		
3,800.0	3,784.6	3,711.2	3,659.3	11.9	12.6	-117.02	165.0	-479.0	590.0	569.5	20.43	28.880		
3,895.0	3,878.9	3,802.7	3,748.1	12.3	13.0	-116.95	173.2	-499.6	615.4	594.4	21.00	29.302		
3,900.0	3,883.9	3,807.5	3,752.8	12.3	13.0	-116.95	173.6	-500.7	616.7	595.7	21.03	29.324		
3,990.0	3,973.2	3,894.2	3,836.9	12.7	13.4	-116.89	181.3	-520.2	640.9	619.3	21.58	29.698		
4,000.0	3,983.1	3,903.9	3,846.3	12.7	13.4	-116.89	182.2	-522.4	643.5	621.9	21.64	29.738		
4,085.0	4,067.5	3,985.8	3,925.7	13.0	13.8	-116.84	189.5	-540.8	666.3	644.1	22.16	30.069		
4,100.0	4,082.4	4,000.2	3,939.8	13.1	13.9	-116.83	190.8	-544.0	670.3	648.1	22.25	30.126		
4,180.0	4,161.8	4,077.3	4,014.5	13.4	14.2	-116.78	197.6	-561.4	691.7	669.0	22.74	30.420		
4,198.2	4,179.8	4,094.8	4,031.5	13.5	14.3	-116.78	199.2	-565.3	696.6	673.8	22.85	30.485		
4,200.0	4,181.6	4,096.5	4,033.2	13.5	14.3	-116.78	199.4	-565.7	697.1	674.2	22.86	30.494		
4,275.0	4,256.1	4,168.9	4,103.4	13.8	14.7	-116.89	205.8	-582.0	717.0	693.7	23.32	30.745		
4,300.0	4,281.0	4,193.0	4,126.8	13.9	14.8	-116.91	208.0	-587.4	723.5	700.0	23.47	30.823		
4,370.0	4,350.6	4,260.6	4,192.4	14.2	15.1	-116.92	214.0	-602.6	741.5	717.6	23.90	31.030		
4,400.0	4,380.5	4,289.6	4,220.6	14.3	15.2	-116.91	216.6	-609.1	749.1	725.1	24.08	31.112		
4,465.0	4,445.3	4,352.5	4,281.6	14.5	15.5	-116.86	222.2	-623.3	765.4	740.9	24.47	31.281		
4,500.0	4,480.2	4,386.4	4,314.4	14.6	15.7	-116.81	225.2	-630.9	774.0	749.4	24.68	31.365		
4,560.0	4,540.1	4,444.5	4,370.8	14.8	15.9	-116.70	230.4	-644.0	788.6	763.6	25.03	31.503		
4,600.0	4,580.0	4,483.2	4,408.4	15.0	16.1	-116.60	233.8	-652.7	798.2	772.9	25.27	31.587		
4,655.0	4,635.0	4,536.5	4,460.2	15.1	16.4	-116.45	238.6	-664.7	811.2	785.6	25.59	31.699		
4,700.0	4,679.9	4,580.2	4,502.5	15.3	16.6	-116.30	242.5	-674.5	821.6	795.8	25.85	31.783		
4,750.0	4,729.9	4,628.7	4,549.6	15.4	16.8	-116.12	246.8	-685.4	833.1	807.0	26.13	31.887		
4,800.0	4,779.9	4,683.6	4,602.9	15.6	17.0	-115.88	251.6	-697.6	844.3	817.8	26.44	31.929		
4,845.0	4,824.9	4,734.1	4,652.1	15.7	17.3	-115.65	255.9	-708.4	853.8	827.1	26.72	31.955		
4,898.1	4,878.0	4,794.0	4,710.5	15.7	17.5	-94.49	260.8	-720.6	864.4	837.4	27.05	31.959		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,879.9	4,796.2	4,712.6	15.7	17.5	-94.48	260.9	-721.0	864.8	837.7	27.06	31.961	
4,940.0	4,919.9	4,841.5	4,756.9	15.8	17.7	-94.20	264.4	-729.9	872.4	845.1	27.29	31.966	
5,000.0	4,979.9	4,909.7	4,823.7	15.8	18.1	-93.81	269.5	-742.7	883.3	855.7	27.64	31.954	
5,035.0	5,014.9	4,949.7	4,863.0	15.8	18.2	-93.59	272.3	-749.8	889.4	861.6	27.85	31.941	
5,100.0	5,079.9	5,024.2	4,936.2	15.9	18.6	-93.22	277.3	-762.4	900.1	871.9	28.22	31.899	
5,130.0	5,109.9	5,058.7	4,970.2	15.9	18.7	-93.06	279.5	-767.9	904.9	876.5	28.39	31.874	
5,200.0	5,179.9	5,139.4	5,049.9	15.9	19.1	-92.71	284.3	-780.1	915.2	886.5	28.78	31.799	
5,225.0	5,204.9	5,168.4	5,078.5	15.9	19.2	-92.60	286.0	-784.3	918.7	889.8	28.92	31.768	
5,300.0	5,279.9	5,255.4	5,164.6	16.0	19.6	-92.28	290.6	-795.8	928.6	899.2	29.33	31.660	
5,320.0	5,299.9	5,278.7	5,187.7	16.0	19.7	-92.20	291.7	-798.7	931.0	901.6	29.44	31.627	
5,400.0	5,379.9	5,372.1	5,280.4	16.0	20.0	-91.91	296.0	-809.5	940.1	910.2	29.86	31.485	
5,415.0	5,394.9	5,389.6	5,297.8	16.0	20.1	-91.87	296.7	-811.3	941.7	911.7	29.94	31.455	
5,500.0	5,479.9	5,489.3	5,396.9	16.1	20.5	-91.62	300.5	-820.9	949.8	919.4	30.36	31.278	
5,510.0	5,489.9	5,501.0	5,408.6	16.1	20.6	-91.59	300.9	-822.0	950.6	920.2	30.41	31.256	
5,600.0	5,579.9	5,606.9	5,514.1	16.2	21.0	-91.38	304.2	-830.2	957.6	926.7	30.84	31.046	
5,605.0	5,584.9	5,612.8	5,520.0	16.2	21.0	-91.37	304.4	-830.6	957.9	927.0	30.87	31.034	
5,700.0	5,679.9	5,725.0	5,631.9	16.2	21.4	-91.20	307.0	-837.3	963.5	932.2	31.29	30.794	
5,795.0	5,774.9	5,837.3	5,744.2	16.3	21.8	-91.09	308.8	-841.9	967.4	935.7	31.67	30.542	
5,800.0	5,779.9	5,843.3	5,750.1	16.3	21.8	-91.08	308.9	-842.1	967.5	935.9	31.69	30.529	
5,890.0	5,869.9	5,949.9	5,856.7	16.3	22.1	-91.02	309.9	-844.5	969.6	937.5	32.01	30.293	
5,900.0	5,879.9	5,961.7	5,868.5	16.3	22.1	-91.02	309.9	-844.7	969.7	937.6	32.04	30.267	
5,985.0	5,964.9	6,058.2	5,965.0	16.4	22.2	-91.01	310.1	-845.1	970.1	937.8	32.21	30.120	
6,000.0	5,979.9	6,073.2	5,980.0	16.4	22.2	-91.01	310.1	-845.1	970.1	937.8	32.22	30.105	
6,080.0	6,059.9	6,153.2	6,060.0	16.5	22.3	-91.01	310.1	-845.1	970.1	937.7	32.32	30.014	
6,100.0	6,079.9	6,173.2	6,080.0	16.5	22.3	-91.01	310.1	-845.1	970.1	937.7	32.35	29.991	
6,175.0	6,154.9	6,248.2	6,155.0	16.5	22.3	-91.01	310.1	-845.1	970.1	937.6	32.44	29.903	
6,200.0	6,179.9	6,273.2	6,180.0	16.5	22.3	-91.01	310.1	-845.1	970.1	937.6	32.47	29.874	
6,270.0	6,249.9	6,343.2	6,250.0	16.6	22.3	-91.01	310.1	-845.1	970.1	937.5	32.56	29.792	
6,300.0	6,279.9	6,373.2	6,280.0	16.6	22.4	-91.01	310.1	-845.1	970.1	937.5	32.60	29.757	
6,365.0	6,344.9	6,438.2	6,345.0	16.6	22.4	-91.01	310.1	-845.1	970.1	937.4	32.68	29.682	
6,400.0	6,379.9	6,473.2	6,380.0	16.7	22.4	-91.01	310.1	-845.1	970.1	937.3	32.73	29.642	
6,460.0	6,439.9	6,533.2	6,440.0	16.7	22.4	-91.01	310.1	-845.1	970.1	937.2	32.80	29.573	
6,500.0	6,479.9	6,573.2	6,480.0	16.7	22.4	-91.01	310.1	-845.1	970.1	937.2	32.85	29.527	
6,555.0	6,534.9	6,628.2	6,535.0	16.7	22.5	-91.01	310.1	-845.1	970.1	937.1	32.92	29.464	
6,600.0	6,579.9	6,673.2	6,580.0	16.8	22.5	-91.01	310.1	-845.1	970.1	937.1	32.98	29.413	
6,650.0	6,629.9	6,723.2	6,630.0	16.8	22.5	-91.01	310.1	-845.1	970.1	937.0	33.04	29.356	
6,700.0	6,679.9	6,773.2	6,680.0	16.8	22.5	-91.01	310.1	-845.1	970.1	936.9	33.11	29.299	
6,745.0	6,724.9	6,818.2	6,725.0	16.9	22.5	-91.01	310.1	-845.1	970.1	936.9	33.17	29.249	
6,800.0	6,779.9	6,873.2	6,780.0	16.9	22.5	-91.01	310.1	-845.1	970.1	936.8	33.24	29.187	
6,840.0	6,819.9	6,913.2	6,820.0	16.9	22.6	-91.01	310.1	-845.1	970.1	936.8	33.29	29.142	
6,900.0	6,879.9	6,973.2	6,880.0	17.0	22.6	-91.01	310.1	-845.1	970.1	936.7	33.36	29.075	
6,935.0	6,914.9	7,008.2	6,915.0	17.0	22.6	-91.01	310.1	-845.1	970.1	936.6	33.41	29.036	
7,000.0	6,979.9	7,073.2	6,980.0	17.0	22.6	-91.01	310.1	-845.1	970.1	936.6	33.49	28.964	
7,030.0	7,009.9	7,103.2	7,010.0	17.0	22.6	-91.01	310.1	-845.1	970.1	936.5	33.53	28.931	
7,100.0	7,079.9	7,173.2	7,080.0	17.1	22.7	-91.01	310.1	-845.1	970.1	936.4	33.62	28.853	
7,125.0	7,104.9	7,198.2	7,105.0	17.1	22.7	-91.01	310.1	-845.1	970.1	936.4	33.65	28.826	
7,200.0	7,179.9	7,273.2	7,180.0	17.2	22.7	-91.01	310.1	-845.1	970.1	936.3	33.75	28.744	
7,220.0	7,199.9	7,293.2	7,200.0	17.2	22.7	-91.01	310.1	-845.1	970.1	936.3	33.77	28.722	
7,300.0	7,279.9	7,373.2	7,280.0	17.2	22.7	-91.01	310.1	-845.1	970.1	936.2	33.88	28.634	
7,315.0	7,294.9	7,388.2	7,295.0	17.2	22.8	-91.01	310.1	-845.1	970.1	936.2	33.90	28.618	
7,400.0	7,379.9	7,473.2	7,380.0	17.3	22.8	-91.01	310.1	-845.1	970.1	936.0	34.01	28.526	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,410.0	7,389.9	7,483.2	7,390.0	17.3	22.8	-91.01	310.1	-845.1	970.1	936.0	34.02	28.515		
7,500.0	7,479.9	7,573.2	7,480.0	17.3	22.8	-91.01	310.1	-845.1	970.1	935.9	34.13	28.418		
7,505.0	7,484.9	7,578.2	7,485.0	17.3	22.8	-91.01	310.1	-845.1	970.1	935.9	34.14	28.413		
7,600.0	7,579.9	7,673.2	7,580.0	17.4	22.9	-91.01	310.1	-845.1	970.1	935.8	34.26	28.311		
7,695.0	7,674.9	7,768.2	7,675.0	17.5	22.9	-91.01	310.1	-845.1	970.1	935.7	34.39	28.210		
7,700.0	7,679.9	7,773.2	7,680.0	17.5	22.9	-91.01	310.1	-845.1	970.1	935.7	34.39	28.205		
7,790.0	7,769.9	7,863.2	7,770.0	17.5	22.9	-91.01	310.1	-845.1	970.1	935.5	34.51	28.110		
7,800.0	7,779.9	7,873.2	7,780.0	17.5	23.0	-91.01	310.1	-845.1	970.1	935.5	34.52	28.099		
7,885.0	7,864.9	7,958.2	7,865.0	17.6	23.0	-91.01	310.1	-845.1	970.1	935.4	34.63	28.010		
7,900.0	7,879.9	7,973.2	7,880.0	17.6	23.0	-91.01	310.1	-845.1	970.1	935.4	34.65	27.994		
7,980.0	7,959.9	8,053.2	7,960.0	17.7	23.0	-91.01	310.1	-845.1	970.1	935.3	34.76	27.911		
8,000.0	7,979.9	8,073.2	7,980.0	17.7	23.0	-91.01	310.1	-845.1	970.1	935.3	34.78	27.890		
8,075.0	8,054.9	8,148.2	8,055.0	17.7	23.1	-91.01	310.1	-845.1	970.1	935.2	34.88	27.812		
8,100.0	8,079.9	8,173.2	8,080.0	17.7	23.1	-91.01	310.1	-845.1	970.1	935.1	34.91	27.786		
8,170.0	8,149.9	8,243.2	8,150.0	17.8	23.1	-91.01	310.1	-845.1	970.1	935.0	35.00	27.714		
8,200.0	8,179.9	8,273.2	8,180.0	17.8	23.1	-91.01	310.1	-845.1	970.1	935.0	35.04	27.683		
8,265.0	8,244.9	8,338.2	8,245.0	17.8	23.1	-91.01	310.1	-845.1	970.1	934.9	35.13	27.616		
8,300.0	8,279.9	8,373.2	8,280.0	17.9	23.2	-91.01	310.1	-845.1	970.1	934.9	35.17	27.581		
8,360.0	8,339.9	8,433.2	8,340.0	17.9	23.2	-91.01	310.1	-845.1	970.1	934.8	35.25	27.523		
8,400.0	8,379.9	8,473.2	8,380.0	17.9	23.2	-91.01	310.1	-845.1	970.1	934.8	35.29	27.486		
8,401.3	8,381.2	8,474.5	8,381.3	17.9	23.2	-91.01	310.1	-845.1	970.1	934.8	35.29	27.486		
8,429.2	8,409.0	8,501.5	8,408.3	17.9	23.2	-91.03	309.8	-845.1	970.1	934.7	35.31	27.472		
8,450.0	8,429.9	8,521.5	8,428.2	17.9	23.2	88.46	308.8	-845.1	970.1	934.8	35.32	27.466		
8,455.0	8,434.9	8,526.3	8,433.0	18.0	23.2	88.45	308.5	-845.1	970.1	934.8	35.32	27.465		
8,500.0	8,479.7	8,569.2	8,475.7	18.0	23.2	88.38	303.7	-845.2	970.1	934.8	35.34	27.453		
8,550.0	8,529.0	8,616.9	8,522.5	18.1	23.2	88.30	294.6	-845.2	970.2	934.8	35.35	27.443		
8,600.0	8,577.4	8,664.4	8,568.2	18.1	23.2	88.25	281.7	-845.3	970.2	934.8	35.36	27.436		
8,645.0	8,619.8	8,707.2	8,608.3	18.2	23.3	88.20	266.9	-845.5	970.2	934.8	35.37	27.430		
8,650.0	8,624.5	8,711.9	8,612.7	18.2	23.3	88.20	265.1	-845.5	970.2	934.8	35.37	27.430		
8,700.0	8,669.9	8,759.4	8,655.6	18.3	23.3	88.16	244.8	-845.6	970.2	934.8	35.38	27.425		
8,740.0	8,704.9	8,797.3	8,688.6	18.3	23.3	88.15	226.2	-845.8	970.2	934.9	35.38	27.421		
8,750.0	8,713.4	8,806.8	8,696.7	18.3	23.3	88.14	221.2	-845.8	970.2	934.9	35.38	27.420		
8,800.0	8,754.5	8,854.2	8,735.6	18.4	23.3	88.14	194.2	-846.1	970.2	934.8	35.39	27.413		
8,835.0	8,781.8	8,887.3	8,761.5	18.5	23.3	88.14	173.4	-846.2	970.2	934.8	35.40	27.405		
8,850.0	8,793.1	8,901.6	8,772.2	18.5	23.3	88.14	164.1	-846.3	970.2	934.8	35.41	27.402		
8,900.0	8,828.7	8,950.0	8,806.9	18.6	23.4	88.16	130.3	-846.6	970.2	934.8	35.42	27.389		
8,930.0	8,848.5	8,977.4	8,825.2	18.6	23.4	88.18	109.9	-846.8	970.2	934.8	35.44	27.374		
8,950.0	8,861.1	8,996.4	8,837.3	18.6	23.4	88.20	95.2	-846.9	970.2	934.8	35.45	27.366		
9,000.0	8,890.0	9,043.9	8,865.4	18.7	23.4	88.24	57.0	-847.2	970.2	934.7	35.49	27.336		
9,025.0	8,903.1	9,067.7	8,878.3	18.7	23.4	88.27	37.0	-847.4	970.2	934.7	35.51	27.317		
9,050.0	8,915.3	9,091.5	8,890.3	18.7	23.5	88.30	16.5	-847.5	970.2	934.6	35.54	27.298		
9,100.0	8,936.8	9,139.1	8,911.8	18.8	23.5	88.37	-26.0	-847.9	970.1	934.5	35.60	27.250		
9,120.0	8,944.2	9,158.2	8,919.4	18.8	23.5	88.40	-43.5	-848.0	970.1	934.5	35.63	27.227		
9,150.0	8,954.2	9,186.8	8,929.7	18.8	23.5	88.45	-70.3	-848.2	970.1	934.4	35.68	27.191		
9,200.0	8,967.5	9,234.7	8,943.9	18.9	23.6	88.55	-116.0	-848.6	970.0	934.3	35.77	27.120		
9,215.0	8,970.7	9,250.0	8,947.6	18.9	23.6	88.58	-130.8	-848.7	970.0	934.2	35.80	27.097		
9,250.0	8,976.5	9,282.7	8,954.2	18.9	23.6	88.65	-162.8	-849.0	970.0	934.1	35.88	27.038		
9,300.0	8,981.3	9,330.8	8,960.6	18.9	23.7	88.77	-210.5	-849.4	970.0	934.0	36.00	26.945		
9,310.0	8,981.7	9,340.5	8,961.4	18.9	23.7	88.79	-220.1	-849.5	969.9	933.9	36.02	26.926		
9,328.9	8,982.0	9,358.7	8,962.5	18.9	23.7	88.84	-238.3	-849.6	969.9	933.9	36.07	26.888		
9,353.9	8,982.0	9,382.9	8,963.0	18.9	23.8	88.87	-262.5	-849.8	969.9	933.8	36.15	26.832		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,400.0	8,982.0	9,429.0	8,963.0	18.9	23.8	88.87	-308.6	-850.2	969.9	933.6	36.30	26.720		
9,405.0	8,982.0	9,434.0	8,963.0	18.9	23.8	88.87	-313.6	-850.3	969.9	933.6	36.32	26.706		
9,500.0	8,982.1	9,529.0	8,963.1	19.0	24.0	88.87	-408.6	-851.0	969.9	933.2	36.69	26.436		
9,595.0	8,982.1	9,624.0	8,963.2	19.0	24.1	88.87	-503.6	-851.8	969.9	932.8	37.12	26.130		
9,600.0	8,982.1	9,629.0	8,963.2	19.0	24.2	88.87	-508.6	-851.9	969.9	932.8	37.14	26.114		
9,690.0	8,982.2	9,719.0	8,963.2	19.1	24.3	88.87	-598.6	-852.6	969.9	932.3	37.60	25.796		
9,700.0	8,982.2	9,729.0	8,963.2	19.1	24.3	88.88	-608.6	-852.7	969.9	932.3	37.65	25.760		
9,785.0	8,982.2	9,814.0	8,963.3	19.1	24.5	88.88	-693.6	-853.4	969.9	931.8	38.13	25.436		
9,800.0	8,982.2	9,829.0	8,963.3	19.1	24.6	88.88	-708.6	-853.5	969.9	931.7	38.22	25.378		
9,880.0	8,982.3	9,909.0	8,963.4	19.2	24.7	88.88	-788.6	-854.2	969.9	931.2	38.71	25.055		
9,900.0	8,982.3	9,929.0	8,963.4	19.2	24.8	88.88	-808.6	-854.4	969.9	931.1	38.84	24.973		
9,975.0	8,982.3	10,004.0	8,963.4	19.2	25.0	88.88	-883.6	-855.0	969.9	930.6	39.34	24.656		
10,000.0	8,982.3	10,029.0	8,963.4	19.3	25.0	88.88	-908.6	-855.2	969.9	930.4	39.51	24.549		
10,070.0	8,982.3	10,099.0	8,963.5	19.3	25.2	88.88	-978.6	-855.8	969.9	929.9	40.01	24.244		
10,100.0	8,982.4	10,129.0	8,963.5	19.4	25.3	88.88	-1,008.6	-856.0	969.9	929.7	40.23	24.111		
10,165.0	8,982.4	10,194.0	8,963.5	19.4	25.5	88.88	-1,073.6	-856.5	969.9	929.2	40.72	23.820		
10,200.0	8,982.4	10,229.0	8,963.6	19.5	25.6	88.88	-1,108.6	-856.8	969.9	928.9	40.99	23.663		
10,260.0	8,982.4	10,289.0	8,963.6	19.6	25.8	88.88	-1,168.5	-857.3	969.9	928.5	41.47	23.390		
10,300.0	8,982.5	10,329.0	8,963.6	19.6	25.9	88.88	-1,208.5	-857.7	969.9	928.1	41.79	23.208		
10,355.0	8,982.5	10,384.0	8,963.7	19.7	26.1	88.88	-1,263.5	-858.1	969.9	927.7	42.25	22.955		
10,400.0	8,982.5	10,429.0	8,963.7	19.8	26.2	88.88	-1,308.5	-858.5	969.9	927.3	42.64	22.749		
10,450.0	8,982.5	10,479.0	8,963.7	19.9	26.4	88.88	-1,358.5	-858.9	969.9	926.9	43.07	22.518		
10,500.0	8,982.5	10,529.0	8,963.8	20.0	26.5	88.88	-1,408.5	-859.3	969.9	926.4	43.51	22.289		
10,545.0	8,982.6	10,574.0	8,963.8	20.1	26.7	88.89	-1,453.5	-859.7	969.9	926.0	43.92	22.082		
10,600.0	8,982.6	10,629.0	8,963.8	20.2	26.9	88.89	-1,508.5	-860.1	969.9	925.5	44.43	21.831		
10,640.0	8,982.6	10,669.0	8,963.9	20.3	27.0	88.89	-1,548.5	-860.5	969.9	925.1	44.81	21.647		
10,700.0	8,982.6	10,729.0	8,963.9	20.5	27.2	88.89	-1,608.5	-861.0	969.9	924.5	45.38	21.375		
10,735.0	8,982.7	10,764.0	8,963.9	20.6	27.4	88.89	-1,643.5	-861.3	969.9	924.2	45.72	21.216		
10,800.0	8,982.7	10,829.0	8,964.0	20.9	27.6	88.89	-1,708.5	-861.8	969.9	923.6	46.35	20.925		
10,830.0	8,982.7	10,859.0	8,964.0	21.0	27.7	88.89	-1,738.5	-862.0	969.9	923.3	46.65	20.790		
10,900.0	8,982.7	10,929.0	8,964.0	21.2	28.0	88.89	-1,808.5	-862.6	969.9	922.6	47.36	20.481		
10,925.0	8,982.7	10,954.0	8,964.1	21.4	28.1	88.89	-1,833.5	-862.8	969.9	922.3	47.61	20.370		
11,000.0	8,982.8	11,029.0	8,964.1	21.7	28.4	88.89	-1,908.5	-863.4	969.9	921.5	48.39	20.044		
11,020.0	8,982.8	11,049.0	8,964.1	21.8	28.5	88.89	-1,928.5	-863.6	969.9	921.3	48.60	19.957		
11,100.0	8,982.8	11,129.0	8,964.2	22.2	28.9	88.89	-2,008.5	-864.3	969.9	920.5	49.45	19.616		
11,115.0	8,982.8	11,144.0	8,964.2	22.2	28.9	88.89	-2,023.5	-864.4	969.9	920.3	49.61	19.552		
11,200.0	8,982.9	11,229.0	8,964.2	22.7	29.3	88.89	-2,108.5	-865.1	969.9	919.4	50.53	19.196		
11,210.0	8,982.9	11,239.0	8,964.2	22.7	29.3	88.89	-2,118.5	-865.2	969.9	919.3	50.64	19.155		
11,300.0	8,982.9	11,329.0	8,964.3	23.2	29.8	88.89	-2,208.5	-865.9	969.9	918.3	51.63	18.787		
11,305.0	8,982.9	11,334.0	8,964.3	23.2	29.8	88.89	-2,213.5	-866.0	969.9	918.2	51.68	18.766		
11,400.0	8,983.0	11,429.0	8,964.4	23.8	30.2	88.90	-2,308.5	-866.8	969.9	917.2	52.75	18.387		
11,495.0	8,983.0	11,524.0	8,964.4	24.3	30.7	88.90	-2,403.5	-867.5	969.9	916.1	53.84	18.017		
11,500.0	8,983.0	11,529.0	8,964.4	24.4	30.7	88.90	-2,408.5	-867.6	969.9	916.0	53.89	17.997		
11,590.0	8,983.1	11,619.0	8,964.5	24.9	31.1	88.90	-2,498.5	-868.3	969.9	915.0	54.94	17.656		
11,600.0	8,983.1	11,629.0	8,964.5	25.0	31.2	88.90	-2,508.5	-868.4	969.9	914.9	55.05	17.618		
11,685.0	8,983.1	11,714.0	8,964.6	25.5	31.6	88.90	-2,593.5	-869.1	969.9	913.9	56.05	17.304		
11,700.0	8,983.1	11,729.0	8,964.6	25.6	31.7	88.90	-2,608.5	-869.2	969.9	913.7	56.23	17.250		
11,780.0	8,983.1	11,809.0	8,964.6	26.1	32.1	88.90	-2,688.5	-869.9	969.9	912.7	57.18	16.962		
11,800.0	8,983.2	11,829.0	8,964.6	26.2	32.2	88.90	-2,708.5	-870.1	969.9	912.5	57.42	16.891		
11,875.0	8,983.2	11,904.0	8,964.7	26.7	32.6	88.90	-2,783.5	-870.7	969.9	911.6	58.33	16.629		
11,900.0	8,983.2	11,929.0	8,964.7	26.8	32.7	88.90	-2,808.5	-870.9	969.9	911.3	58.63	16.543		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
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	
11,970.0	8,983.2	11,999.0	8,964.8	27.3	33.1	88.90	-2,878.5	-871.5	969.9	910.4	59.48	16.306		
12,000.0	8,983.2	12,029.0	8,964.8	27.5	33.2	88.90	-2,908.5	-871.7	969.9	910.1	59.85	16.206		
12,065.0	8,983.3	12,094.0	8,964.8	27.9	33.6	88.90	-2,973.5	-872.3	969.9	909.3	60.65	15.992		
12,100.0	8,983.3	12,129.0	8,964.8	28.1	33.8	88.90	-3,008.5	-872.5	969.9	908.8	61.09	15.878		
12,160.0	8,983.3	12,189.0	8,964.9	28.5	34.1	88.90	-3,068.5	-873.0	969.9	908.1	61.83	15.686		
12,200.0	8,983.3	12,229.0	8,964.9	28.8	34.3	88.90	-3,108.5	-873.4	969.9	907.6	62.33	15.560		
12,255.0	8,983.4	12,284.0	8,964.9	29.2	34.6	88.91	-3,163.5	-873.8	969.9	906.9	63.03	15.389		
12,300.0	8,983.4	12,329.0	8,965.0	29.5	34.9	88.91	-3,208.5	-874.2	969.9	906.3	63.59	15.252		
12,350.0	8,983.4	12,379.0	8,965.0	29.8	35.2	88.91	-3,258.5	-874.6	969.9	905.7	64.23	15.101		
12,400.0	8,983.4	12,429.0	8,965.0	30.1	35.5	88.91	-3,308.5	-875.0	969.9	905.1	64.86	14.953		
12,445.0	8,983.5	12,474.0	8,965.1	30.4	35.7	88.91	-3,353.5	-875.4	969.9	904.5	65.44	14.822		
12,500.0	8,983.5	12,529.0	8,965.1	30.8	36.0	88.91	-3,408.5	-875.8	969.9	903.8	66.15	14.664		
12,540.0	8,983.5	12,569.0	8,965.1	31.1	36.3	88.91	-3,448.5	-876.2	969.9	903.3	66.66	14.550		
12,600.0	8,983.5	12,629.0	8,965.2	31.5	36.6	88.91	-3,508.5	-876.7	969.9	902.5	67.44	14.383		
12,635.0	8,983.5	12,664.0	8,965.2	31.7	36.8	88.91	-3,543.5	-877.0	969.9	902.0	67.89	14.287		
12,700.0	8,983.6	12,729.0	8,965.2	32.2	37.2	88.91	-3,608.5	-877.5	969.9	901.2	68.74	14.111		
12,730.0	8,983.6	12,759.0	8,965.3	32.4	37.4	88.91	-3,638.5	-877.8	969.9	900.8	69.13	14.031		
12,800.0	8,983.6	12,829.0	8,965.3	32.9	37.8	88.91	-3,708.5	-878.3	969.9	899.9	70.05	13.847		
12,825.0	8,983.6	12,854.0	8,965.3	33.1	37.9	88.91	-3,733.5	-878.5	969.9	899.6	70.38	13.782		
12,900.0	8,983.7	12,929.0	8,965.4	33.6	38.4	88.91	-3,808.5	-879.2	969.9	898.6	71.36	13.591		
12,920.0	8,983.7	12,949.0	8,965.4	33.7	38.5	88.91	-3,828.5	-879.3	969.9	898.3	71.63	13.541		
13,000.0	8,983.7	13,029.0	8,965.4	34.3	39.0	88.91	-3,908.5	-880.0	969.9	897.2	72.69	13.343		
13,015.0	8,983.7	13,044.0	8,965.5	34.4	39.1	88.91	-3,923.5	-880.1	969.9	897.0	72.89	13.307		
13,100.0	8,983.8	13,129.0	8,965.5	35.0	39.6	88.92	-4,008.5	-880.8	969.9	895.9	74.02	13.103		
13,110.0	8,983.8	13,139.0	8,965.5	35.0	39.7	88.92	-4,018.5	-880.9	969.9	895.8	74.16	13.079		
13,200.0	8,983.8	13,229.0	8,965.6	35.7	40.2	88.92	-4,108.4	-881.6	969.9	894.6	75.36	12.870		
13,205.0	8,983.8	13,234.0	8,965.6	35.7	40.2	88.92	-4,113.4	-881.7	969.9	894.5	75.43	12.859		
13,300.0	8,983.9	13,329.0	8,965.6	36.4	40.8	88.92	-4,208.4	-882.5	969.9	893.2	76.71	12.644		
13,395.0	8,983.9	13,424.0	8,965.7	37.1	41.4	88.92	-4,303.4	-883.2	969.9	891.9	78.00	12.436		
13,400.0	8,983.9	13,429.0	8,965.7	37.1	41.5	88.92	-4,308.4	-883.3	969.9	891.9	78.07	12.425		
13,490.0	8,983.9	13,519.0	8,965.8	37.7	42.0	88.92	-4,398.4	-884.0	969.9	890.6	79.29	12.233		
13,500.0	8,983.9	13,529.0	8,965.8	37.8	42.1	88.92	-4,408.4	-884.1	969.9	890.5	79.43	12.212		
13,585.0	8,984.0	13,614.0	8,965.8	38.4	42.6	88.92	-4,493.4	-884.8	969.9	889.4	80.59	12.036		
13,600.0	8,984.0	13,629.0	8,965.8	38.5	42.7	88.92	-4,508.4	-884.9	969.9	889.1	80.79	12.006		
13,680.0	8,984.0	13,709.0	8,965.9	39.1	43.2	88.92	-4,588.4	-885.6	969.9	888.0	81.89	11.845		
13,700.0	8,984.0	13,729.0	8,965.9	39.2	43.4	88.92	-4,608.4	-885.8	969.9	887.8	82.16	11.805		
13,775.0	8,984.1	13,804.0	8,966.0	39.8	43.9	88.92	-4,683.4	-886.4	969.9	886.7	83.19	11.659		
13,800.0	8,984.1	13,829.0	8,966.0	40.0	44.0	88.92	-4,708.4	-886.6	969.9	886.4	83.54	11.611		
13,870.0	8,984.1	13,899.0	8,966.0	40.5	44.5	88.92	-4,778.4	-887.2	969.9	885.4	84.51	11.478		
13,900.0	8,984.1	13,929.0	8,966.0	40.7	44.7	88.93	-4,808.4	-887.4	969.9	885.0	84.92	11.422		
13,965.0	8,984.2	13,994.0	8,966.1	41.1	45.1	88.93	-4,873.4	-888.0	969.9	884.1	85.82	11.302		
14,000.0	8,984.2	14,029.0	8,966.1	41.4	45.3	88.93	-4,908.4	-888.3	969.9	883.6	86.31	11.238		
14,060.0	8,984.2	14,089.0	8,966.1	41.8	45.7	88.93	-4,968.4	-888.7	969.9	882.8	87.14	11.131		
14,100.0	8,984.2	14,129.0	8,966.2	42.1	46.0	88.93	-5,008.4	-889.1	969.9	882.2	87.70	11.060		
14,155.0	8,984.3	14,184.0	8,966.2	42.5	46.3	88.93	-5,063.4	-889.5	969.9	881.5	88.47	10.964		
14,200.0	8,984.3	14,229.0	8,966.2	42.8	46.6	88.93	-5,108.4	-889.9	969.9	880.8	89.09	10.887		
14,250.0	8,984.3	14,279.0	8,966.3	43.2	47.0	88.93	-5,158.4	-890.3	969.9	880.1	89.79	10.802		
14,300.0	8,984.3	14,329.0	8,966.3	43.6	47.3	88.93	-5,208.4	-890.7	969.9	879.4	90.49	10.718		
14,345.0	8,984.3	14,374.0	8,966.3	43.9	47.6	88.93	-5,253.4	-891.1	969.9	878.8	91.12	10.644		
14,400.0	8,984.4	14,429.0	8,966.4	44.3	48.0	88.93	-5,308.4	-891.6	969.9	878.0	91.90	10.555		
14,440.0	8,984.4	14,469.0	8,966.4	44.6	48.2	88.93	-5,348.4	-891.9	969.9	877.5	92.46	10.490		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft		
Reference Offset				Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
14,500.0	8,984.4	14,529.0	8,966.4	45.0	48.6	88.93	-5,408.4	-892.4	969.9	876.6	93.30	10.395			
14,535.0	8,984.4	14,564.0	8,966.5	45.3	48.9	88.93	-5,443.4	-892.7	969.9	876.1	93.80	10.341			
14,600.0	8,984.5	14,629.0	8,966.5	45.8	49.3	88.93	-5,508.4	-893.2	969.9	875.2	94.72	10.241			
14,630.0	8,984.5	14,659.0	8,966.5	46.0	49.5	88.93	-5,538.4	-893.5	969.9	874.8	95.14	10.195			
14,700.0	8,984.5	14,729.0	8,966.6	46.5	50.0	88.93	-5,608.4	-894.0	969.9	873.8	96.13	10.090			
14,725.0	8,984.5	14,754.0	8,966.6	46.7	50.1	88.94	-5,633.4	-894.2	969.9	873.5	96.49	10.053			
14,800.0	8,984.6	14,829.0	8,966.6	47.2	50.7	88.94	-5,708.4	-894.9	969.9	872.4	97.55	9.943			
14,820.0	8,984.6	14,849.0	8,966.7	47.4	50.8	88.94	-5,728.4	-895.0	969.9	872.1	97.83	9.914			
14,900.0	8,984.6	14,929.0	8,966.7	47.9	51.3	88.94	-5,808.4	-895.7	969.9	871.0	98.97	9.800			
14,915.0	8,984.6	14,944.0	8,966.7	48.1	51.4	88.94	-5,823.4	-895.8	969.9	870.8	99.18	9.779			
15,000.0	8,984.6	15,029.0	8,966.8	48.7	52.0	88.94	-5,908.4	-896.5	969.9	869.5	100.39	9.661			
15,010.0	8,984.7	15,039.0	8,966.8	48.8	52.1	88.94	-5,918.4	-896.6	969.9	869.4	100.54	9.648			
15,100.0	8,984.7	15,129.0	8,966.8	49.4	52.7	88.94	-6,008.4	-897.3	969.9	868.1	101.82	9.526			
15,105.0	8,984.7	15,134.0	8,966.8	49.5	52.7	88.94	-6,013.4	-897.4	969.9	868.0	101.89	9.519			
15,200.0	8,984.7	15,229.0	8,966.9	50.2	53.4	88.94	-6,108.4	-898.2	969.9	866.7	103.25	9.394			
15,295.0	8,984.8	15,324.0	8,967.0	50.9	54.0	88.94	-6,203.4	-899.0	969.9	865.3	104.61	9.272			
15,300.0	8,984.8	15,329.0	8,967.0	50.9	54.1	88.94	-6,208.4	-899.0	969.9	865.3	104.68	9.265			
15,390.0	8,984.8	15,419.0	8,967.0	51.6	54.7	88.94	-6,298.4	-899.7	969.9	864.0	105.98	9.152			
15,400.0	8,984.8	15,429.0	8,967.0	51.6	54.8	88.94	-6,308.4	-899.8	969.9	863.8	106.12	9.140			
15,485.0	8,984.9	15,514.0	8,967.1	52.3	55.4	88.94	-6,393.4	-900.5	969.9	862.6	107.34	9.036			
15,500.0	8,984.9	15,529.0	8,967.1	52.4	55.5	88.94	-6,408.4	-900.7	969.9	862.4	107.56	9.018			
15,580.0	8,984.9	15,609.0	8,967.2	53.0	56.0	88.95	-6,488.4	-901.3	969.9	861.2	108.71	8.922			
15,600.0	8,984.9	15,629.0	8,967.2	53.1	56.2	88.95	-6,508.4	-901.5	969.9	860.9	109.00	8.899			
15,675.0	8,985.0	15,704.0	8,967.2	53.7	56.7	88.95	-6,583.4	-902.1	969.9	859.9	110.08	8.811			
15,700.0	8,985.0	15,729.0	8,967.2	53.8	56.9	88.95	-6,608.4	-902.3	969.9	859.5	110.44	8.782			
15,770.0	8,985.0	15,799.0	8,967.3	54.4	57.3	88.95	-6,678.4	-902.9	969.9	858.5	111.45	8.703			
15,800.0	8,985.0	15,829.0	8,967.3	54.6	57.6	88.95	-6,708.4	-903.1	969.9	858.1	111.89	8.669			
15,865.0	8,985.1	15,894.0	8,967.4	55.1	58.0	88.95	-6,773.4	-903.7	969.9	857.1	112.83	8.597			
15,900.0	8,985.1	15,929.0	8,967.4	55.3	58.3	88.95	-6,808.4	-904.0	969.9	856.6	113.33	8.558			
15,960.0	8,985.1	15,989.0	8,967.4	55.8	58.7	88.95	-6,868.4	-904.5	969.9	855.7	114.20	8.493			
16,000.0	8,985.1	16,029.0	8,967.4	56.1	59.0	88.95	-6,908.4	-904.8	969.9	855.2	114.78	8.450			
16,055.0	8,985.1	16,084.0	8,967.5	56.5	59.3	88.95	-6,963.4	-905.2	969.9	854.4	115.58	8.392			
16,100.0	8,985.2	16,129.0	8,967.5	56.8	59.7	88.95	-7,008.3	-905.6	969.9	853.7	116.23	8.345			
16,150.0	8,985.2	16,179.0	8,967.5	57.2	60.0	88.95	-7,058.3	-906.0	969.9	853.0	116.96	8.293			
16,200.0	8,985.2	16,229.0	8,967.6	57.6	60.4	88.95	-7,108.3	-906.4	969.9	852.3	117.69	8.242			
16,245.0	8,985.2	16,274.0	8,967.6	57.9	60.7	88.95	-7,153.3	-906.8	969.9	851.6	118.34	8.196			
16,300.0	8,985.3	16,329.0	8,967.6	58.3	61.1	88.95	-7,208.3	-907.3	969.9	850.8	119.14	8.141			
16,340.0	8,985.3	16,369.0	8,967.7	58.6	61.4	88.95	-7,248.3	-907.6	969.9	850.2	119.72	8.102			
16,400.0	8,985.3	16,429.0	8,967.7	59.0	61.8	88.96	-7,308.3	-908.1	969.9	849.3	120.60	8.043			
16,435.0	8,985.3	16,464.0	8,967.7	59.3	62.0	88.96	-7,343.3	-908.4	969.9	848.8	121.11	8.009			
16,500.0	8,985.3	16,529.0	8,967.8	59.8	62.5	88.96	-7,408.3	-908.9	969.9	847.9	122.06	7.947			
16,530.0	8,985.4	16,559.0	8,967.8	60.0	62.7	88.96	-7,438.3	-909.2	969.9	847.5	122.49	7.918			
16,600.0	8,985.4	16,629.0	8,967.8	60.5	63.2	88.96	-7,508.3	-909.8	969.9	846.4	123.52	7.853			
16,625.0	8,985.4	16,654.0	8,967.9	60.7	63.4	88.96	-7,533.3	-910.0	969.9	846.1	123.88	7.830			
16,700.0	8,985.4	16,729.0	8,967.9	61.3	63.9	88.96	-7,608.3	-910.6	969.9	845.0	124.98	7.761			
16,720.0	8,985.5	16,749.0	8,967.9	61.4	64.1	88.96	-7,628.3	-910.7	969.9	844.7	125.27	7.743			
16,800.0	8,985.5	16,829.0	8,968.0	62.0	64.6	88.96	-7,708.3	-911.4	969.9	843.5	126.44	7.671			
16,815.0	8,985.5	16,844.0	8,968.0	62.1	64.7	88.96	-7,723.3	-911.5	969.9	843.3	126.66	7.658			
16,900.0	8,985.5	16,929.0	8,968.1	62.8	65.3	88.96	-7,808.3	-912.2	970.0	842.0	127.91	7.583			
16,910.0	8,985.5	16,939.0	8,968.1	62.8	65.4	88.96	-7,818.3	-912.3	970.0	841.9	128.05	7.575			
17,000.0	8,985.6	17,029.0	8,968.1	63.5	66.1	88.96	-7,908.3	-913.1	970.0	840.6	129.37	7.497			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft		
Reference Offset				Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
17,005.0	8,985.6	17,034.0	8,968.1	63.6	66.1	88.96	-7,913.3	-913.1	970.0	840.5	129.45	7.493			
17,100.0	8,985.6	17,129.0	8,968.2	64.3	66.8	88.96	-8,008.3	-913.9	970.0	839.1	130.84	7.413			
17,195.0	8,985.7	17,224.0	8,968.2	65.0	67.4	88.96	-8,103.3	-914.7	970.0	837.7	132.24	7.335			
17,200.0	8,985.7	17,229.0	8,968.3	65.0	67.5	88.96	-8,108.3	-914.7	970.0	837.6	132.31	7.331			
17,290.0	8,985.7	17,319.0	8,968.3	65.7	68.1	88.97	-8,198.3	-915.5	970.0	836.3	133.63	7.258			
17,300.0	8,985.7	17,329.0	8,968.3	65.8	68.2	88.97	-8,208.3	-915.5	970.0	836.2	133.78	7.250			
17,385.0	8,985.8	17,414.0	8,968.4	66.4	68.8	88.97	-8,293.3	-916.2	970.0	834.9	135.03	7.183			
17,400.0	8,985.8	17,429.0	8,968.4	66.5	68.9	88.97	-8,308.3	-916.4	970.0	834.7	135.25	7.171			
17,480.0	8,985.8	17,509.0	8,968.4	67.1	69.5	88.97	-8,388.3	-917.0	970.0	833.5	136.43	7.110			
17,500.0	8,985.8	17,529.0	8,968.5	67.3	69.6	88.97	-8,408.3	-917.2	970.0	833.2	136.72	7.094			
17,575.0	8,985.8	17,604.0	8,968.5	67.8	70.2	88.97	-8,483.3	-917.8	970.0	832.1	137.83	7.037			
17,600.0	8,985.9	17,629.0	8,968.5	68.0	70.4	88.97	-8,508.3	-918.0	970.0	831.8	138.20	7.019			
17,670.0	8,985.9	17,699.0	8,968.6	68.5	70.9	88.97	-8,578.3	-918.6	970.0	830.7	139.23	6.967			
17,700.0	8,985.9	17,729.0	8,968.6	68.8	71.1	88.97	-8,608.3	-918.8	970.0	830.3	139.67	6.944			
17,765.0	8,985.9	17,794.0	8,968.6	69.2	71.6	88.97	-8,673.3	-919.4	970.0	829.3	140.63	6.897			
17,800.0	8,986.0	17,829.0	8,968.7	69.5	71.8	88.97	-8,708.3	-919.7	970.0	828.8	141.15	6.872			
17,860.0	8,986.0	17,889.0	8,968.7	70.0	72.2	88.97	-8,768.3	-920.2	970.0	827.9	142.04	6.829			
17,900.0	8,986.0	17,929.0	8,968.7	70.3	72.5	88.97	-8,808.3	-920.5	970.0	827.3	142.63	6.801			
17,955.0	8,986.0	17,984.0	8,968.8	70.7	72.9	88.97	-8,863.3	-921.0	970.0	826.5	143.44	6.762			
18,000.0	8,986.0	18,029.0	8,968.8	71.0	73.3	88.97	-8,908.3	-921.3	970.0	825.8	144.11	6.731			
18,050.0	8,986.1	18,079.0	8,968.8	71.4	73.6	88.97	-8,958.3	-921.7	970.0	825.1	144.84	6.697			
18,100.0	8,986.1	18,129.0	8,968.9	71.8	74.0	88.98	-9,008.3	-922.2	970.0	824.4	145.58	6.662			
18,145.0	8,986.1	18,174.0	8,968.9	72.1	74.3	88.98	-9,053.3	-922.5	970.0	823.7	146.25	6.632			
18,200.0	8,986.1	18,229.0	8,968.9	72.5	74.7	88.98	-9,108.3	-923.0	970.0	822.9	147.07	6.595			
18,240.0	8,986.2	18,269.0	8,968.9	72.8	75.0	88.98	-9,148.3	-923.3	970.0	822.3	147.66	6.569			
18,300.0	8,986.2	18,329.0	8,969.0	73.3	75.4	88.98	-9,208.3	-923.8	970.0	821.4	148.55	6.530			
18,335.0	8,986.2	18,364.0	8,969.0	73.5	75.7	88.98	-9,243.3	-924.1	970.0	820.9	149.07	6.507			
18,400.0	8,986.2	18,429.0	8,969.1	74.0	76.2	88.98	-9,308.3	-924.6	970.0	819.9	150.03	6.465			
18,430.0	8,986.2	18,459.0	8,969.1	74.2	76.4	88.98	-9,338.3	-924.9	970.0	819.5	150.47	6.446			
18,500.0	8,986.3	18,529.0	8,969.1	74.8	76.9	88.98	-9,408.3	-925.5	970.0	818.4	151.51	6.402			
18,525.0	8,986.3	18,554.0	8,969.1	74.9	77.1	88.98	-9,433.3	-925.7	970.0	818.1	151.88	6.386			
18,600.0	8,986.3	18,629.0	8,969.2	75.5	77.6	88.98	-9,508.3	-926.3	970.0	817.0	153.00	6.340			
18,620.0	8,986.3	18,649.0	8,969.2	75.7	77.8	88.98	-9,528.3	-926.5	970.0	816.7	153.29	6.327			
18,700.0	8,986.4	18,729.0	8,969.3	76.3	78.4	88.98	-9,608.3	-927.1	970.0	815.5	154.48	6.279			
18,715.0	8,986.4	18,744.0	8,969.3	76.4	78.5	88.98	-9,623.3	-927.2	970.0	815.3	154.70	6.270			
18,800.0	8,986.4	18,829.0	8,969.3	77.0	79.1	88.98	-9,708.3	-927.9	970.0	814.0	155.97	6.219			
18,810.0	8,986.4	18,839.0	8,969.3	77.1	79.2	88.98	-9,718.3	-928.0	970.0	813.8	156.12	6.213			
18,900.0	8,986.5	18,929.0	8,969.4	77.8	79.8	88.99	-9,808.3	-928.8	970.0	812.5	157.45	6.160			
18,905.0	8,986.5	18,934.0	8,969.4	77.8	79.9	88.99	-9,813.3	-928.8	970.0	812.4	157.53	6.157			
19,000.0	8,986.5	19,029.0	8,969.5	78.5	80.6	88.99	-9,908.2	-929.6	970.0	811.0	158.94	6.103			
19,095.0	8,986.6	19,124.0	8,969.5	79.2	81.2	88.99	-10,003.2	-930.4	970.0	809.6	160.35	6.049			
19,100.0	8,986.6	19,129.0	8,969.5	79.3	81.3	88.99	-10,008.2	-930.4	970.0	809.5	160.43	6.046			
19,190.0	8,986.6	19,219.0	8,969.6	80.0	81.9	88.99	-10,098.2	-931.2	970.0	808.2	161.77	5.996			
19,200.0	8,986.6	19,229.0	8,969.6	80.0	82.0	88.99	-10,108.2	-931.2	970.0	808.0	161.92	5.990			
19,285.0	8,986.6	19,314.0	8,969.6	80.7	82.6	88.99	-10,193.2	-932.0	970.0	806.8	163.18	5.944			
19,300.0	8,986.7	19,329.0	8,969.7	80.8	82.8	88.99	-10,208.2	-932.1	970.0	806.6	163.41	5.936			
19,380.0	8,986.7	19,409.0	8,969.7	81.4	83.3	88.99	-10,288.2	-932.7	970.0	805.4	164.60	5.893			
19,400.0	8,986.7	19,429.0	8,969.7	81.5	83.5	88.99	-10,308.2	-932.9	970.0	805.1	164.90	5.882			
19,475.0	8,986.7	19,504.0	8,969.8	82.1	84.0	88.99	-10,383.2	-933.5	970.0	803.9	166.02	5.843			
19,500.0	8,986.7	19,529.0	8,969.8	82.3	84.2	88.99	-10,408.2	-933.7	970.0	803.6	166.39	5.830			
19,570.0	8,986.8	19,599.0	8,969.8	82.8	84.7	88.99	-10,478.2	-934.3	970.0	802.5	167.43	5.793			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,600.0	8,986.8	19,629.0	8,969.9	83.0	85.0	88.99	-10,508.2	-934.6	970.0	802.1	167.88	5.778	
19,665.0	8,986.8	19,694.0	8,969.9	83.5	85.4	88.99	-10,573.2	-935.1	970.0	801.1	168.85	5.745	
19,700.0	8,986.8	19,729.0	8,969.9	83.8	85.7	88.99	-10,608.2	-935.4	970.0	800.6	169.37	5.727	
19,760.0	8,986.9	19,789.0	8,970.0	84.3	86.1	89.00	-10,668.2	-935.9	970.0	799.7	170.27	5.697	
19,800.0	8,986.9	19,829.0	8,970.0	84.6	86.4	89.00	-10,708.2	-936.2	970.0	799.1	170.86	5.677	
19,855.0	8,986.9	19,884.0	8,970.0	85.0	86.8	89.00	-10,763.2	-936.7	970.0	798.3	171.69	5.650	
19,900.0	8,986.9	19,929.0	8,970.1	85.3	87.2	89.00	-10,808.2	-937.0	970.0	797.6	172.36	5.628	
19,950.0	8,987.0	19,979.0	8,970.1	85.7	87.5	89.00	-10,858.2	-937.5	970.0	796.9	173.11	5.603	
20,000.0	8,987.0	20,029.0	8,970.1	86.1	87.9	89.00	-10,908.2	-937.9	970.0	796.1	173.85	5.579	
20,045.0	8,987.0	20,074.0	8,970.2	86.4	88.2	89.00	-10,953.2	-938.2	970.0	795.4	174.52	5.558	
20,100.0	8,987.0	20,129.0	8,970.2	86.8	88.6	89.00	-11,008.2	-938.7	970.0	794.6	175.35	5.532	
20,140.0	8,987.0	20,169.0	8,970.2	87.1	88.9	89.00	-11,048.2	-939.0	970.0	794.0	175.95	5.513	
20,200.0	8,987.1	20,229.0	8,970.3	87.6	89.4	89.00	-11,108.2	-939.5	970.0	793.1	176.84	5.485	
20,235.0	8,987.1	20,264.0	8,970.3	87.8	89.6	89.00	-11,143.2	-939.8	970.0	792.6	177.37	5.469	
20,300.0	8,987.1	20,329.0	8,970.3	88.3	90.1	89.00	-11,208.2	-940.3	970.0	791.6	178.34	5.439	
20,330.0	8,987.1	20,359.0	8,970.3	88.6	90.3	89.00	-11,238.2	-940.6	970.0	791.2	178.79	5.425	
20,400.0	8,987.2	20,429.0	8,970.4	89.1	90.9	89.00	-11,308.2	-941.2	970.0	790.1	179.83	5.394	
20,425.0	8,987.2	20,454.0	8,970.4	89.3	91.0	89.00	-11,333.2	-941.4	970.0	789.8	180.21	5.382	
20,500.0	8,987.2	20,529.0	8,970.5	89.8	91.6	89.00	-11,408.2	-942.0	970.0	788.6	181.33	5.349	
20,520.0	8,987.2	20,549.0	8,970.5	90.0	91.7	89.00	-11,428.2	-942.2	970.0	788.3	181.63	5.340	
20,600.0	8,987.3	20,629.0	8,970.5	90.6	92.3	89.01	-11,508.2	-942.8	970.0	787.1	182.83	5.305	
20,615.0	8,987.3	20,644.0	8,970.5	90.7	92.5	89.01	-11,523.2	-942.9	970.0	786.9	183.05	5.299	
20,700.0	8,987.3	20,729.0	8,970.6	91.4	93.1	89.01	-11,608.2	-943.7	970.0	785.6	184.33	5.262	
20,710.0	8,987.3	20,739.0	8,970.6	91.4	93.2	89.01	-11,618.2	-943.7	970.0	785.5	184.48	5.258	
20,800.0	8,987.4	20,829.0	8,970.7	92.1	93.8	89.01	-11,708.2	-944.5	970.0	784.1	185.82	5.220	
20,805.0	8,987.4	20,834.0	8,970.7	92.1	93.9	89.01	-11,713.2	-944.5	970.0	784.1	185.90	5.218	
20,900.0	8,987.4	20,929.0	8,970.7	92.9	94.6	89.01	-11,808.2	-945.3	970.0	782.6	187.32	5.178	
20,995.0	8,987.4	21,024.0	8,970.8	93.6	95.3	89.01	-11,903.2	-946.1	970.0	781.2	188.75	5.139	
21,000.0	8,987.4	21,029.0	8,970.8	93.6	95.3	89.01	-11,908.2	-946.1	970.0	781.1	188.82	5.137	
21,090.0	8,987.5	21,119.0	8,970.9	94.3	96.0	89.01	-11,998.2	-946.9	970.0	779.8	190.17	5.100	
21,100.0	8,987.5	21,129.0	8,970.9	94.4	96.0	89.01	-12,008.2	-947.0	970.0	779.6	190.32	5.096	
21,185.0	8,987.5	21,214.0	8,970.9	95.0	96.7	89.01	-12,093.2	-947.7	970.0	778.4	191.60	5.063	
21,200.0	8,987.5	21,229.0	8,970.9	95.1	96.8	89.01	-12,108.2	-947.8	970.0	778.1	191.82	5.057	
21,280.0	8,987.6	21,309.0	8,971.0	95.7	97.4	89.01	-12,188.2	-948.4	970.0	776.9	193.02	5.025	
21,300.0	8,987.6	21,329.0	8,971.0	95.9	97.5	89.01	-12,208.2	-948.6	970.0	776.6	193.32	5.017	
21,375.0	8,987.6	21,404.0	8,971.0	96.5	98.1	89.01	-12,283.2	-949.2	970.0	775.5	194.45	4.988	
21,400.0	8,987.6	21,429.0	8,971.1	96.6	98.3	89.02	-12,308.2	-949.4	970.0	775.1	194.82	4.979	
21,470.0	8,987.7	21,499.0	8,971.1	97.2	98.8	89.02	-12,378.2	-950.0	970.0	774.1	195.88	4.952	
21,500.0	8,987.7	21,529.0	8,971.1	97.4	99.0	89.02	-12,408.2	-950.3	970.0	773.6	196.33	4.941	
21,565.0	8,987.7	21,594.0	8,971.2	97.9	99.5	89.02	-12,473.2	-950.8	970.0	772.7	197.30	4.916	
21,600.0	8,987.7	21,629.0	8,971.2	98.2	99.8	89.02	-12,508.2	-951.1	970.0	772.1	197.83	4.903	
21,660.0	8,987.8	21,689.0	8,971.2	98.6	100.2	89.02	-12,568.2	-951.6	970.0	771.2	198.73	4.881	
21,700.0	8,987.8	21,729.0	8,971.3	98.9	100.5	89.02	-12,608.2	-951.9	970.0	770.6	199.33	4.866	
21,755.0	8,987.8	21,784.0	8,971.3	99.3	100.9	89.02	-12,663.2	-952.4	970.0	769.8	200.16	4.846	
21,800.0	8,987.8	21,829.0	8,971.3	99.7	101.3	89.02	-12,708.2	-952.7	970.0	769.1	200.83	4.830	
21,850.0	8,987.8	21,879.0	8,971.4	100.1	101.6	89.02	-12,758.2	-953.2	970.0	768.4	201.58	4.812	
21,900.0	8,987.9	21,929.0	8,971.4	100.4	102.0	89.02	-12,808.1	-953.6	970.0	767.6	202.34	4.794	
21,945.0	8,987.9	21,974.0	8,971.4	100.8	102.3	89.02	-12,853.1	-953.9	970.0	767.0	203.01	4.778	
22,000.0	8,987.9	22,029.0	8,971.5	101.2	102.7	89.02	-12,908.1	-954.4	970.0	766.1	203.84	4.759	
22,040.0	8,987.9	22,069.0	8,971.5	101.5	103.0	89.02	-12,948.1	-954.7	970.0	765.5	204.44	4.745	
22,100.0	8,988.0	22,129.0	8,971.5	102.0	103.5	89.02	-13,008.1	-955.2	970.0	764.6	205.34	4.724	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Rule Assigned:								
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	8,988.0	22,164.0	8,971.6	102.2	103.7	89.02	-13,043.1	-955.5	970.0	764.1	205.87	4.712	
22,200.0	8,988.0	22,229.0	8,971.6	102.7	104.2	89.02	-13,108.1	-956.1	970.0	763.1	206.85	4.689	
22,230.0	8,988.0	22,259.0	8,971.6	102.9	104.5	89.02	-13,138.1	-956.3	970.0	762.7	207.30	4.679	
22,300.0	8,988.1	22,329.0	8,971.7	103.5	105.0	89.03	-13,208.1	-956.9	970.0	761.6	208.35	4.655	
22,325.0	8,988.1	22,354.0	8,971.7	103.7	105.2	89.03	-13,233.1	-957.1	970.0	761.2	208.73	4.647	
22,400.0	8,988.1	22,429.0	8,971.7	104.2	105.7	89.03	-13,308.1	-957.7	970.0	760.1	209.86	4.622	
22,420.0	8,988.1	22,449.0	8,971.7	104.4	105.9	89.03	-13,328.1	-957.9	970.0	759.8	210.16	4.615	
22,500.0	8,988.1	22,529.0	8,971.8	105.0	106.5	89.03	-13,408.1	-958.5	970.0	758.6	211.36	4.589	
22,515.0	8,988.2	22,544.0	8,971.8	105.1	106.6	89.03	-13,423.1	-958.7	970.0	758.4	211.59	4.584	
22,600.0	8,988.2	22,629.0	8,971.9	105.7	107.2	89.03	-13,508.1	-959.4	970.0	757.1	212.87	4.557	
22,610.0	8,988.2	22,639.0	8,971.9	105.8	107.3	89.03	-13,518.1	-959.4	970.0	757.0	213.02	4.553	
22,700.0	8,988.2	22,729.0	8,971.9	106.5	108.0	89.03	-13,608.1	-960.2	970.0	755.6	214.37	4.525	
22,705.0	8,988.2	22,734.0	8,971.9	106.5	108.0	89.03	-13,613.1	-960.2	970.0	755.5	214.45	4.523	
22,800.0	8,988.3	22,829.0	8,972.0	107.3	108.7	89.03	-13,708.1	-961.0	970.0	754.1	215.88	4.493	
22,895.0	8,988.3	22,924.0	8,972.1	108.0	109.4	89.03	-13,803.1	-961.8	970.0	752.7	217.31	4.464	
22,900.0	8,988.3	22,929.0	8,972.1	108.0	109.5	89.03	-13,808.1	-961.8	970.0	752.6	217.39	4.462	
22,990.0	8,988.4	23,019.0	8,972.1	108.7	110.1	89.03	-13,898.1	-962.6	970.0	751.2	218.74	4.434	
23,000.0	8,988.4	23,029.0	8,972.1	108.8	110.2	89.03	-13,908.1	-962.7	970.0	751.1	218.89	4.431	
23,085.0	8,988.4	23,114.0	8,972.2	109.4	110.8	89.04	-13,993.1	-963.4	970.0	749.8	220.17	4.406	
23,100.0	8,988.4	23,129.0	8,972.2	109.5	111.0	89.04	-14,008.1	-963.5	970.0	749.6	220.40	4.401	
23,180.0	8,988.5	23,209.0	8,972.3	110.1	111.6	89.04	-14,088.1	-964.2	970.0	748.4	221.61	4.377	
23,200.0	8,988.5	23,229.0	8,972.3	110.3	111.7	89.04	-14,108.1	-964.3	970.0	748.1	221.91	4.371	
23,275.0	8,988.5	23,304.0	8,972.3	110.9	112.3	89.04	-14,183.1	-964.9	970.0	746.9	223.04	4.349	
23,300.0	8,988.5	23,329.0	8,972.3	111.0	112.4	89.04	-14,208.1	-965.2	970.0	746.6	223.41	4.342	
23,370.0	8,988.6	23,399.0	8,972.4	111.6	113.0	89.04	-14,278.1	-965.7	970.0	745.5	224.47	4.321	
23,400.0	8,988.6	23,429.0	8,972.4	111.8	113.2	89.04	-14,308.1	-966.0	970.0	745.1	224.92	4.313	
23,465.0	8,988.6	23,494.0	8,972.4	112.3	113.7	89.04	-14,373.1	-966.5	970.0	744.1	225.90	4.294	
23,500.0	8,988.6	23,529.0	8,972.5	112.6	113.9	89.04	-14,408.1	-966.8	970.0	743.5	226.43	4.284	
23,560.0	8,988.6	23,589.0	8,972.5	113.0	114.4	89.04	-14,468.1	-967.3	970.0	742.6	227.34	4.267	
23,600.0	8,988.7	23,629.0	8,972.5	113.3	114.7	89.04	-14,508.1	-967.6	970.0	742.0	227.94	4.255	
23,655.0	8,988.7	23,684.0	8,972.6	113.7	115.1	89.04	-14,563.1	-968.1	970.0	741.2	228.77	4.240	
23,700.0	8,988.7	23,729.0	8,972.6	114.1	115.4	89.04	-14,608.1	-968.5	970.0	740.5	229.45	4.227	
23,750.0	8,988.7	23,779.0	8,972.6	114.5	115.8	89.04	-14,658.1	-968.9	970.0	739.8	230.20	4.214	
23,800.0	8,988.8	23,829.0	8,972.7	114.8	116.2	89.04	-14,708.1	-969.3	970.0	739.0	230.96	4.200	
23,845.0	8,988.8	23,874.0	8,972.7	115.2	116.5	89.04	-14,753.1	-969.7	970.0	738.3	231.64	4.188	
23,900.0	8,988.8	23,929.0	8,972.7	115.6	116.9	89.04	-14,808.1	-970.1	970.0	737.5	232.47	4.173	
23,940.0	8,988.8	23,969.0	8,972.8	115.9	117.2	89.05	-14,848.1	-970.4	970.0	736.9	233.07	4.162	
24,000.0	8,988.8	24,029.0	8,972.8	116.4	117.7	89.05	-14,908.1	-970.9	970.0	736.0	233.98	4.146	
24,035.0	8,988.9	24,064.0	8,972.8	116.6	118.0	89.05	-14,943.1	-971.2	970.0	735.5	234.50	4.136	
24,100.0	8,988.9	24,129.0	8,972.9	117.1	118.4	89.05	-15,008.1	-971.8	970.0	734.5	235.49	4.119	
24,130.0	8,988.9	24,159.0	8,972.9	117.3	118.7	89.05	-15,038.1	-972.0	970.0	734.0	235.94	4.111	
24,190.8	8,988.9	24,219.8	8,972.9	117.8	119.1	89.05	-15,098.9	-972.5	970.0	733.1	236.86	4.095	
24,200.0	8,988.9	24,229.0	8,972.9	117.9	119.2	89.05	-15,108.1	-972.6	970.0	733.0	236.99	4.093	
24,225.0	8,989.0	24,254.0	8,973.0	118.1	119.4	89.05	-15,133.1	-972.8	970.0	732.6	237.37	4.086	
24,231.4	8,989.0	24,260.4	8,973.0	118.1	119.4	89.05	-15,139.5	-972.9	970.0	732.5	237.47	4.085	
24,300.0	8,989.0	24,323.6	8,973.0	118.6	119.9	89.05	-15,202.7	-973.4	970.0	731.5	238.48	4.067	
24,320.0	8,989.0	24,323.6	8,973.0	118.8	119.9	89.05	-15,202.7	-973.4	970.3	731.7	238.62	4.066 SF	
24,320.8	8,989.0	24,323.6	8,973.0	118.8	119.9	89.05	-15,202.7	-973.4	970.3	731.7	238.63	4.066	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	0.0	0.0	3.0	3.0	-91.02	-1.6	-90.0	90.0				
95.0	95.0	95.0	95.0	3.0	3.0	-91.02	-1.6	-90.0	90.0	84.0	6.04	14.913	
100.0	100.0	100.0	100.0	3.0	3.0	-91.02	-1.6	-90.0	90.0	84.0	6.04	14.901	
190.0	190.0	190.0	190.0	3.1	3.1	-91.02	-1.6	-90.0	90.0	83.8	6.25	14.397	
200.0	200.0	200.0	200.0	3.1	3.1	-91.02	-1.6	-90.0	90.0	83.7	6.29	14.319	
285.0	285.0	285.0	285.0	3.3	3.3	-91.02	-1.6	-90.0	90.0	83.5	6.48	13.885	
300.0	300.0	300.0	300.0	3.3	3.3	-91.02	-1.6	-90.0	90.0	83.5	6.52	13.801	
380.0	380.0	380.0	380.0	3.4	3.4	-91.02	-1.6	-90.0	90.0	83.3	6.70	13.431	
400.0	400.0	400.0	400.0	3.4	3.4	-91.02	-1.6	-90.0	90.0	83.3	6.75	13.335	
475.0	475.0	475.0	475.0	3.5	3.5	-91.02	-1.6	-90.0	90.0	83.1	6.91	13.020	
500.0	500.0	500.0	500.0	3.5	3.5	-91.02	-1.6	-90.0	90.0	83.0	6.97	12.913	
570.0	570.0	570.0	570.0	3.6	3.6	-91.02	-1.6	-90.0	90.0	82.9	7.12	12.645	
600.0	600.0	600.0	600.0	3.6	3.6	-91.02	-1.6	-90.0	90.0	82.8	7.18	12.529	
665.0	665.0	665.0	665.0	3.7	3.7	-91.02	-1.6	-90.0	90.0	82.7	7.32	12.300	
700.0	700.0	700.0	700.0	3.8	3.8	-91.02	-1.6	-90.0	90.0	82.6	7.39	12.177	
760.0	760.0	760.0	760.0	3.8	3.8	-91.02	-1.6	-90.0	90.0	82.5	7.51	11.983	
800.0	800.0	800.0	800.0	3.9	3.9	-91.02	-1.6	-90.0	90.0	82.4	7.59	11.854	
855.0	855.0	855.0	855.0	4.0	4.0	-91.02	-1.6	-90.0	90.0	82.3	7.70	11.689	
900.0	900.0	900.0	900.0	4.0	4.0	-91.02	-1.6	-90.0	90.0	82.2	7.79	11.554	
950.0	950.0	950.0	950.0	4.1	4.1	-91.02	-1.6	-90.0	90.0	82.1	7.89	11.415	
1,000.0	1,000.0	1,000.0	1,000.0	4.1	4.1	-91.02	-1.6	-90.0	90.0	82.0	7.98	11.277	
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	-91.02	-1.6	-90.0	90.0	81.9	8.07	11.160	
1,100.0	1,100.0	1,100.0	1,100.0	4.2	4.2	-91.02	-1.6	-90.0	90.0	81.8	8.17	11.018	
1,140.0	1,140.0	1,140.0	1,140.0	4.3	4.3	-91.02	-1.6	-90.0	90.0	81.8	8.24	10.921	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-91.02	-1.6	-90.0	90.0	81.7	8.35	10.777	
1,235.0	1,235.0	1,235.0	1,235.0	4.4	4.4	-91.02	-1.6	-90.0	90.0	81.6	8.41	10.697	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-91.02	-1.6	-90.0	90.0	81.5	8.53	10.550	
1,330.0	1,330.0	1,330.0	1,330.0	4.5	4.5	-91.02	-1.6	-90.0	90.0	81.4	8.58	10.486	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-91.02	-1.6	-90.0	90.0	81.3	8.71	10.338	
1,425.0	1,425.0	1,425.0	1,425.0	4.6	4.6	-91.02	-1.6	-90.0	90.0	81.3	8.75	10.287	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-91.02	-1.6	-90.0	90.0	81.1	8.88	10.137 CC, ES	
1,520.0	1,520.0	1,519.4	1,519.4	4.8	4.7	-111.92	-1.6	-90.1	90.1	81.2	8.93	10.085	
1,600.0	1,600.0	1,597.0	1,597.0	4.9	4.8	-112.57	-1.2	-91.6	92.3	83.2	9.16	10.082 SF	
1,615.0	1,615.0	1,611.5	1,611.5	5.0	4.8	-112.78	-1.1	-92.1	93.1	83.8	9.22	10.095	
1,700.0	1,699.8	1,693.6	1,693.4	5.2	5.0	-114.39	0.0	-96.4	99.3	89.7	9.59	10.352	
1,710.0	1,709.8	1,703.2	1,703.0	5.2	5.0	-114.62	0.1	-97.0	100.2	90.6	9.63	10.404	
1,800.0	1,799.5	1,789.4	1,788.9	5.4	5.2	-116.89	1.9	-104.2	111.0	101.0	10.03	11.064	
1,805.0	1,804.4	1,794.2	1,793.7	5.5	5.2	-117.02	2.0	-104.7	111.7	101.7	10.05	11.117	
1,850.0	1,849.1	1,836.9	1,836.2	5.5	5.4	-118.23	3.1	-109.2	118.7	108.5	10.21	11.628	
1,900.0	1,898.8	1,884.2	1,883.1	5.6	5.5	-119.55	4.5	-115.0	127.5	117.1	10.39	12.273	
1,995.0	1,993.0	1,973.4	1,971.2	5.8	5.8	-121.26	7.7	-127.9	146.3	135.5	10.81	13.535	
2,000.0	1,998.0	1,978.0	1,975.8	5.8	5.8	-121.32	7.9	-128.7	147.4	136.6	10.83	13.606	
2,090.0	2,087.3	2,061.5	2,057.9	6.1	6.1	-122.16	11.4	-143.3	167.8	156.6	11.24	14.935	
2,100.0	2,097.3	2,070.7	2,067.0	6.1	6.1	-122.21	11.9	-145.0	170.3	159.0	11.28	15.090	
2,185.0	2,181.6	2,148.5	2,143.0	6.3	6.4	-122.48	15.8	-161.0	191.9	180.2	11.67	16.443	
2,200.0	2,196.5	2,162.1	2,156.2	6.4	6.4	-122.49	16.5	-164.0	195.9	184.2	11.74	16.690	
2,280.0	2,275.9	2,236.5	2,228.5	6.6	6.7	-122.44	20.7	-181.2	218.3	206.2	12.11	18.020	
2,300.0	2,295.8	2,255.7	2,247.1	6.6	6.8	-122.42	21.8	-185.8	223.9	211.7	12.21	18.341	
2,375.0	2,370.2	2,327.7	2,316.9	6.9	7.0	-122.36	25.9	-202.7	245.1	232.5	12.57	19.491	
2,400.0	2,395.0	2,351.7	2,340.2	6.9	7.1	-122.34	27.3	-208.3	252.1	239.4	12.70	19.855	
2,470.0	2,464.5	2,418.8	2,405.4	7.2	7.3	-122.29	31.2	-224.1	271.9	258.8	13.05	20.829	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,500.0	2,494.3	2,447.6	2,433.3	7.3	7.4	-122.27	32.8	-230.9	280.3	267.1	13.21	21.225		
2,565.0	2,558.8	2,510.0	2,493.8	7.5	7.6	-122.23	36.4	-245.5	298.7	285.1	13.55	22.047		
2,600.0	2,593.5	2,543.5	2,526.4	7.6	7.7	-122.21	38.4	-253.4	308.5	294.8	13.73	22.467		
2,660.0	2,653.1	2,601.1	2,582.3	7.8	7.9	-122.19	41.7	-266.9	325.4	311.4	14.05	23.156		
2,700.0	2,692.8	2,639.5	2,619.5	7.9	8.1	-122.17	43.9	-275.9	336.7	322.5	14.27	23.592		
2,755.0	2,747.4	2,692.3	2,670.7	8.1	8.3	-122.15	46.9	-288.4	352.2	337.7	14.58	24.167		
2,800.0	2,792.1	2,735.4	2,712.6	8.3	8.5	-122.13	49.4	-298.5	364.9	350.1	14.83	24.613		
2,850.0	2,841.7	2,783.4	2,759.1	8.4	8.6	-122.11	52.1	-309.8	379.0	363.9	15.11	25.089		
2,900.0	2,891.3	2,831.4	2,805.7	8.6	8.8	-122.10	54.9	-321.0	393.1	377.7	15.39	25.542		
2,945.0	2,936.0	2,874.5	2,847.6	8.8	9.0	-122.08	57.4	-331.2	405.8	390.2	15.65	25.932		
3,000.0	2,990.6	2,927.3	2,898.8	9.0	9.2	-122.07	60.4	-343.6	421.3	405.4	15.97	26.388		
3,040.0	3,030.3	2,965.7	2,936.0	9.1	9.4	-122.06	62.6	-352.6	432.6	416.4	16.20	26.705		
3,100.0	3,089.8	3,023.2	2,991.8	9.3	9.6	-122.04	65.9	-366.1	449.5	433.0	16.55	27.160		
3,135.0	3,124.6	3,056.8	3,024.4	9.4	9.7	-122.03	67.9	-374.0	459.4	442.7	16.76	27.414		
3,200.0	3,189.1	3,119.2	3,084.9	9.7	10.0	-122.02	71.4	-388.7	477.8	460.6	17.14	27.866		
3,230.0	3,218.8	3,148.0	3,112.9	9.8	10.1	-122.01	73.1	-395.5	486.2	468.9	17.32	28.066		
3,300.0	3,288.3	3,215.1	3,178.0	10.0	10.4	-122.00	76.9	-411.2	506.0	488.2	17.74	28.514		
3,325.0	3,313.1	3,239.1	3,201.3	10.1	10.5	-122.00	78.3	-416.9	513.0	495.1	17.90	28.667		
3,400.0	3,387.6	3,311.1	3,271.1	10.4	10.8	-121.98	82.5	-433.8	534.2	515.8	18.35	29.108		
3,420.0	3,407.4	3,330.3	3,289.7	10.5	10.9	-121.98	83.6	-438.3	539.8	521.3	18.47	29.221		
3,500.0	3,486.8	3,407.0	3,364.2	10.8	11.2	-121.97	88.0	-456.3	562.4	543.4	18.96	29.656		
3,515.0	3,501.7	3,421.4	3,378.2	10.9	11.3	-121.96	88.8	-459.7	566.6	547.5	19.06	29.734		
3,600.0	3,586.1	3,502.9	3,457.3	11.2	11.7	-121.95	93.5	-478.9	590.6	571.0	19.58	30.161		
3,610.0	3,596.0	3,512.5	3,466.6	11.2	11.7	-121.95	94.0	-481.1	593.4	573.8	19.64	30.209		
3,700.0	3,685.3	3,598.9	3,550.4	11.6	12.1	-121.94	99.0	-501.4	618.8	598.6	20.20	30.628		
3,705.0	3,690.3	3,603.7	3,555.0	11.6	12.1	-121.94	99.3	-502.6	620.2	600.0	20.23	30.650		
3,800.0	3,784.6	3,694.8	3,643.5	11.9	12.5	-121.93	104.5	-524.0	647.0	626.2	20.83	31.061		
3,895.0	3,878.9	3,786.0	3,731.9	12.3	12.9	-121.92	109.8	-545.4	673.8	652.4	21.43	31.443		
3,900.0	3,883.9	3,790.8	3,736.6	12.3	12.9	-121.92	110.0	-546.5	675.2	653.7	21.46	31.462		
3,990.0	3,973.2	3,877.1	3,820.3	12.7	13.3	-121.91	115.0	-566.8	700.6	678.5	22.03	31.799		
4,000.0	3,983.1	3,886.7	3,829.6	12.7	13.4	-121.91	115.5	-569.1	703.4	681.3	22.09	31.835		
4,085.0	4,067.5	3,968.3	3,908.8	13.0	13.7	-121.90	120.2	-588.2	727.4	704.7	22.64	32.133		
4,100.0	4,082.4	3,982.6	3,922.7	13.1	13.8	-121.90	121.1	-591.6	731.6	708.9	22.73	32.183		
4,180.0	4,161.8	4,059.4	3,997.2	13.4	14.1	-121.89	125.5	-609.7	754.2	730.9	23.24	32.447		
4,198.2	4,179.8	4,076.8	4,014.1	13.5	14.2	-121.89	126.5	-613.8	759.3	735.9	23.36	32.505		
4,200.0	4,181.6	4,078.6	4,015.8	13.5	14.2	-121.89	126.6	-614.2	759.8	736.4	23.37	32.512		
4,275.0	4,256.1	4,150.6	4,085.7	13.8	14.6	-122.04	130.7	-631.1	780.7	756.9	23.85	32.735		
4,300.0	4,281.0	4,174.7	4,109.0	13.9	14.7	-122.07	132.1	-636.7	787.6	763.5	24.01	32.803		
4,370.0	4,350.6	4,242.0	4,174.4	14.2	15.0	-122.13	136.0	-652.6	806.5	782.0	24.45	32.983		
4,400.0	4,380.5	4,271.0	4,202.5	14.3	15.1	-122.14	137.6	-659.4	814.4	789.8	24.64	33.052		
4,465.0	4,445.3	4,333.7	4,263.3	14.5	15.4	-122.13	141.2	-674.1	831.4	806.4	25.05	33.195		
4,500.0	4,480.2	4,367.4	4,296.1	14.6	15.6	-122.10	143.2	-682.1	840.4	815.1	25.26	33.264		
4,560.0	4,540.1	4,425.4	4,352.4	14.8	15.8	-122.04	146.5	-695.7	855.6	829.9	25.63	33.377		
4,600.0	4,580.0	4,464.1	4,389.9	15.0	16.0	-121.97	148.7	-704.8	865.5	839.6	25.88	33.445		
4,655.0	4,635.0	4,517.3	4,441.5	15.1	16.3	-121.87	151.8	-717.3	878.9	852.7	26.21	33.535		
4,700.0	4,679.9	4,560.9	4,483.8	15.3	16.5	-121.76	154.3	-727.5	889.7	863.3	26.48	33.600		
4,750.0	4,729.9	4,609.4	4,530.8	15.4	16.7	-121.62	157.1	-738.9	901.5	874.8	26.77	33.673		
4,800.0	4,779.9	4,657.8	4,577.9	15.6	16.9	-121.46	159.9	-750.3	913.1	886.1	27.07	33.737		
4,845.0	4,824.9	4,701.5	4,620.2	15.7	17.1	-121.31	162.4	-760.6	923.4	896.1	27.31	33.815		
4,898.1	4,878.0	4,753.0	4,670.2	15.7	17.4	-100.22	165.3	-772.7	935.3	907.7	27.59	33.897		
4,900.0	4,879.9	4,754.8	4,672.0	15.7	17.4	-100.21	165.4	-773.1	935.7	908.1	27.60	33.903		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,940.0	4,919.9	4,793.6	4,709.6	15.8	17.5	-99.98	167.7	-782.2	944.6	916.8	27.80	33.978	
5,000.0	4,979.9	4,851.9	4,766.1	15.8	17.8	-99.63	171.0	-795.9	958.0	929.9	28.10	34.087	
5,035.0	5,014.9	4,885.8	4,799.1	15.8	18.0	-99.43	173.0	-803.9	965.8	937.5	28.28	34.149	
5,100.0	5,079.9	4,948.9	4,860.3	15.9	18.3	-99.07	176.6	-818.7	980.4	951.7	28.61	34.262	
5,130.0	5,109.9	4,978.0	4,888.5	15.9	18.4	-98.91	178.3	-825.5	987.1	958.3	28.77	34.312	
5,200.0	5,179.9	5,045.9	4,954.4	15.9	18.7	-98.54	182.2	-841.5	1,002.8	973.7	29.13	34.427	
5,225.0	5,204.9	5,070.2	4,978.0	15.9	18.8	-98.41	183.5	-847.2	1,008.4	979.2	29.26	34.467	
5,300.0	5,279.9	5,143.0	5,048.6	16.0	19.2	-98.03	187.7	-864.3	1,025.3	995.7	29.65	34.584	
5,320.0	5,299.9	5,162.4	5,067.4	16.0	19.3	-97.93	188.8	-868.9	1,029.8	1,000.1	29.75	34.614	
5,400.0	5,379.9	5,240.0	5,142.7	16.0	19.7	-97.54	193.3	-887.1	1,047.9	1,017.8	30.17	34.733	
5,415.0	5,394.9	5,254.5	5,156.8	16.0	19.7	-97.47	194.1	-890.5	1,051.3	1,021.1	30.25	34.755	
5,500.0	5,479.9	5,337.0	5,236.9	16.1	20.1	-97.07	198.9	-909.9	1,070.6	1,039.9	30.70	34.875	
5,510.0	5,489.9	5,346.7	5,246.3	16.1	20.2	-97.02	199.4	-912.2	1,072.9	1,042.1	30.75	34.888	
5,600.0	5,579.9	5,434.0	5,331.0	16.2	20.6	-96.62	204.5	-932.7	1,093.3	1,062.1	31.23	35.010	
5,605.0	5,584.9	5,438.9	5,335.7	16.2	20.6	-96.60	204.7	-933.9	1,094.5	1,063.2	31.26	35.016	
5,700.0	5,679.9	5,531.1	5,425.2	16.2	21.0	-96.19	210.0	-955.5	1,116.1	1,084.4	31.76	35.138	
5,795.0	5,774.9	5,623.2	5,514.6	16.3	21.5	-95.80	215.3	-977.2	1,137.8	1,105.5	32.27	35.255	
5,800.0	5,779.9	5,628.1	5,519.3	16.3	21.5	-95.78	215.6	-978.3	1,139.0	1,106.7	32.30	35.261	
5,890.0	5,869.9	5,715.4	5,604.0	16.3	21.9	-95.42	220.6	-998.8	1,159.6	1,126.8	32.79	35.366	
5,900.0	5,879.9	5,725.1	5,613.5	16.3	22.0	-95.38	221.2	-1,001.1	1,161.9	1,129.0	32.84	35.377	
5,985.0	5,964.9	5,807.6	5,693.5	16.4	22.4	-95.05	225.9	-1,020.5	1,181.4	1,148.1	33.30	35.473	
6,000.0	5,979.9	5,822.2	5,707.6	16.4	22.4	-95.00	226.8	-1,023.9	1,184.8	1,151.4	33.39	35.489	
6,080.0	6,059.9	5,899.8	5,782.9	16.5	22.8	-94.70	231.2	-1,042.2	1,203.2	1,169.4	33.82	35.575	
6,100.0	6,079.9	5,919.2	5,801.7	16.5	22.9	-94.63	232.3	-1,046.7	1,207.8	1,173.9	33.93	35.596	
6,175.0	6,154.9	5,992.0	5,872.4	16.5	23.2	-94.36	236.5	-1,063.8	1,225.1	1,190.8	34.34	35.673	
6,200.0	6,179.9	6,016.2	5,895.9	16.5	23.4	-94.28	237.9	-1,069.5	1,230.9	1,196.4	34.48	35.698	
6,270.0	6,249.9	6,084.1	5,961.8	16.6	23.7	-94.04	241.8	-1,085.5	1,247.0	1,212.2	34.87	35.767	
6,300.0	6,279.9	6,113.2	5,990.0	16.6	23.8	-93.93	243.5	-1,092.3	1,254.0	1,218.9	35.03	35.796	
6,365.0	6,344.9	6,176.3	6,051.2	16.6	24.1	-93.72	247.1	-1,107.2	1,269.0	1,233.6	35.39	35.858	
6,400.0	6,379.9	6,210.3	6,084.2	16.7	24.3	-93.61	249.1	-1,115.1	1,277.1	1,241.5	35.58	35.890	
6,460.0	6,439.9	6,268.5	6,140.7	16.7	24.6	-93.41	252.4	-1,128.8	1,291.0	1,255.1	35.92	35.944	
6,500.0	6,479.9	6,307.3	6,178.3	16.7	24.8	-93.29	254.6	-1,138.0	1,300.3	1,264.1	36.14	35.980	
6,555.0	6,534.9	6,360.7	6,230.1	16.7	25.0	-93.12	257.7	-1,150.5	1,313.0	1,276.6	36.45	36.028	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-12.23	149.5	-32.4	153.0					
95.0	95.0	91.1	91.1	3.0	3.0	-12.23	149.5	-32.4	153.0	146.9	6.03	25.348		
100.0	100.0	96.1	96.1	3.0	3.0	-12.23	149.5	-32.4	153.0	146.9	6.04	25.327		
190.0	190.0	186.1	186.1	3.1	3.1	-12.23	149.5	-32.4	153.0	146.7	6.25	24.469		
200.0	200.0	196.1	196.1	3.1	3.1	-12.23	149.5	-32.4	153.0	146.7	6.29	24.335		
285.0	285.0	281.1	281.1	3.3	3.2	-12.23	149.5	-32.4	153.0	146.5	6.50	23.551		
300.0	300.0	296.1	296.1	3.3	3.3	-12.23	149.5	-32.4	153.0	146.4	6.54	23.401		
380.0	380.0	376.1	376.1	3.4	3.4	-12.23	149.5	-32.4	153.0	146.2	6.73	22.723		
400.0	400.0	396.1	396.1	3.4	3.4	-12.23	149.5	-32.4	153.0	146.2	6.78	22.547		
475.0	475.0	471.1	471.1	3.5	3.5	-12.23	149.5	-32.4	153.0	146.0	6.97	21.959		
500.0	500.0	496.1	496.1	3.5	3.5	-12.23	149.5	-32.4	153.0	145.9	7.03	21.760		
570.0	570.0	566.1	566.1	3.6	3.6	-12.23	149.5	-32.4	153.0	145.8	7.20	21.250		
600.0	600.0	596.1	596.1	3.6	3.6	-12.23	149.5	-32.4	153.0	145.7	7.27	21.031		
665.0	665.0	661.1	661.1	3.7	3.7	-12.23	149.5	-32.4	153.0	145.5	7.43	20.589		
700.0	700.0	696.1	696.1	3.8	3.8	-12.23	149.5	-32.4	153.0	145.5	7.52	20.353		
760.0	760.0	756.1	756.1	3.8	3.8	-12.23	149.5	-32.4	153.0	145.3	7.66	19.973		
800.0	800.0	796.1	796.1	3.9	3.9	-12.23	149.5	-32.4	153.0	145.2	7.76	19.721		
855.0	855.0	851.1	851.1	4.0	3.9	-12.23	149.5	-32.4	153.0	145.1	7.89	19.395		
900.0	900.0	896.1	896.1	4.0	4.0	-12.23	149.5	-32.4	153.0	145.0	8.00	19.130		
950.0	950.0	946.1	946.1	4.1	4.1	-12.23	149.5	-32.4	153.0	144.9	8.11	18.852		
1,000.0	1,000.0	996.1	996.1	4.1	4.1	-12.23	149.5	-32.4	153.0	144.7	8.23	18.577		
1,045.0	1,045.0	1,041.1	1,041.1	4.2	4.2	-12.23	149.5	-32.4	153.0	144.6	8.34	18.341		
1,100.0	1,100.0	1,096.1	1,096.1	4.2	4.2	-12.23	149.5	-32.4	153.0	144.5	8.47	18.057		
1,140.0	1,140.0	1,136.1	1,136.1	4.3	4.3	-12.23	149.5	-32.4	153.0	144.4	8.57	17.859		
1,200.0	1,200.0	1,196.1	1,196.1	4.4	4.4	-12.23	149.5	-32.4	153.0	144.3	8.71	17.567		
1,235.0	1,235.0	1,231.1	1,231.1	4.4	4.4	-12.23	149.5	-32.4	153.0	144.2	8.79	17.403		
1,300.0	1,300.0	1,296.1	1,296.1	4.5	4.5	-12.23	149.5	-32.4	153.0	144.0	8.94	17.104		
1,330.0	1,330.0	1,326.1	1,326.1	4.5	4.5	-12.23	149.5	-32.4	153.0	144.0	9.01	16.972		
1,400.0	1,400.0	1,396.1	1,396.1	4.6	4.6	-12.23	149.5	-32.4	153.0	143.8	9.18	16.667		
1,425.0	1,425.0	1,421.1	1,421.1	4.6	4.6	-12.23	149.5	-32.4	153.0	143.7	9.24	16.562		
1,500.0	1,500.0	1,496.1	1,496.1	4.7	4.7	-12.23	149.5	-32.4	153.0	143.6	9.41	16.253		
1,520.0	1,520.0	1,515.7	1,515.7	4.8	4.7	-33.11	149.5	-32.4	152.9	143.5	9.47	16.143		
1,600.0	1,600.0	1,593.8	1,593.8	4.9	4.9	-32.95	150.5	-31.2	152.2	142.5	9.70	15.697		
1,615.0	1,615.0	1,608.5	1,608.4	5.0	4.9	-32.89	150.8	-30.8	152.0	142.2	9.75	15.583		
1,700.0	1,699.8	1,691.4	1,691.3	5.2	5.1	-32.38	153.5	-27.4	150.1	140.0	10.10	14.863		
1,710.0	1,709.8	1,700.0	1,699.8	5.2	5.1	-32.31	153.9	-27.0	149.8	139.7	10.14	14.780		
1,800.0	1,799.5	1,788.9	1,788.4	5.4	5.3	-31.37	158.7	-21.1	146.7	136.1	10.53	13.933		
1,805.0	1,804.4	1,793.8	1,793.3	5.5	5.3	-31.31	159.0	-20.7	146.5	135.9	10.54	13.893		
1,850.0	1,849.1	1,837.6	1,836.8	5.5	5.5	-30.68	162.1	-17.0	144.5	133.8	10.68	13.522		
1,900.0	1,898.8	1,886.3	1,885.1	5.6	5.6	-29.75	165.9	-12.2	142.3	131.5	10.85	13.123		
1,995.0	1,993.0	1,978.6	1,976.4	5.8	5.9	-27.11	174.7	-1.5	139.7	128.4	11.27	12.392		
2,000.0	1,998.0	1,983.5	1,981.2	5.8	5.9	-26.94	175.2	-0.9	139.6	128.3	11.30	12.359		
2,063.6	2,061.2	2,045.1	2,041.9	6.0	6.1	-24.54	182.2	7.7	139.1	127.5	11.62	11.972 CC		
2,090.0	2,087.3	2,070.6	2,066.9	6.1	6.2	-23.41	185.3	11.5	139.2	127.4	11.76	11.839 ES		
2,100.0	2,097.3	2,080.3	2,076.3	6.1	6.2	-22.97	186.5	13.0	139.3	127.5	11.81	11.792		
2,185.0	2,181.6	2,162.0	2,156.2	6.3	6.5	-18.83	197.6	26.6	141.3	129.0	12.30	11.484		
2,200.0	2,196.5	2,176.4	2,170.1	6.4	6.6	-18.05	199.7	29.2	141.9	129.5	12.39	11.449		
2,280.0	2,275.9	2,254.7	2,246.1	6.6	6.8	-13.68	211.7	43.8	146.1	133.2	12.90	11.324		
2,300.0	2,295.8	2,274.5	2,265.3	6.6	6.9	-12.62	214.7	47.5	147.3	134.3	13.04	11.303		
2,375.0	2,370.2	2,348.6	2,337.3	6.9	7.1	-8.77	226.0	61.4	152.3	138.8	13.54	11.249		
2,400.0	2,395.0	2,373.3	2,361.3	6.9	7.2	-7.55	229.8	66.0	154.1	140.4	13.71	11.240		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,470.0	2,464.5	2,442.6	2,428.4	7.2	7.4	-4.27	240.4	79.0	159.6	145.4	14.21	11.234		
2,500.0	2,494.3	2,472.2	2,457.2	7.3	7.5	-2.93	244.9	84.6	162.1	147.7	14.42	11.240		
2,565.0	2,558.8	2,536.5	2,519.5	7.5	7.8	-0.18	254.7	96.6	167.7	152.9	14.89	11.267		
2,600.0	2,593.5	2,571.1	2,553.1	7.6	7.9	1.23	260.0	103.1	171.0	155.8	15.14	11.290		
2,660.0	2,653.1	2,630.4	2,610.7	7.8	8.1	3.53	269.1	114.2	176.7	161.1	15.58	11.339		
2,700.0	2,692.8	2,669.9	2,649.0	7.9	8.3	4.98	275.2	121.6	180.7	164.8	15.88	11.379		
2,755.0	2,747.4	2,724.3	2,701.8	8.1	8.5	6.87	283.5	131.8	186.3	170.0	16.28	11.441		
2,800.0	2,792.1	2,768.8	2,745.0	8.3	8.6	8.33	290.3	140.2	191.0	174.4	16.62	11.497		
2,850.0	2,841.7	2,818.2	2,792.9	8.4	8.8	9.87	297.8	149.4	196.5	179.5	16.99	11.565		
2,900.0	2,891.3	2,867.7	2,840.9	8.6	9.0	11.33	305.4	158.7	202.0	184.7	17.36	11.637		
2,945.0	2,936.0	2,912.1	2,884.0	8.8	9.2	12.58	312.2	167.0	207.1	189.4	17.70	11.705		
3,000.0	2,990.6	2,966.5	2,936.8	9.0	9.4	14.02	320.5	177.2	213.5	195.4	18.11	11.792		
3,040.0	3,030.3	3,006.1	2,975.2	9.1	9.6	15.02	326.6	184.7	218.2	199.8	18.40	11.857		
3,100.0	3,089.8	3,065.4	3,032.7	9.3	9.8	16.44	335.6	195.8	225.4	206.6	18.85	11.956		
3,135.0	3,124.6	3,100.0	3,066.3	9.4	10.0	17.22	340.9	202.3	229.7	210.5	19.11	12.016		
3,200.0	3,189.1	3,164.2	3,128.6	9.7	10.2	18.60	350.8	214.3	237.7	218.1	19.60	12.127		
3,230.0	3,218.8	3,193.9	3,157.4	9.8	10.4	19.21	355.3	219.9	241.4	221.6	19.82	12.179		
3,300.0	3,288.3	3,263.1	3,224.6	10.0	10.7	20.56	365.9	232.8	250.2	229.9	20.34	12.301		
3,325.0	3,313.1	3,287.8	3,248.6	10.1	10.8	21.02	369.6	237.5	253.4	232.9	20.53	12.345		
3,400.0	3,387.6	3,362.0	3,320.5	10.4	11.1	22.33	381.0	251.4	263.0	242.0	21.08	12.476		
3,420.0	3,407.4	3,381.7	3,339.7	10.5	11.2	22.66	384.0	255.1	265.6	244.4	21.23	12.511		
3,500.0	3,486.8	3,460.8	3,416.4	10.8	11.5	23.93	396.1	269.9	276.1	254.3	21.83	12.650		
3,515.0	3,501.7	3,475.7	3,430.8	10.9	11.6	24.16	398.4	272.7	278.1	256.1	21.94	12.676		
3,600.0	3,586.1	3,559.7	3,512.3	11.2	11.9	25.39	411.2	288.4	289.3	266.8	22.57	12.822		
3,610.0	3,596.0	3,569.6	3,521.9	11.2	12.0	25.53	412.7	290.3	290.7	268.0	22.64	12.839		
3,700.0	3,685.3	3,658.5	3,608.3	11.6	12.4	26.72	426.3	307.0	302.7	279.4	23.30	12.990		
3,705.0	3,690.3	3,663.5	3,613.1	11.6	12.4	26.78	427.1	307.9	303.4	280.1	23.34	12.999		
3,800.0	3,784.6	3,757.4	3,704.2	11.9	12.8	27.94	441.5	325.5	316.3	292.2	24.04	13.155		
3,895.0	3,878.9	3,851.3	3,795.3	12.3	13.2	29.00	455.8	343.1	329.3	304.5	24.74	13.308		
3,900.0	3,883.9	3,856.3	3,800.1	12.3	13.3	29.06	456.6	344.0	330.0	305.2	24.78	13.316		
3,990.0	3,973.2	3,945.2	3,886.5	12.7	13.7	29.99	470.2	360.7	342.4	316.9	25.44	13.457		
4,000.0	3,983.1	3,955.1	3,896.0	12.7	13.7	30.08	471.7	362.6	343.8	318.3	25.52	13.473		
4,085.0	4,067.5	4,039.2	3,977.6	13.0	14.1	30.90	484.6	378.3	355.6	329.4	26.14	13.602		
4,100.0	4,082.4	4,054.0	3,992.0	13.1	14.2	31.03	486.8	381.1	357.7	331.4	26.25	13.625		
4,180.0	4,161.8	4,133.1	4,068.7	13.4	14.5	31.74	498.9	395.9	368.9	342.0	26.84	13.744		
4,198.2	4,179.8	4,151.1	4,086.2	13.5	14.6	31.90	501.7	399.3	371.4	344.4	26.97	13.770		
4,200.0	4,181.6	4,152.9	4,087.9	13.5	14.6	31.91	501.9	399.6	371.7	344.7	26.98	13.773		
4,275.0	4,256.1	4,227.0	4,159.8	13.8	14.9	32.55	513.3	413.5	382.6	355.1	27.53	13.897		
4,300.0	4,281.0	4,251.6	4,183.7	13.9	15.1	32.73	517.0	418.2	386.5	358.8	27.72	13.943		
4,370.0	4,350.6	4,320.7	4,250.7	14.2	15.4	33.20	527.6	431.1	397.8	369.5	28.23	14.088		
4,400.0	4,380.5	4,350.2	4,279.4	14.3	15.5	33.37	532.1	436.6	402.8	374.3	28.46	14.155		
4,465.0	4,445.3	4,414.2	4,341.5	14.5	15.8	33.70	541.9	448.6	414.2	385.3	28.93	14.316		
4,500.0	4,480.2	4,448.6	4,374.8	14.6	16.0	33.85	547.2	455.1	420.6	391.4	29.19	14.407		
4,560.0	4,540.1	4,507.5	4,432.0	14.8	16.2	34.06	556.2	466.1	431.9	402.3	29.63	14.578		
4,600.0	4,580.0	4,548.4	4,471.7	15.0	16.4	34.17	562.4	473.8	439.8	409.9	29.93	14.694		
4,655.0	4,635.0	4,612.3	4,533.9	15.1	16.7	34.30	571.6	485.0	450.2	419.8	30.40	14.807		
4,700.0	4,679.9	4,664.9	4,585.4	15.3	17.0	34.38	578.5	493.5	458.1	427.3	30.80	14.874		
4,750.0	4,729.9	4,723.7	4,643.1	15.4	17.2	34.45	585.5	502.1	466.2	435.0	31.21	14.940		
4,800.0	4,779.9	4,782.8	4,701.4	15.6	17.5	34.48	591.8	509.8	473.7	442.1	31.61	14.989		
4,845.0	4,824.9	4,836.3	4,754.2	15.7	17.7	34.49	596.8	515.9	479.9	448.0	31.90	15.042		
4,898.1	4,878.0	4,899.6	4,817.1	15.7	18.0	55.34	602.0	522.2	486.5	454.3	32.24	15.089		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,900.0	4,879.9	4,901.9	4,819.3	15.7	18.0	55.34	602.1	522.5	486.7	454.5	32.25	15.091	
4,940.0	4,919.9	4,949.8	4,866.9	15.8	18.2	55.29	605.4	526.5	491.1	458.6	32.46	15.130	
5,000.0	4,979.9	5,021.9	4,938.8	15.8	18.5	55.24	609.4	531.4	496.3	463.6	32.74	15.160	
5,035.0	5,014.9	5,064.2	4,981.0	15.8	18.7	55.21	611.2	533.6	498.7	465.8	32.88	15.165	
5,100.0	5,079.9	5,142.8	5,059.5	15.9	19.0	55.18	613.5	536.4	501.7	468.6	33.11	15.153	
5,130.0	5,109.9	5,179.1	5,095.8	15.9	19.1	55.17	614.2	537.2	502.5	469.3	33.20	15.137	
5,200.0	5,179.9	5,259.3	5,176.0	15.9	19.2	55.16	614.5	537.7	503.0	469.7	33.27	15.116	
5,225.0	5,204.9	5,284.3	5,201.0	15.9	19.2	55.16	614.5	537.7	503.0	469.7	33.30	15.106	
5,300.0	5,279.9	5,359.3	5,276.0	16.0	19.2	55.16	614.5	537.7	503.0	469.6	33.38	15.069	
5,320.0	5,299.9	5,379.3	5,296.0	16.0	19.2	55.16	614.5	537.7	503.0	469.6	33.40	15.059	
5,400.0	5,379.9	5,459.3	5,376.0	16.0	19.3	55.16	614.5	537.7	503.0	469.5	33.49	15.018	
5,415.0	5,394.9	5,474.3	5,391.0	16.0	19.3	55.16	614.5	537.7	503.0	469.5	33.51	15.011	
5,500.0	5,479.9	5,559.3	5,476.0	16.1	19.3	55.16	614.5	537.7	503.0	469.4	33.60	14.968	
5,510.0	5,489.9	5,569.3	5,486.0	16.1	19.3	55.16	614.5	537.7	503.0	469.4	33.62	14.963	
5,600.0	5,579.9	5,659.3	5,576.0	16.2	19.4	55.16	614.5	537.7	503.0	469.3	33.72	14.918	
5,605.0	5,584.9	5,664.3	5,581.0	16.2	19.4	55.16	614.5	537.7	503.0	469.3	33.72	14.915	
5,700.0	5,679.9	5,759.3	5,676.0	16.2	19.4	55.16	614.5	537.7	503.0	469.2	33.83	14.868	
5,795.0	5,774.9	5,854.3	5,771.0	16.3	19.5	55.16	614.5	537.7	503.0	469.1	33.94	14.820	
5,800.0	5,779.9	5,859.3	5,776.0	16.3	19.5	55.16	614.5	537.7	503.0	469.1	33.95	14.818	
5,890.0	5,869.9	5,949.3	5,866.0	16.3	19.5	55.16	614.5	537.7	503.0	468.9	34.05	14.773	
5,900.0	5,879.9	5,959.3	5,876.0	16.3	19.5	55.16	614.5	537.7	503.0	468.9	34.06	14.768	
5,985.0	5,964.9	6,044.3	5,961.0	16.4	19.6	55.16	614.5	537.7	503.0	468.8	34.16	14.726	
6,000.0	5,979.9	6,059.3	5,976.0	16.4	19.6	55.16	614.5	537.7	503.0	468.8	34.17	14.719	
6,080.0	6,059.9	6,139.3	6,056.0	16.5	19.6	55.16	614.5	537.7	503.0	468.7	34.27	14.679	
6,100.0	6,079.9	6,159.3	6,076.0	16.5	19.6	55.16	614.5	537.7	503.0	468.7	34.29	14.669	
6,175.0	6,154.9	6,234.3	6,151.0	16.5	19.6	55.16	614.5	537.7	503.0	468.6	34.38	14.632	
6,200.0	6,179.9	6,259.3	6,176.0	16.5	19.7	55.16	614.5	537.7	503.0	468.6	34.40	14.620	
6,270.0	6,249.9	6,329.3	6,246.0	16.6	19.7	55.16	614.5	537.7	503.0	468.5	34.49	14.586	
6,300.0	6,279.9	6,359.3	6,276.0	16.6	19.7	55.16	614.5	537.7	503.0	468.5	34.52	14.571	
6,365.0	6,344.9	6,424.3	6,341.0	16.6	19.7	55.16	614.5	537.7	503.0	468.4	34.60	14.539	
6,400.0	6,379.9	6,459.3	6,376.0	16.7	19.8	55.16	614.5	537.7	503.0	468.4	34.64	14.522	
6,460.0	6,439.9	6,519.3	6,436.0	16.7	19.8	55.16	614.5	537.7	503.0	468.3	34.71	14.493	
6,500.0	6,479.9	6,559.3	6,476.0	16.7	19.8	55.16	614.5	537.7	503.0	468.2	34.75	14.473	
6,555.0	6,534.9	6,614.3	6,531.0	16.7	19.8	55.16	614.5	537.7	503.0	468.2	34.82	14.447	
6,600.0	6,579.9	6,659.3	6,576.0	16.8	19.9	55.16	614.5	537.7	503.0	468.1	34.87	14.425	
6,650.0	6,629.9	6,709.3	6,626.0	16.8	19.9	55.16	614.5	537.7	503.0	468.1	34.93	14.401	
6,700.0	6,679.9	6,759.3	6,676.0	16.8	19.9	55.16	614.5	537.7	503.0	468.0	34.99	14.377	
6,745.0	6,724.9	6,804.3	6,721.0	16.9	19.9	55.16	614.5	537.7	503.0	468.0	35.04	14.355	
6,800.0	6,779.9	6,859.3	6,776.0	16.9	20.0	55.16	614.5	537.7	503.0	467.9	35.10	14.329	
6,840.0	6,819.9	6,899.3	6,816.0	16.9	20.0	55.16	614.5	537.7	503.0	467.8	35.15	14.309	
6,900.0	6,879.9	6,959.3	6,876.0	17.0	20.0	55.16	614.5	537.7	503.0	467.8	35.22	14.281	
6,935.0	6,914.9	6,994.3	6,911.0	17.0	20.0	55.16	614.5	537.7	503.0	467.7	35.26	14.264	
7,000.0	6,979.9	7,059.3	6,976.0	17.0	20.1	55.16	614.5	537.7	503.0	467.7	35.34	14.233	
7,030.0	7,009.9	7,089.3	7,006.0	17.0	20.1	55.16	614.5	537.7	503.0	467.6	35.38	14.219	
7,100.0	7,079.9	7,159.3	7,076.0	17.1	20.1	55.16	614.5	537.7	503.0	467.5	35.46	14.185	
7,125.0	7,104.9	7,184.3	7,101.0	17.1	20.1	55.16	614.5	537.7	503.0	467.5	35.49	14.173	
7,200.0	7,179.9	7,259.3	7,176.0	17.2	20.2	55.16	614.5	537.7	503.0	467.4	35.58	14.138	
7,220.0	7,199.9	7,279.3	7,196.0	17.2	20.2	55.16	614.5	537.7	503.0	467.4	35.60	14.128	
7,300.0	7,279.9	7,359.3	7,276.0	17.2	20.2	55.16	614.5	537.7	503.0	467.3	35.70	14.091	
7,315.0	7,294.9	7,374.3	7,291.0	17.2	20.2	55.16	614.5	537.7	503.0	467.3	35.72	14.084	
7,400.0	7,379.9	7,459.3	7,376.0	17.3	20.3	55.16	614.5	537.7	503.0	467.2	35.82	14.044	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
7,410.0	7,389.9	7,469.3	7,386.0	17.3	20.3	55.16	614.5	537.7	503.0	467.2	35.83	14.039	
7,500.0	7,479.9	7,559.3	7,476.0	17.3	20.3	55.16	614.5	537.7	503.0	467.1	35.94	13.997	
7,505.0	7,484.9	7,564.3	7,481.0	17.3	20.3	55.16	614.5	537.7	503.0	467.1	35.94	13.994	
7,600.0	7,579.9	7,659.3	7,576.0	17.4	20.4	55.16	614.5	537.7	503.0	466.9	36.06	13.950	
7,695.0	7,674.9	7,754.3	7,671.0	17.5	20.4	55.16	614.5	537.7	503.0	466.8	36.17	13.906	
7,700.0	7,679.9	7,759.3	7,676.0	17.5	20.4	55.16	614.5	537.7	503.0	466.8	36.18	13.904	
7,790.0	7,769.9	7,849.3	7,766.0	17.5	20.5	55.16	614.5	537.7	503.0	466.7	36.29	13.862	
7,800.0	7,779.9	7,859.3	7,776.0	17.5	20.5	55.16	614.5	537.7	503.0	466.7	36.30	13.857	
7,885.0	7,864.9	7,944.3	7,861.0	17.6	20.5	55.16	614.5	537.7	503.0	466.6	36.40	13.818	
7,900.0	7,879.9	7,959.3	7,876.0	17.6	20.5	55.16	614.5	537.7	503.0	466.6	36.42	13.811	
7,980.0	7,959.9	8,039.3	7,956.0	17.7	20.6	55.16	614.5	537.7	503.0	466.5	36.52	13.775	
8,000.0	7,979.9	8,059.3	7,976.0	17.7	20.6	55.16	614.5	537.7	503.0	466.5	36.54	13.765	
8,075.0	8,054.9	8,134.3	8,051.0	17.7	20.6	55.16	614.5	537.7	503.0	466.4	36.63	13.731	
8,100.0	8,079.9	8,159.3	8,076.0	17.7	20.6	55.16	614.5	537.7	503.0	466.3	36.66	13.720	
8,170.0	8,149.9	8,229.3	8,146.0	17.8	20.7	55.16	614.5	537.7	503.0	466.2	36.75	13.688	
8,200.0	8,179.9	8,259.3	8,176.0	17.8	20.7	55.16	614.5	537.7	503.0	466.2	36.78	13.674	
8,265.0	8,244.9	8,324.3	8,241.0	17.8	20.7	55.16	614.5	537.7	503.0	466.1	36.86	13.645	
8,300.0	8,279.9	8,359.3	8,276.0	17.9	20.7	55.16	614.5	537.7	503.0	466.1	36.91	13.629	
8,360.0	8,339.9	8,419.3	8,336.0	17.9	20.7	55.16	614.5	537.7	503.0	466.0	36.98	13.602	
8,400.0	8,379.9	8,459.3	8,376.0	17.9	20.8	55.16	614.5	537.7	503.0	466.0	37.03	13.584	
8,429.2	8,409.0	8,488.5	8,405.1	17.9	20.8	55.16	614.5	537.7	503.0	465.9	37.05	13.574	
8,450.0	8,429.9	8,509.3	8,426.0	17.9	20.8	-125.33	614.5	537.7	503.2	466.1	37.08	13.572	
8,455.0	8,434.9	8,514.3	8,431.0	18.0	20.8	-125.34	614.5	537.7	503.3	466.2	37.08	13.573	
8,500.0	8,479.7	8,559.1	8,475.8	18.0	20.8	-125.51	614.5	537.7	505.5	468.4	37.17	13.600	
8,550.0	8,529.0	8,608.4	8,525.1	18.1	20.8	-125.86	614.5	537.7	510.4	473.1	37.31	13.682	
8,600.0	8,577.4	8,656.8	8,573.5	18.1	20.9	-126.35	614.5	537.7	518.0	480.5	37.47	13.823	
8,645.0	8,619.8	8,699.2	8,615.9	18.2	20.9	-126.86	614.5	537.7	527.2	489.6	37.65	14.005	
8,650.0	8,624.5	8,703.9	8,620.6	18.2	20.9	-126.91	614.5	537.7	528.4	490.7	37.67	14.029	
8,700.0	8,669.9	8,749.3	8,666.0	18.3	20.9	-127.48	614.5	537.7	541.7	503.9	37.87	14.304	
8,740.0	8,704.9	8,784.3	8,701.0	18.3	20.9	-127.89	614.5	537.7	554.6	516.6	38.04	14.579	
8,750.0	8,713.4	8,792.8	8,709.5	18.3	20.9	-127.98	614.5	537.7	558.2	520.1	38.08	14.656	
8,800.0	8,754.5	8,834.0	8,750.6	18.4	21.0	-128.32	614.5	537.7	577.8	539.5	38.29	15.090	
8,835.0	8,781.8	8,861.2	8,777.9	18.5	21.0	-128.41	614.5	537.7	593.4	555.0	38.42	15.444	
8,850.0	8,793.1	8,872.5	8,789.2	18.5	21.0	-128.41	614.5	537.7	600.6	562.1	38.48	15.609	
8,900.0	8,828.7	8,908.1	8,824.8	18.6	21.0	-128.15	614.5	537.7	626.7	588.0	38.64	16.217	
8,930.0	8,848.5	8,927.9	8,844.6	18.6	21.0	-127.79	614.5	537.7	643.9	605.1	38.73	16.624	
8,950.0	8,861.1	8,940.5	8,857.2	18.6	21.0	-127.45	614.5	537.7	655.9	617.1	38.78	16.912	
9,000.0	8,890.0	8,969.5	8,886.1	18.7	21.0	-126.18	614.5	537.7	688.2	649.3	38.89	17.693	
9,025.0	8,903.1	8,982.6	8,899.2	18.7	21.0	-125.28	614.5	537.7	705.4	666.4	38.94	18.114	
9,050.0	8,915.3	8,994.8	8,911.4	18.7	21.1	-124.18	614.5	537.7	723.2	684.2	38.98	18.555	
9,100.0	8,936.8	9,016.2	8,932.9	18.8	21.1	-121.29	614.5	537.7	760.8	721.8	39.03	19.492	
9,120.0	8,944.2	9,023.7	8,940.3	18.8	21.1	-119.82	614.5	537.7	776.5	737.5	39.05	19.887	
9,150.0	8,954.2	9,033.6	8,950.3	18.8	21.1	-117.26	614.5	537.7	800.7	761.6	39.06	20.498	
9,200.0	8,967.5	9,046.9	8,963.6	18.9	21.1	-111.83	614.5	537.7	842.4	803.3	39.07	21.562	
9,215.0	8,970.7	9,050.1	8,966.8	18.9	21.1	-109.89	614.5	537.7	855.2	816.2	39.07	21.892	
9,250.0	8,976.5	9,056.0	8,972.6	18.9	21.1	-104.75	614.5	537.7	885.6	846.6	39.05	22.677	
9,300.0	8,981.3	9,060.7	8,977.4	18.9	21.1	-95.90	614.5	537.7	930.0	891.0	39.02	23.832	
9,310.0	8,981.7	9,061.1	8,977.8	18.9	21.1	-93.93	614.5	537.7	939.0	900.0	39.02	24.067	
9,328.9	8,982.0	9,061.4	8,978.1	18.9	21.1	-90.06	614.5	537.7	956.0	917.0	39.00	24.513	
9,400.0	8,982.0	10,581.2	9,806.1	18.9	22.5	-149.65	-320.3	604.3	959.5	924.2	35.29	27.193	
9,405.0	8,982.0	10,586.2	9,806.1	18.9	22.5	-149.65	-325.3	604.3	959.5	924.2	35.31	27.174	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
9,500.0	8,982.1	10,681.2	9,806.2	19.0	22.6	-149.65	-420.3	603.5	959.5	923.7	35.81	26.795	
9,595.0	8,982.1	10,776.2	9,806.2	19.0	22.8	-149.65	-515.3	602.7	959.5	923.2	36.36	26.386	
9,600.0	8,982.1	10,781.2	9,806.2	19.0	22.8	-149.65	-520.3	602.7	959.5	923.1	36.39	26.365	
9,690.0	8,982.2	10,871.2	9,806.3	19.1	23.0	-149.65	-610.3	601.9	959.5	922.5	36.97	25.954	
9,700.0	8,982.2	10,881.2	9,806.3	19.1	23.0	-149.65	-620.3	601.9	959.5	922.5	37.03	25.909	
9,785.0	8,982.2	10,966.2	9,806.3	19.1	23.2	-149.65	-705.3	601.2	959.5	921.9	37.62	25.502	
9,800.0	8,982.2	10,981.2	9,806.3	19.1	23.2	-149.65	-720.3	601.0	959.5	921.8	37.73	25.432	
9,880.0	8,982.3	11,061.2	9,806.3	19.2	23.4	-149.65	-800.3	600.4	959.5	921.2	38.32	25.036	
9,900.0	8,982.3	11,081.2	9,806.3	19.2	23.5	-149.65	-820.2	600.2	959.5	921.0	38.47	24.939	
9,975.0	8,982.3	11,156.2	9,806.4	19.2	23.7	-149.65	-895.2	599.6	959.5	920.4	39.07	24.559	
10,000.0	8,982.3	11,181.2	9,806.4	19.3	23.7	-149.65	-920.2	599.4	959.5	920.2	39.27	24.434	
10,070.0	8,982.3	11,251.2	9,806.4	19.3	23.9	-149.65	-990.2	598.8	959.5	919.6	39.85	24.075	
10,100.0	8,982.4	11,281.2	9,806.4	19.4	24.0	-149.65	-1,020.2	598.5	959.5	919.4	40.11	23.923	
10,165.0	8,982.4	11,346.2	9,806.4	19.4	24.2	-149.65	-1,085.2	598.0	959.5	918.8	40.68	23.587	
10,200.0	8,982.4	11,381.2	9,806.5	19.5	24.3	-149.65	-1,120.2	597.7	959.5	918.5	40.99	23.409	
10,260.0	8,982.4	11,441.2	9,806.5	19.6	24.5	-149.65	-1,180.2	597.2	959.5	917.9	41.54	23.098	
10,300.0	8,982.5	11,481.2	9,806.5	19.6	24.6	-149.65	-1,220.2	596.9	959.5	917.6	41.91	22.894	
10,355.0	8,982.5	11,536.2	9,806.5	19.7	24.8	-149.65	-1,275.2	596.4	959.5	917.0	42.43	22.611	
10,400.0	8,982.5	11,581.2	9,806.5	19.8	24.9	-149.65	-1,320.2	596.1	959.5	916.6	42.87	22.383	
10,450.0	8,982.5	11,631.2	9,806.6	19.9	25.1	-149.65	-1,370.2	595.7	959.5	916.1	43.36	22.127	
10,500.0	8,982.5	11,681.2	9,806.6	20.0	25.3	-149.65	-1,420.2	595.2	959.5	915.6	43.86	21.876	
10,545.0	8,982.6	11,726.2	9,806.6	20.1	25.5	-149.65	-1,465.2	594.9	959.5	915.1	44.32	21.649	
10,600.0	8,982.6	11,781.2	9,806.6	20.2	25.7	-149.65	-1,520.2	594.4	959.4	914.6	44.88	21.376	
10,640.0	8,982.6	11,821.2	9,806.6	20.3	25.8	-149.65	-1,560.2	594.1	959.4	914.1	45.30	21.178	
10,700.0	8,982.6	11,881.2	9,806.7	20.5	26.1	-149.64	-1,620.2	593.6	959.4	913.5	45.94	20.886	
10,735.0	8,982.7	11,916.2	9,806.7	20.6	26.2	-149.64	-1,655.2	593.3	959.4	913.1	46.32	20.715	
10,800.0	8,982.7	11,981.2	9,806.7	20.9	26.5	-149.64	-1,720.2	592.8	959.4	912.4	47.02	20.404	
10,830.0	8,982.7	12,011.2	9,806.7	21.0	26.6	-149.64	-1,750.2	592.5	959.4	912.1	47.35	20.262	
10,900.0	8,982.7	12,081.2	9,806.7	21.2	26.9	-149.64	-1,820.2	591.9	959.4	911.3	48.13	19.934	
10,925.0	8,982.7	12,106.2	9,806.7	21.4	27.0	-149.64	-1,845.2	591.7	959.4	911.0	48.41	19.818	
11,000.0	8,982.8	12,181.2	9,806.8	21.7	27.3	-149.64	-1,920.2	591.1	959.4	910.2	49.26	19.475	
11,020.0	8,982.8	12,201.2	9,806.8	21.8	27.4	-149.64	-1,940.2	590.9	959.4	909.9	49.49	19.385	
11,100.0	8,982.8	12,281.2	9,806.8	22.2	27.8	-149.64	-2,020.2	590.3	959.4	909.0	50.42	19.029	
11,115.0	8,982.8	12,296.2	9,806.8	22.2	27.9	-149.64	-2,035.2	590.2	959.4	908.8	50.59	18.963	
11,200.0	8,982.9	12,381.2	9,806.8	22.7	28.3	-149.64	-2,120.2	589.5	959.4	907.8	51.60	18.594	
11,210.0	8,982.9	12,391.2	9,806.9	22.7	28.3	-149.64	-2,130.2	589.4	959.4	907.7	51.72	18.552	
11,300.0	8,982.9	12,481.2	9,806.9	23.2	28.7	-149.64	-2,220.2	588.6	959.4	906.6	52.79	18.173	
11,305.0	8,982.9	12,486.2	9,806.9	23.2	28.8	-149.64	-2,225.2	588.6	959.4	906.5	52.85	18.152	
11,400.0	8,983.0	12,581.2	9,806.9	23.8	29.2	-149.64	-2,320.2	587.8	959.4	905.4	54.01	17.764	
11,495.0	8,983.0	12,676.2	9,807.0	24.3	29.7	-149.64	-2,415.2	587.0	959.4	904.2	55.18	17.386	
11,500.0	8,983.0	12,681.2	9,807.0	24.4	29.8	-149.64	-2,420.2	587.0	959.4	904.1	55.24	17.367	
11,590.0	8,983.1	12,771.2	9,807.0	24.9	30.2	-149.64	-2,510.2	586.2	959.4	903.0	56.37	17.021	
11,600.0	8,983.1	12,781.2	9,807.0	25.0	30.3	-149.64	-2,520.2	586.2	959.4	902.9	56.49	16.983	
11,685.0	8,983.1	12,866.2	9,807.0	25.5	30.7	-149.64	-2,605.2	585.5	959.4	901.8	57.56	16.666	
11,700.0	8,983.1	12,881.2	9,807.0	25.6	30.8	-149.64	-2,620.2	585.3	959.4	901.6	57.75	16.611	
11,780.0	8,983.1	12,961.2	9,807.1	26.1	31.3	-149.64	-2,700.2	584.7	959.4	900.6	58.78	16.322	
11,800.0	8,983.2	12,981.2	9,807.1	26.2	31.4	-149.64	-2,720.2	584.5	959.4	900.3	59.03	16.252	
11,875.0	8,983.2	13,056.2	9,807.1	26.7	31.8	-149.64	-2,795.2	583.9	959.4	899.4	60.00	15.989	
11,900.0	8,983.2	13,081.2	9,807.1	26.8	31.9	-149.64	-2,820.2	583.7	959.4	899.0	60.32	15.904	
11,970.0	8,983.2	13,151.2	9,807.2	27.3	32.3	-149.64	-2,890.2	583.1	959.4	898.1	61.24	15.667	
12,000.0	8,983.2	13,181.2	9,807.2	27.5	32.5	-149.64	-2,920.2	582.8	959.4	897.7	61.63	15.567	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
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	
12,065.0	8,983.3	13,246.2	9,807.2	27.9	32.9	-149.64	-2,985.2	582.3	959.4	896.9	62.48	15.354		
12,100.0	8,983.3	13,281.2	9,807.2	28.1	33.1	-149.64	-3,020.2	582.0	959.3	896.4	62.94	15.242		
12,160.0	8,983.3	13,341.2	9,807.2	28.5	33.4	-149.64	-3,080.2	581.5	959.3	895.6	63.74	15.052		
12,200.0	8,983.3	13,381.2	9,807.2	28.8	33.7	-149.64	-3,120.2	581.2	959.3	895.1	64.27	14.927		
12,255.0	8,983.4	13,436.2	9,807.3	29.2	34.0	-149.64	-3,175.2	580.7	959.3	894.3	65.00	14.759		
12,300.0	8,983.4	13,481.2	9,807.3	29.5	34.3	-149.64	-3,220.2	580.4	959.3	893.7	65.60	14.623		
12,350.0	8,983.4	13,531.2	9,807.3	29.8	34.6	-149.64	-3,270.2	580.0	959.3	893.1	66.28	14.475		
12,400.0	8,983.4	13,581.2	9,807.3	30.1	34.9	-149.64	-3,320.2	579.5	959.3	892.4	66.95	14.329		
12,445.0	8,983.5	13,626.2	9,807.3	30.4	35.2	-149.64	-3,365.2	579.2	959.3	891.8	67.56	14.200		
12,500.0	8,983.5	13,681.2	9,807.4	30.8	35.5	-149.64	-3,420.2	578.7	959.3	891.0	68.30	14.045		
12,540.0	8,983.5	13,721.2	9,807.4	31.1	35.7	-149.64	-3,460.2	578.4	959.3	890.5	68.85	13.934		
12,600.0	8,983.5	13,781.2	9,807.4	31.5	36.1	-149.64	-3,520.2	577.9	959.3	889.7	69.67	13.770		
12,635.0	8,983.5	13,816.2	9,807.4	31.7	36.3	-149.64	-3,555.2	577.6	959.3	889.2	70.15	13.676		
12,700.0	8,983.6	13,881.2	9,807.4	32.2	36.7	-149.64	-3,620.2	577.1	959.3	888.3	71.04	13.504		
12,730.0	8,983.6	13,911.2	9,807.4	32.4	36.9	-149.64	-3,650.2	576.8	959.3	887.9	71.45	13.426		
12,800.0	8,983.6	13,981.2	9,807.5	32.9	37.4	-149.64	-3,720.2	576.2	959.3	886.9	72.42	13.247		
12,825.0	8,983.6	14,006.2	9,807.5	33.1	37.5	-149.64	-3,745.1	576.0	959.3	886.5	72.76	13.184		
12,900.0	8,983.7	14,081.2	9,807.5	33.6	38.0	-149.64	-3,820.1	575.4	959.3	885.5	73.80	12.998		
12,920.0	8,983.7	14,101.2	9,807.5	33.7	38.1	-149.64	-3,840.1	575.2	959.3	885.2	74.08	12.950		
13,000.0	8,983.7	14,181.2	9,807.6	34.3	38.6	-149.64	-3,920.1	574.6	959.3	884.1	75.19	12.758		
13,015.0	8,983.7	14,196.2	9,807.6	34.4	38.7	-149.64	-3,935.1	574.5	959.3	883.9	75.40	12.722		
13,100.0	8,983.8	14,281.2	9,807.6	35.0	39.3	-149.64	-4,020.1	573.8	959.3	882.7	76.59	12.525		
13,110.0	8,983.8	14,291.2	9,807.6	35.0	39.4	-149.64	-4,030.1	573.7	959.3	882.6	76.73	12.502		
13,200.0	8,983.8	14,381.2	9,807.6	35.7	39.9	-149.64	-4,120.1	572.9	959.3	881.3	78.00	12.299		
13,205.0	8,983.8	14,386.2	9,807.6	35.7	40.0	-149.64	-4,125.1	572.9	959.3	881.2	78.07	12.288		
13,300.0	8,983.9	14,481.2	9,807.7	36.4	40.6	-149.64	-4,220.1	572.1	959.3	879.9	79.41	12.080		
13,395.0	8,983.9	14,576.2	9,807.7	37.1	41.2	-149.64	-4,315.1	571.3	959.3	878.5	80.75	11.879		
13,400.0	8,983.9	14,581.2	9,807.7	37.1	41.3	-149.64	-4,320.1	571.3	959.3	878.4	80.82	11.869		
13,490.0	8,983.9	14,671.2	9,807.7	37.7	41.9	-149.64	-4,410.1	570.5	959.3	877.2	82.10	11.684		
13,500.0	8,983.9	14,681.2	9,807.8	37.8	41.9	-149.64	-4,420.1	570.5	959.3	877.0	82.24	11.664		
13,585.0	8,984.0	14,766.2	9,807.8	38.4	42.5	-149.64	-4,505.1	569.8	959.3	875.8	83.46	11.494		
13,600.0	8,984.0	14,781.2	9,807.8	38.5	42.6	-149.64	-4,520.1	569.6	959.3	875.6	83.67	11.465		
13,680.0	8,984.0	14,861.2	9,807.8	39.1	43.1	-149.64	-4,600.1	569.0	959.2	874.4	84.81	11.310		
13,700.0	8,984.0	14,881.2	9,807.8	39.2	43.3	-149.64	-4,620.1	568.8	959.2	874.1	85.10	11.272		
13,775.0	8,984.1	14,956.2	9,807.9	39.8	43.8	-149.64	-4,695.1	568.2	959.2	873.1	86.18	11.131		
13,800.0	8,984.1	14,981.2	9,807.9	40.0	43.9	-149.64	-4,720.1	568.0	959.2	872.7	86.54	11.085		
13,870.0	8,984.1	15,051.2	9,807.9	40.5	44.4	-149.64	-4,790.1	567.4	959.2	871.7	87.54	10.957		
13,900.0	8,984.1	15,081.2	9,807.9	40.7	44.6	-149.64	-4,820.1	567.1	959.2	871.3	87.97	10.904		
13,965.0	8,984.2	15,146.2	9,807.9	41.1	45.1	-149.64	-4,885.1	566.6	959.2	870.3	88.91	10.788		
14,000.0	8,984.2	15,181.2	9,807.9	41.4	45.3	-149.64	-4,920.1	566.3	959.2	869.8	89.42	10.728		
14,060.0	8,984.2	15,241.2	9,808.0	41.8	45.7	-149.64	-4,980.1	565.8	959.2	868.9	90.29	10.624		
14,100.0	8,984.2	15,281.2	9,808.0	42.1	46.0	-149.64	-5,020.1	565.5	959.2	868.4	90.86	10.557		
14,155.0	8,984.3	15,336.2	9,808.0	42.5	46.4	-149.64	-5,075.1	565.0	959.2	867.6	91.66	10.465		
14,200.0	8,984.3	15,381.2	9,808.0	42.8	46.7	-149.64	-5,120.1	564.7	959.2	866.9	92.31	10.391		
14,250.0	8,984.3	15,431.2	9,808.0	43.2	47.0	-149.64	-5,170.1	564.3	959.2	866.2	93.04	10.310		
14,300.0	8,984.3	15,481.2	9,808.1	43.6	47.4	-149.64	-5,220.1	563.8	959.2	865.4	93.77	10.230		
14,345.0	8,984.3	15,526.2	9,808.1	43.9	47.7	-149.64	-5,265.1	563.5	959.2	864.8	94.42	10.158		
14,400.0	8,984.4	15,581.2	9,808.1	44.3	48.0	-149.64	-5,320.1	563.0	959.2	864.0	95.23	10.073		
14,440.0	8,984.4	15,621.2	9,808.1	44.6	48.3	-149.64	-5,360.1	562.7	959.2	863.4	95.81	10.012		
14,500.0	8,984.4	15,681.2	9,808.1	45.0	48.7	-149.64	-5,420.1	562.2	959.2	862.5	96.69	9.921		
14,535.0	8,984.4	15,716.2	9,808.2	45.3	49.0	-149.64	-5,455.1	561.9	959.2	862.0	97.20	9.868		

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
14,600.0	8,984.5	15,781.2	9,808.2	45.8	49.4	-149.64	-5,520.1	561.4	959.2	861.0	98.15	9.773
14,630.0	8,984.5	15,811.2	9,808.2	46.0	49.6	-149.64	-5,550.1	561.1	959.2	860.6	98.59	9.729
14,700.0	8,984.5	15,881.2	9,808.2	46.5	50.1	-149.64	-5,620.1	560.5	959.2	859.6	99.61	9.629
14,725.0	8,984.5	15,906.2	9,808.2	46.7	50.3	-149.64	-5,645.1	560.3	959.2	859.2	99.98	9.594
14,800.0	8,984.6	15,981.2	9,808.3	47.2	50.8	-149.64	-5,720.1	559.7	959.2	858.1	101.08	9.489
14,820.0	8,984.6	16,001.2	9,808.3	47.4	51.0	-149.64	-5,740.1	559.5	959.2	857.8	101.38	9.461
14,900.0	8,984.6	16,081.2	9,808.3	47.9	51.5	-149.64	-5,820.1	558.9	959.2	856.6	102.55	9.353
14,915.0	8,984.6	16,096.2	9,808.3	48.1	51.6	-149.64	-5,835.1	558.8	959.2	856.4	102.78	9.333
15,000.0	8,984.6	16,181.2	9,808.3	48.7	52.2	-149.64	-5,920.1	558.1	959.2	855.1	104.03	9.220
15,010.0	8,984.7	16,191.2	9,808.3	48.8	52.3	-149.64	-5,930.1	558.0	959.2	855.0	104.18	9.207
15,100.0	8,984.7	16,281.2	9,808.4	49.4	53.0	-149.64	-6,020.1	557.2	959.2	853.6	105.51	9.091
15,105.0	8,984.7	16,286.2	9,808.4	49.5	53.0	-149.64	-6,025.1	557.2	959.2	853.6	105.58	9.085
15,200.0	8,984.7	16,381.2	9,808.4	50.2	53.7	-149.64	-6,120.1	556.4	959.1	852.2	106.98	8.965
15,295.0	8,984.8	16,476.2	9,808.5	50.9	54.3	-149.64	-6,215.1	555.6	959.1	850.7	108.39	8.849
15,300.0	8,984.8	16,481.2	9,808.5	50.9	54.4	-149.64	-6,220.1	555.6	959.1	850.7	108.46	8.843
15,390.0	8,984.8	16,571.2	9,808.5	51.6	55.0	-149.64	-6,310.1	554.8	959.1	849.3	109.80	8.735
15,400.0	8,984.8	16,581.2	9,808.5	51.6	55.1	-149.63	-6,320.1	554.8	959.1	849.2	109.95	8.724
15,485.0	8,984.9	16,666.2	9,808.5	52.3	55.7	-149.63	-6,405.1	554.1	959.1	847.9	111.21	8.624
15,500.0	8,984.9	16,681.2	9,808.5	52.4	55.8	-149.63	-6,420.1	553.9	959.1	847.7	111.43	8.607
15,580.0	8,984.9	16,761.2	9,808.6	53.0	56.4	-149.63	-6,500.1	553.3	959.1	846.5	112.62	8.516
15,600.0	8,984.9	16,781.2	9,808.6	53.1	56.5	-149.63	-6,520.1	553.1	959.1	846.2	112.92	8.494
15,675.0	8,985.0	16,856.2	9,808.6	53.7	57.0	-149.63	-6,595.1	552.5	959.1	845.1	114.04	8.411
15,700.0	8,985.0	16,881.2	9,808.6	53.8	57.2	-149.63	-6,620.1	552.3	959.1	844.7	114.41	8.383
15,770.0	8,985.0	16,951.2	9,808.6	54.4	57.7	-149.63	-6,690.0	551.7	959.1	843.7	115.45	8.307
15,800.0	8,985.0	16,981.2	9,808.7	54.6	57.9	-149.63	-6,720.0	551.4	959.1	843.2	115.90	8.275
15,865.0	8,985.1	17,046.2	9,808.7	55.1	58.4	-149.63	-6,785.0	550.9	959.1	842.2	116.87	8.207
15,900.0	8,985.1	17,081.2	9,808.7	55.3	58.7	-149.63	-6,820.0	550.6	959.1	841.7	117.39	8.170
15,960.0	8,985.1	17,141.2	9,808.7	55.8	59.1	-149.63	-6,880.0	550.1	959.1	840.8	118.29	8.108
16,000.0	8,985.1	17,181.2	9,808.7	56.1	59.4	-149.63	-6,920.0	549.8	959.1	840.2	118.89	8.067
16,055.0	8,985.1	17,236.2	9,808.8	56.5	59.8	-149.63	-6,975.0	549.3	959.1	839.4	119.71	8.012
16,100.0	8,985.2	17,281.2	9,808.8	56.8	60.1	-149.63	-7,020.0	549.0	959.1	838.7	120.38	7.967
16,150.0	8,985.2	17,331.2	9,808.8	57.2	60.5	-149.63	-7,070.0	548.6	959.1	838.0	121.13	7.918
16,200.0	8,985.2	17,381.2	9,808.8	57.6	60.8	-149.63	-7,120.0	548.1	959.1	837.2	121.88	7.869
16,245.0	8,985.2	17,426.2	9,808.8	57.9	61.1	-149.63	-7,165.0	547.8	959.1	836.5	122.55	7.826
16,300.0	8,985.3	17,481.2	9,808.8	58.3	61.5	-149.63	-7,220.0	547.3	959.1	835.7	123.38	7.774
16,340.0	8,985.3	17,521.2	9,808.9	58.6	61.8	-149.63	-7,260.0	547.0	959.1	835.1	123.98	7.736
16,400.0	8,985.3	17,581.2	9,808.9	59.0	62.3	-149.63	-7,320.0	546.5	959.1	834.2	124.88	7.680
16,435.0	8,985.3	17,616.2	9,808.9	59.3	62.5	-149.63	-7,355.0	546.2	959.1	833.7	125.40	7.648
16,500.0	8,985.3	17,681.2	9,808.9	59.8	63.0	-149.63	-7,420.0	545.7	959.1	832.7	126.38	7.589
16,530.0	8,985.4	17,711.2	9,808.9	60.0	63.2	-149.63	-7,450.0	545.4	959.1	832.2	126.83	7.562
16,600.0	8,985.4	17,781.2	9,809.0	60.5	63.7	-149.63	-7,520.0	544.8	959.1	831.2	127.88	7.500
16,625.0	8,985.4	17,806.2	9,809.0	60.7	63.9	-149.63	-7,545.0	544.6	959.1	830.8	128.26	7.478
16,700.0	8,985.4	17,881.2	9,809.0	61.3	64.4	-149.63	-7,620.0	544.0	959.0	829.7	129.39	7.412
16,720.0	8,985.5	17,901.2	9,809.0	61.4	64.6	-149.63	-7,640.0	543.8	959.0	829.4	129.69	7.395
16,800.0	8,985.5	17,981.2	9,809.0	62.0	65.2	-149.63	-7,720.0	543.2	959.0	828.1	130.89	7.327
16,815.0	8,985.5	17,996.2	9,809.1	62.1	65.3	-149.63	-7,735.0	543.1	959.0	827.9	131.12	7.314
16,900.0	8,985.5	18,081.2	9,809.1	62.8	65.9	-149.63	-7,820.0	542.4	959.0	826.6	132.40	7.244
16,910.0	8,985.5	18,091.2	9,809.1	62.8	66.0	-149.63	-7,830.0	542.3	959.0	826.5	132.55	7.235
17,000.0	8,985.6	18,181.2	9,809.1	63.5	66.6	-149.63	-7,920.0	541.5	959.0	825.1	133.91	7.162
17,005.0	8,985.6	18,186.2	9,809.1	63.6	66.7	-149.63	-7,925.0	541.5	959.0	825.0	133.98	7.158
17,100.0	8,985.6	18,281.2	9,809.2	64.3	67.4	-149.63	-8,020.0	540.7	959.0	823.6	135.41	7.082

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Rule Assigned:											Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor
17,195.0	8,985.7	18,376.2	9,809.2	65.0	68.1	-149.63	-8,115.0	539.9	959.0	822.2	136.85	7.008
17,200.0	8,985.7	18,381.2	9,809.2	65.0	68.1	-149.63	-8,120.0	539.9	959.0	822.1	136.92	7.004
17,290.0	8,985.7	18,471.2	9,809.2	65.7	68.8	-149.63	-8,210.0	539.1	959.0	820.7	138.28	6.935
17,300.0	8,985.7	18,481.2	9,809.2	65.8	68.8	-149.63	-8,220.0	539.1	959.0	820.6	138.44	6.927
17,385.0	8,985.8	18,566.2	9,809.3	66.4	69.4	-149.63	-8,305.0	538.3	959.0	819.3	139.72	6.864
17,400.0	8,985.8	18,581.2	9,809.3	66.5	69.6	-149.63	-8,320.0	538.2	959.0	819.1	139.95	6.853
17,480.0	8,985.8	18,661.2	9,809.3	67.1	70.1	-149.63	-8,400.0	537.6	959.0	817.8	141.16	6.794
17,500.0	8,985.8	18,681.2	9,809.3	67.3	70.3	-149.63	-8,420.0	537.4	959.0	817.5	141.46	6.779
17,575.0	8,985.8	18,756.2	9,809.3	67.8	70.8	-149.63	-8,495.0	536.8	959.0	816.4	142.60	6.725
17,600.0	8,985.9	18,781.2	9,809.4	68.0	71.0	-149.63	-8,520.0	536.6	959.0	816.0	142.97	6.707
17,670.0	8,985.9	18,851.2	9,809.4	68.5	71.5	-149.63	-8,590.0	536.0	959.0	814.9	144.03	6.658
17,700.0	8,985.9	18,881.2	9,809.4	68.8	71.8	-149.63	-8,620.0	535.7	959.0	814.5	144.49	6.637
17,765.0	8,985.9	18,946.2	9,809.4	69.2	72.2	-149.63	-8,685.0	535.2	959.0	813.5	145.47	6.592
17,800.0	8,986.0	18,981.2	9,809.4	69.5	72.5	-149.63	-8,720.0	534.9	959.0	813.0	146.01	6.568
17,860.0	8,986.0	19,041.2	9,809.5	70.0	72.9	-149.63	-8,780.0	534.4	959.0	812.1	146.92	6.527
17,900.0	8,986.0	19,081.2	9,809.5	70.3	73.2	-149.63	-8,820.0	534.1	959.0	811.4	147.52	6.501
17,955.0	8,986.0	19,136.2	9,809.5	70.7	73.6	-149.63	-8,875.0	533.6	959.0	810.6	148.36	6.464
18,000.0	8,986.0	19,181.2	9,809.5	71.0	74.0	-149.63	-8,920.0	533.3	959.0	809.9	149.04	6.434
18,050.0	8,986.1	19,231.2	9,809.5	71.4	74.3	-149.63	-8,970.0	532.9	959.0	809.2	149.80	6.402
18,100.0	8,986.1	19,281.2	9,809.6	71.8	74.7	-149.63	-9,020.0	532.4	959.0	808.4	150.56	6.369
18,145.0	8,986.1	19,326.2	9,809.6	72.1	75.0	-149.63	-9,065.0	532.1	959.0	807.7	151.24	6.341
18,200.0	8,986.1	19,381.2	9,809.6	72.5	75.4	-149.63	-9,120.0	531.6	958.9	806.9	152.08	6.306
18,240.0	8,986.2	19,421.2	9,809.6	72.8	75.7	-149.63	-9,160.0	531.3	958.9	806.3	152.69	6.281
18,300.0	8,986.2	19,481.2	9,809.6	73.3	76.2	-149.63	-9,220.0	530.8	958.9	805.3	153.60	6.243
18,335.0	8,986.2	19,516.2	9,809.6	73.5	76.4	-149.63	-9,255.0	530.5	958.9	804.8	154.13	6.222
18,400.0	8,986.2	19,581.2	9,809.7	74.0	76.9	-149.63	-9,320.0	530.0	958.9	803.8	155.12	6.182
18,430.0	8,986.2	19,611.2	9,809.7	74.2	77.1	-149.63	-9,350.0	529.7	958.9	803.4	155.57	6.164
18,500.0	8,986.3	19,681.2	9,809.7	74.8	77.7	-149.63	-9,420.0	529.1	958.9	802.3	156.64	6.122
18,525.0	8,986.3	19,706.2	9,809.7	74.9	77.8	-149.63	-9,445.0	528.9	958.9	801.9	157.02	6.107
18,600.0	8,986.3	19,781.2	9,809.8	75.5	78.4	-149.63	-9,520.0	528.3	958.9	800.8	158.16	6.063
18,620.0	8,986.3	19,801.2	9,809.8	75.7	78.5	-149.63	-9,540.0	528.1	958.9	800.5	158.47	6.051
18,700.0	8,986.4	19,881.2	9,809.8	76.3	79.1	-149.63	-9,619.9	527.5	958.9	799.2	159.68	6.005
18,715.0	8,986.4	19,896.2	9,809.8	76.4	79.2	-149.63	-9,634.9	527.4	958.9	799.0	159.91	5.996
18,800.0	8,986.4	19,981.2	9,809.8	77.0	79.9	-149.63	-9,719.9	526.7	958.9	797.7	161.21	5.948
18,810.0	8,986.4	19,991.2	9,809.8	77.1	80.0	-149.63	-9,729.9	526.6	958.9	797.5	161.36	5.943
18,900.0	8,986.5	20,081.2	9,809.9	77.8	80.6	-149.63	-9,819.9	525.8	958.9	796.2	162.73	5.893
18,905.0	8,986.5	20,086.2	9,809.9	77.8	80.7	-149.63	-9,824.9	525.8	958.9	796.1	162.81	5.890
19,000.0	8,986.5	20,181.2	9,809.9	78.5	81.4	-149.63	-9,919.9	525.0	958.9	794.6	164.26	5.838
19,095.0	8,986.6	20,276.2	9,809.9	79.2	82.1	-149.63	-10,014.9	524.2	958.9	793.2	165.71	5.787
19,100.0	8,986.6	20,281.2	9,809.9	79.3	82.1	-149.63	-10,019.9	524.2	958.9	793.1	165.78	5.784
19,190.0	8,986.6	20,371.2	9,810.0	80.0	82.8	-149.63	-10,109.9	523.4	958.9	791.7	167.16	5.736
19,200.0	8,986.6	20,381.2	9,810.0	80.0	82.8	-149.63	-10,119.9	523.4	958.9	791.6	167.31	5.731
19,285.0	8,986.6	20,466.2	9,810.0	80.7	83.5	-149.63	-10,204.9	522.6	958.9	790.3	168.61	5.687
19,300.0	8,986.7	20,481.2	9,810.0	80.8	83.6	-149.63	-10,219.9	522.5	958.9	790.0	168.83	5.679
19,380.0	8,986.7	20,561.2	9,810.1	81.4	84.2	-149.63	-10,299.9	521.9	958.9	788.8	170.06	5.639
19,400.0	8,986.7	20,581.2	9,810.1	81.5	84.3	-149.63	-10,319.9	521.7	958.9	788.5	170.36	5.628
19,475.0	8,986.7	20,656.2	9,810.1	82.1	84.9	-149.63	-10,394.9	521.1	958.9	787.4	171.51	5.591
19,500.0	8,986.7	20,681.2	9,810.1	82.3	85.1	-149.63	-10,419.9	520.9	958.9	787.0	171.89	5.578
19,570.0	8,986.8	20,751.2	9,810.1	82.8	85.6	-149.63	-10,489.9	520.3	958.9	785.9	172.96	5.544
19,600.0	8,986.8	20,781.2	9,810.1	83.0	85.8	-149.63	-10,519.9	520.0	958.9	785.4	173.42	5.529
19,665.0	8,986.8	20,846.2	9,810.2	83.5	86.3	-149.63	-10,584.9	519.5	958.9	784.4	174.41	5.498

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
19,700.0	8,986.8	20,881.2	9,810.2	83.8	86.6	-149.63	-10,619.9	519.2	958.8	783.9	174.95	5.481
19,760.0	8,986.9	20,941.2	9,810.2	84.3	87.0	-149.63	-10,679.9	518.7	958.8	783.0	175.86	5.452
19,800.0	8,986.9	20,981.2	9,810.2	84.6	87.3	-149.63	-10,719.9	518.4	958.8	782.4	176.48	5.433
19,855.0	8,986.9	21,036.2	9,810.2	85.0	87.7	-149.63	-10,774.9	517.9	958.8	781.5	177.32	5.408
19,900.0	8,986.9	21,081.2	9,810.3	85.3	88.1	-149.63	-10,819.9	517.6	958.8	780.8	178.00	5.387
19,950.0	8,987.0	21,131.2	9,810.3	85.7	88.4	-149.63	-10,869.9	517.2	958.8	780.1	178.77	5.364
20,000.0	8,987.0	21,181.2	9,810.3	86.1	88.8	-149.63	-10,919.9	516.7	958.8	779.3	179.53	5.341
20,045.0	8,987.0	21,226.2	9,810.3	86.4	89.1	-149.63	-10,964.9	516.4	958.8	778.6	180.22	5.320
20,100.0	8,987.0	21,281.2	9,810.3	86.8	89.5	-149.63	-11,019.9	515.9	958.8	777.8	181.07	5.295
20,140.0	8,987.0	21,321.2	9,810.4	87.1	89.8	-149.62	-11,059.9	515.6	958.8	777.1	181.68	5.278
20,200.0	8,987.1	21,381.2	9,810.4	87.6	90.3	-149.62	-11,119.9	515.1	958.8	776.2	182.60	5.251
20,235.0	8,987.1	21,416.2	9,810.4	87.8	90.6	-149.62	-11,154.9	514.8	958.8	775.7	183.13	5.236
20,300.0	8,987.1	21,481.2	9,810.4	88.3	91.0	-149.62	-11,219.9	514.3	958.8	774.7	184.13	5.207
20,330.0	8,987.1	21,511.2	9,810.4	88.6	91.3	-149.62	-11,249.9	514.0	958.8	774.2	184.59	5.194
20,400.0	8,987.2	21,581.2	9,810.5	89.1	91.8	-149.62	-11,319.9	513.4	958.8	773.1	185.66	5.164
20,425.0	8,987.2	21,606.2	9,810.5	89.3	92.0	-149.62	-11,344.9	513.2	958.8	772.8	186.04	5.154
20,500.0	8,987.2	21,681.2	9,810.5	89.8	92.5	-149.62	-11,419.9	512.6	958.8	771.6	187.19	5.122
20,520.0	8,987.2	21,701.2	9,810.5	90.0	92.7	-149.62	-11,439.9	512.4	958.8	771.3	187.50	5.114
20,600.0	8,987.3	21,781.2	9,810.5	90.6	93.3	-149.62	-11,519.9	511.8	958.8	770.1	188.73	5.080
20,615.0	8,987.3	21,796.2	9,810.5	90.7	93.4	-149.62	-11,534.9	511.7	958.8	769.8	188.96	5.074
20,700.0	8,987.3	21,881.2	9,810.6	91.4	94.0	-149.62	-11,619.9	511.0	958.8	768.5	190.26	5.039
20,710.0	8,987.3	21,891.2	9,810.6	91.4	94.1	-149.62	-11,629.9	510.9	958.8	768.4	190.41	5.035
20,800.0	8,987.4	21,981.2	9,810.6	92.1	94.8	-149.62	-11,719.9	510.1	958.8	767.0	191.79	4.999
20,805.0	8,987.4	21,986.2	9,810.6	92.1	94.8	-149.62	-11,724.9	510.1	958.8	766.9	191.87	4.997
20,900.0	8,987.4	22,081.2	9,810.7	92.9	95.5	-149.62	-11,819.9	509.3	958.8	765.4	193.33	4.959
20,995.0	8,987.4	22,176.2	9,810.7	93.6	96.2	-149.62	-11,914.9	508.5	958.8	764.0	194.78	4.922
21,000.0	8,987.4	22,181.2	9,810.7	93.6	96.3	-149.62	-11,919.9	508.5	958.8	763.9	194.86	4.920
21,090.0	8,987.5	22,271.2	9,810.7	94.3	96.9	-149.62	-12,009.9	507.7	958.8	762.5	196.24	4.886
21,100.0	8,987.5	22,281.2	9,810.7	94.4	97.0	-149.62	-12,019.9	507.7	958.8	762.4	196.40	4.882
21,185.0	8,987.5	22,366.2	9,810.8	95.0	97.7	-149.62	-12,104.9	506.9	958.8	761.1	197.70	4.850
21,200.0	8,987.5	22,381.2	9,810.8	95.1	97.8	-149.62	-12,119.9	506.8	958.8	760.8	197.93	4.844
21,280.0	8,987.6	22,461.2	9,810.8	95.7	98.4	-149.62	-12,199.9	506.2	958.7	759.6	199.16	4.814
21,300.0	8,987.6	22,481.2	9,810.8	95.9	98.5	-149.62	-12,219.9	506.0	958.7	759.3	199.47	4.807
21,375.0	8,987.6	22,556.2	9,810.8	96.5	99.1	-149.62	-12,294.9	505.4	958.7	758.1	200.62	4.779
21,400.0	8,987.6	22,581.2	9,810.8	96.6	99.3	-149.62	-12,319.9	505.2	958.7	757.7	201.00	4.770
21,470.0	8,987.7	22,651.2	9,810.9	97.2	99.8	-149.62	-12,389.9	504.6	958.7	756.7	202.08	4.744
21,500.0	8,987.7	22,681.2	9,810.9	97.4	100.0	-149.62	-12,419.9	504.3	958.7	756.2	202.54	4.734
21,565.0	8,987.7	22,746.2	9,810.9	97.9	100.5	-149.62	-12,484.9	503.8	958.7	755.2	203.54	4.710
21,600.0	8,987.7	22,781.2	9,810.9	98.2	100.8	-149.62	-12,519.9	503.5	958.7	754.7	204.07	4.698
21,660.0	8,987.8	22,841.2	9,811.0	98.6	101.2	-149.62	-12,579.9	503.0	958.7	753.7	205.00	4.677
21,700.0	8,987.8	22,881.2	9,811.0	98.9	101.5	-149.62	-12,619.9	502.7	958.7	753.1	205.61	4.663
21,755.0	8,987.8	22,936.2	9,811.0	99.3	101.9	-149.62	-12,674.9	502.2	958.7	752.3	206.46	4.644
21,800.0	8,987.8	22,981.2	9,811.0	99.7	102.3	-149.62	-12,719.9	501.9	958.7	751.6	207.15	4.628
21,850.0	8,987.8	23,031.2	9,811.0	100.1	102.6	-149.62	-12,769.9	501.5	958.7	750.8	207.92	4.611
21,900.0	8,987.9	23,081.2	9,811.0	100.4	103.0	-149.62	-12,819.9	501.0	958.7	750.0	208.69	4.594
21,945.0	8,987.9	23,126.2	9,811.1	100.8	103.4	-149.62	-12,864.9	500.7	958.7	749.3	209.38	4.579
22,000.0	8,987.9	23,181.2	9,811.1	101.2	103.8	-149.62	-12,919.9	500.2	958.7	748.5	210.22	4.560
22,040.0	8,987.9	23,221.2	9,811.1	101.5	104.1	-149.62	-12,959.9	499.9	958.7	747.9	210.84	4.547
22,100.0	8,988.0	23,281.2	9,811.1	102.0	104.5	-149.62	-13,019.9	499.4	958.7	746.9	211.76	4.527
22,135.0	8,988.0	23,316.2	9,811.1	102.2	104.8	-149.62	-13,054.9	499.1	958.7	746.4	212.30	4.516
22,200.0	8,988.0	23,381.2	9,811.2	102.7	105.3	-149.62	-13,119.9	498.6	958.7	745.4	213.30	4.495

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor
22,230.0	8,988.0	23,411.2	9,811.2	102.9	105.5	-149.62	-13,149.8	498.3	958.7	744.9	213.76	4.485
22,300.0	8,988.1	23,481.2	9,811.2	103.5	106.0	-149.62	-13,219.8	497.7	958.7	743.8	214.84	4.462
22,325.0	8,988.1	23,506.2	9,811.2	103.7	106.2	-149.62	-13,244.8	497.5	958.7	743.5	215.22	4.454
22,400.0	8,988.1	23,581.2	9,811.2	104.2	106.8	-149.62	-13,319.8	496.9	958.7	742.3	216.38	4.431
22,420.0	8,988.1	23,601.2	9,811.2	104.4	106.9	-149.62	-13,339.8	496.7	958.7	742.0	216.68	4.424
22,500.0	8,988.1	23,681.2	9,811.3	105.0	107.5	-149.62	-13,419.8	496.1	958.7	740.7	217.92	4.399
22,515.0	8,988.2	23,696.2	9,811.3	105.1	107.6	-149.62	-13,434.8	496.0	958.7	740.5	218.15	4.395
22,600.0	8,988.2	23,781.2	9,811.3	105.7	108.3	-149.62	-13,519.8	495.3	958.7	739.2	219.46	4.368
22,610.0	8,988.2	23,791.2	9,811.3	105.8	108.4	-149.62	-13,529.8	495.2	958.7	739.0	219.61	4.365
22,700.0	8,988.2	23,881.2	9,811.4	106.5	109.0	-149.62	-13,619.8	494.4	958.7	737.7	220.99	4.338
22,705.0	8,988.2	23,886.2	9,811.4	106.5	109.1	-149.62	-13,624.8	494.4	958.7	737.6	221.07	4.336
22,800.0	8,988.3	23,981.2	9,811.4	107.3	109.8	-149.62	-13,719.8	493.6	958.6	736.1	222.53	4.308
22,895.0	8,988.3	24,076.2	9,811.4	108.0	110.5	-149.62	-13,814.8	492.8	958.6	734.6	224.00	4.280
22,900.0	8,988.3	24,081.2	9,811.4	108.0	110.5	-149.62	-13,819.8	492.8	958.6	734.6	224.07	4.278
22,990.0	8,988.4	24,171.2	9,811.5	108.7	111.2	-149.62	-13,909.8	492.0	958.6	733.2	225.46	4.252
23,000.0	8,988.4	24,181.2	9,811.5	108.8	111.3	-149.62	-13,919.8	492.0	958.6	733.0	225.62	4.249
23,085.0	8,988.4	24,266.2	9,811.5	109.4	111.9	-149.62	-14,004.8	491.2	958.6	731.7	226.92	4.224
23,100.0	8,988.4	24,281.2	9,811.5	109.5	112.0	-149.62	-14,019.8	491.1	958.6	731.5	227.16	4.220
23,180.0	8,988.5	24,361.2	9,811.5	110.1	112.6	-149.62	-14,099.8	490.5	958.6	730.2	228.39	4.197
23,200.0	8,988.5	24,381.2	9,811.6	110.3	112.8	-149.62	-14,119.8	490.3	958.6	729.9	228.70	4.192
23,275.0	8,988.5	24,456.2	9,811.6	110.9	113.4	-149.62	-14,194.8	489.7	958.6	728.8	229.85	4.171
23,300.0	8,988.5	24,481.2	9,811.6	111.0	113.5	-149.62	-14,219.8	489.5	958.6	728.4	230.24	4.164
23,370.0	8,988.6	24,551.2	9,811.6	111.6	114.1	-149.62	-14,289.8	488.9	958.6	727.3	231.32	4.144
23,400.0	8,988.6	24,581.2	9,811.6	111.8	114.3	-149.62	-14,319.8	488.6	958.6	726.8	231.78	4.136
23,465.0	8,988.6	24,646.2	9,811.7	112.3	114.8	-149.62	-14,384.8	488.1	958.6	725.8	232.78	4.118
23,500.0	8,988.6	24,681.2	9,811.7	112.6	115.0	-149.62	-14,419.8	487.8	958.6	725.3	233.32	4.109
23,560.0	8,988.6	24,741.2	9,811.7	113.0	115.5	-149.62	-14,479.8	487.3	958.6	724.4	234.25	4.092
23,600.0	8,988.7	24,781.2	9,811.7	113.3	115.8	-149.62	-14,519.8	487.0	958.6	723.7	234.86	4.082
23,655.0	8,988.7	24,836.2	9,811.7	113.7	116.2	-149.62	-14,574.8	486.5	958.6	722.9	235.71	4.067
23,700.0	8,988.7	24,881.2	9,811.8	114.1	116.6	-149.62	-14,619.8	486.2	958.6	722.2	236.40	4.055
23,750.0	8,988.7	24,931.2	9,811.8	114.5	116.9	-149.62	-14,669.8	485.8	958.6	721.4	237.17	4.042
23,800.0	8,988.8	24,981.2	9,811.8	114.8	117.3	-149.62	-14,719.8	485.3	958.6	720.6	237.95	4.029
23,845.0	8,988.8	25,026.2	9,811.8	115.2	117.6	-149.62	-14,764.8	485.0	958.6	719.9	238.64	4.017
23,900.0	8,988.8	25,081.2	9,811.8	115.6	118.1	-149.62	-14,819.8	484.5	958.6	719.1	239.49	4.003
23,940.0	8,988.8	25,121.2	9,811.8	115.9	118.4	-149.62	-14,859.8	484.2	958.6	718.5	240.11	3.992
24,000.0	8,988.8	25,181.2	9,811.9	116.4	118.8	-149.62	-14,919.8	483.7	958.6	717.5	241.03	3.977
24,035.0	8,988.9	25,216.2	9,811.9	116.6	119.1	-149.62	-14,954.8	483.4	958.6	717.0	241.57	3.968
24,100.0	8,988.9	25,281.2	9,811.9	117.1	119.6	-149.62	-15,019.8	482.9	958.6	716.0	242.57	3.952
24,130.0	8,988.9	25,311.2	9,811.9	117.3	119.8	-149.62	-15,049.8	482.6	958.6	715.5	243.04	3.944
24,190.8	8,988.9	25,372.0	9,811.9	117.8	120.3	-149.62	-15,110.6	482.1	958.6	714.6	243.97	3.929
24,200.0	8,988.9	25,381.2	9,811.9	117.9	120.3	-149.62	-15,119.8	482.0	958.6	714.4	244.12	3.927
24,225.0	8,989.0	25,406.2	9,812.0	118.1	120.5	-149.62	-15,144.8	481.8	958.6	714.1	244.50	3.920
24,300.0	8,989.0	25,481.2	9,812.0	118.6	121.1	-149.62	-15,219.8	481.2	958.5	712.9	245.66	3.902
24,320.0	8,989.0	25,501.2	9,812.0	118.8	121.2	-149.62	-15,239.8	481.0	958.5	712.6	245.97	3.897
24,320.8	8,989.0	25,502.0	9,812.0	118.8	121.2	-149.62	-15,240.6	481.0	958.5	712.6	245.98	3.897 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 #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	-22.74	148.9	-62.4	161.5				
95.0	95.0	90.5	90.5	3.0	3.0	-22.74	148.9	-62.4	161.4	155.4	6.03	26.753	
100.0	100.0	95.5	95.5	3.0	3.0	-22.74	148.9	-62.4	161.4	155.4	6.04	26.732	
190.0	190.0	185.5	185.5	3.1	3.1	-22.74	148.9	-62.4	161.4	155.2	6.25	25.832	
200.0	200.0	195.5	195.5	3.1	3.1	-22.74	148.9	-62.4	161.4	155.2	6.28	25.690	
285.0	285.0	280.5	280.5	3.3	3.2	-22.74	148.9	-62.4	161.4	155.0	6.49	24.866	
300.0	300.0	295.5	295.5	3.3	3.3	-22.74	148.9	-62.4	161.4	154.9	6.53	24.709	
380.0	380.0	375.5	375.5	3.4	3.4	-22.74	148.9	-62.4	161.4	154.7	6.73	23.998	
400.0	400.0	395.5	395.5	3.4	3.4	-22.74	148.9	-62.4	161.4	154.7	6.78	23.814	
475.0	475.0	470.5	470.5	3.5	3.5	-22.74	148.9	-62.4	161.4	154.5	6.96	23.199	
500.0	500.0	495.5	495.5	3.5	3.5	-22.74	148.9	-62.4	161.4	154.4	7.02	22.991	
570.0	570.0	565.5	565.5	3.6	3.6	-22.74	148.9	-62.4	161.4	154.3	7.19	22.458	
600.0	600.0	595.5	595.5	3.6	3.6	-22.74	148.9	-62.4	161.4	154.2	7.26	22.229	
665.0	665.0	660.5	660.5	3.7	3.7	-22.74	148.9	-62.4	161.4	154.0	7.42	21.769	
700.0	700.0	695.5	695.5	3.8	3.8	-22.74	148.9	-62.4	161.4	153.9	7.50	21.523	
760.0	760.0	755.5	755.5	3.8	3.8	-22.74	148.9	-62.4	161.4	153.8	7.64	21.126	
800.0	800.0	795.5	795.5	3.9	3.9	-22.74	148.9	-62.4	161.4	153.7	7.74	20.864	
855.0	855.0	850.5	850.5	4.0	3.9	-22.74	148.9	-62.4	161.4	153.6	7.87	20.525	
900.0	900.0	895.5	895.5	4.0	4.0	-22.74	148.9	-62.4	161.4	153.5	7.97	20.250	
950.0	950.0	945.5	945.5	4.1	4.1	-22.74	148.9	-62.4	161.4	153.4	8.09	19.960	
1,000.0	1,000.0	995.5	995.5	4.1	4.1	-22.74	148.9	-62.4	161.4	153.2	8.21	19.674	
1,045.0	1,045.0	1,040.5	1,040.5	4.2	4.2	-22.74	148.9	-62.4	161.4	153.1	8.31	19.429	
1,100.0	1,100.0	1,095.5	1,095.5	4.2	4.2	-22.74	148.9	-62.4	161.4	153.0	8.44	19.133	
1,140.0	1,140.0	1,135.5	1,135.5	4.3	4.3	-22.74	148.9	-62.4	161.4	152.9	8.53	18.927	
1,200.0	1,200.0	1,195.5	1,195.5	4.4	4.4	-22.74	148.9	-62.4	161.4	152.8	8.67	18.624	
1,235.0	1,235.0	1,230.5	1,230.5	4.4	4.4	-22.74	148.9	-62.4	161.4	152.7	8.75	18.454	
1,300.0	1,300.0	1,295.5	1,295.5	4.5	4.5	-22.74	148.9	-62.4	161.4	152.5	8.90	18.144	
1,330.0	1,330.0	1,325.5	1,325.5	4.5	4.5	-22.74	148.9	-62.4	161.4	152.5	8.97	18.006	
1,400.0	1,400.0	1,395.5	1,395.5	4.6	4.6	-22.74	148.9	-62.4	161.4	152.3	9.13	17.690	
1,425.0	1,425.0	1,420.5	1,420.5	4.6	4.6	-22.74	148.9	-62.4	161.4	152.3	9.18	17.581	
1,500.0	1,500.0	1,495.5	1,495.5	4.7	4.7	-22.74	148.9	-62.4	161.4	152.1	9.35	17.260	
1,519.1	1,519.1	1,513.9	1,513.9	4.8	4.7	-43.63	148.9	-62.4	161.4	152.0	9.42	17.146 CC	
1,520.0	1,520.0	1,514.7	1,514.7	4.8	4.7	-43.63	148.9	-62.4	161.4	152.0	9.42	17.141	
1,600.0	1,600.0	1,590.4	1,590.4	4.9	4.9	-44.03	150.2	-63.0	161.7	152.0	9.68	16.704 ES	
1,615.0	1,615.0	1,604.6	1,604.6	5.0	4.9	-44.16	150.6	-63.2	161.8	152.1	9.74	16.607	
1,700.0	1,699.8	1,685.0	1,684.8	5.2	5.1	-45.26	154.3	-64.9	162.8	152.7	10.11	16.094	
1,710.0	1,709.8	1,694.4	1,694.3	5.2	5.2	-45.43	154.9	-65.1	162.9	152.8	10.16	16.040	
1,800.0	1,799.5	1,779.4	1,778.9	5.4	5.4	-47.27	161.3	-68.0	164.9	154.3	10.55	15.630	
1,805.0	1,804.4	1,784.1	1,783.6	5.5	5.4	-47.39	161.7	-68.2	165.0	154.4	10.56	15.619	
1,850.0	1,849.1	1,826.4	1,825.7	5.5	5.5	-48.53	165.8	-70.1	166.3	155.6	10.70	15.541	
1,900.0	1,898.8	1,873.5	1,872.4	5.6	5.7	-49.89	171.0	-72.5	168.5	157.6	10.86	15.514	
1,995.0	1,993.0	1,962.7	1,960.7	5.8	5.9	-52.27	182.8	-77.8	175.0	163.7	11.24	15.563	
2,000.0	1,998.0	1,967.3	1,965.3	5.8	6.0	-52.38	183.5	-78.1	175.4	164.2	11.26	15.573	
2,090.0	2,087.3	2,051.5	2,048.1	6.1	6.2	-54.33	197.1	-84.3	184.7	173.1	11.57	15.967	
2,100.0	2,097.3	2,061.4	2,057.8	6.1	6.2	-54.54	198.8	-85.1	185.9	174.3	11.60	16.021	
2,185.0	2,181.6	2,145.6	2,140.5	6.3	6.4	-56.22	213.4	-91.7	196.1	184.1	11.94	16.421	
2,200.0	2,196.5	2,160.5	2,155.1	6.4	6.4	-56.50	216.0	-92.9	197.9	185.9	12.01	16.482	
2,280.0	2,275.9	2,239.7	2,232.9	6.6	6.7	-57.90	229.8	-99.2	207.6	195.2	12.36	16.794	
2,300.0	2,295.8	2,259.5	2,252.3	6.6	6.7	-58.23	233.2	-100.7	210.1	197.6	12.45	16.869	
2,375.0	2,370.2	2,333.8	2,325.3	6.9	7.0	-59.40	246.1	-106.6	219.3	206.5	12.80	17.137	
2,400.0	2,395.0	2,358.6	2,349.6	6.9	7.0	-59.77	250.4	-108.6	222.4	209.5	12.91	17.222	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,470.0	2,464.5	2,428.0	2,417.6	7.2	7.3	-60.75	262.5	-114.0	231.1	217.9	13.24	17.452		
2,500.0	2,494.3	2,457.7	2,446.8	7.3	7.4	-61.15	267.6	-116.4	234.9	221.5	13.39	17.546		
2,565.0	2,558.8	2,522.1	2,510.0	7.5	7.6	-61.97	278.8	-121.5	243.1	229.4	13.70	17.743		
2,600.0	2,593.5	2,556.7	2,544.1	7.6	7.7	-62.39	284.8	-124.2	247.5	233.6	13.87	17.845		
2,660.0	2,653.1	2,616.2	2,602.4	7.8	7.9	-63.08	295.1	-128.9	255.1	241.0	14.16	18.014		
2,700.0	2,692.8	2,655.8	2,641.3	7.9	8.1	-63.51	302.0	-132.0	260.2	245.9	14.36	18.122		
2,755.0	2,747.4	2,710.3	2,694.8	8.1	8.3	-64.08	311.5	-136.3	267.3	252.6	14.63	18.265		
2,800.0	2,792.1	2,754.9	2,738.5	8.3	8.4	-64.53	319.2	-139.9	273.0	258.2	14.86	18.378		
2,850.0	2,841.7	2,804.4	2,787.2	8.4	8.6	-65.00	327.8	-143.8	279.5	264.4	15.11	18.501		
2,900.0	2,891.3	2,853.9	2,835.8	8.6	8.8	-65.45	336.4	-147.7	285.9	270.6	15.36	18.618		
2,945.0	2,936.0	2,898.5	2,879.6	8.8	9.0	-65.84	344.2	-151.2	291.7	276.2	15.58	18.721		
3,000.0	2,990.6	2,953.0	2,933.0	9.0	9.2	-66.30	353.6	-155.5	298.9	283.0	15.86	18.842		
3,040.0	3,030.3	2,992.6	2,971.9	9.1	9.3	-66.61	360.5	-158.6	304.1	288.0	16.06	18.928		
3,100.0	3,089.8	3,052.1	3,030.3	9.3	9.6	-67.07	370.8	-163.3	311.9	295.5	16.37	19.053		
3,135.0	3,124.6	3,086.7	3,064.3	9.4	9.7	-67.33	376.9	-166.1	316.4	299.9	16.55	19.123		
3,200.0	3,189.1	3,151.1	3,127.5	9.7	10.0	-67.78	388.1	-171.2	324.9	308.1	16.88	19.251		
3,230.0	3,218.8	3,180.9	3,156.7	9.8	10.1	-67.99	393.2	-173.5	328.9	311.8	17.03	19.308		
3,300.0	3,288.3	3,250.2	3,224.8	10.0	10.4	-68.44	405.3	-179.0	338.0	320.6	17.39	19.437		
3,325.0	3,313.1	3,275.0	3,249.1	10.1	10.5	-68.60	409.6	-180.9	341.3	323.8	17.52	19.483		
3,400.0	3,387.6	3,349.3	3,322.0	10.4	10.8	-69.05	422.5	-186.8	351.2	333.3	17.90	19.614		
3,420.0	3,407.4	3,369.1	3,341.5	10.5	10.8	-69.17	425.9	-188.4	353.8	335.8	18.01	19.648		
3,500.0	3,486.8	3,448.3	3,419.3	10.8	11.2	-69.61	439.7	-194.6	364.4	345.9	18.42	19.782		
3,515.0	3,501.7	3,463.2	3,433.9	10.9	11.2	-69.69	442.2	-195.8	366.3	347.8	18.50	19.806		
3,600.0	3,586.1	3,547.4	3,516.5	11.2	11.6	-70.14	456.9	-202.5	377.6	358.6	18.93	19.941		
3,610.0	3,596.0	3,557.3	3,526.2	11.2	11.6	-70.19	458.6	-203.3	378.9	359.9	18.99	19.956		
3,700.0	3,685.3	3,646.5	3,613.8	11.6	12.0	-70.63	474.1	-210.3	390.8	371.4	19.45	20.092		
3,705.0	3,690.3	3,651.4	3,618.6	11.6	12.0	-70.65	474.9	-210.7	391.5	372.0	19.48	20.099		
3,800.0	3,784.6	3,745.5	3,711.0	11.9	12.4	-71.09	491.3	-218.1	404.1	384.1	19.97	20.236		
3,895.0	3,878.9	3,839.6	3,803.4	12.3	12.8	-71.49	507.6	-225.6	416.7	396.3	20.46	20.366		
3,900.0	3,883.9	3,844.6	3,808.3	12.3	12.8	-71.51	508.5	-225.9	417.4	396.9	20.49	20.373		
3,990.0	3,973.2	3,933.8	3,895.8	12.7	13.2	-71.88	524.0	-233.0	429.4	408.4	20.95	20.492		
4,000.0	3,983.1	3,943.7	3,905.5	12.7	13.3	-71.92	525.7	-233.8	430.7	409.7	21.00	20.504		
4,085.0	4,067.5	4,027.9	3,988.2	13.0	13.6	-72.24	540.3	-240.4	442.0	420.6	21.45	20.612		
4,100.0	4,082.4	4,042.7	4,002.7	13.1	13.7	-72.29	542.9	-241.6	444.0	422.5	21.52	20.631		
4,180.0	4,161.8	4,126.0	4,084.5	13.4	14.1	-72.60	557.2	-248.1	454.6	432.6	21.96	20.700		
4,198.2	4,179.8	4,147.0	4,105.2	13.5	14.2	-72.69	560.6	-249.7	456.8	434.7	22.07	20.694		
4,200.0	4,181.6	4,149.1	4,107.2	13.5	14.2	-72.70	561.0	-249.8	457.0	434.9	22.08	20.695		
4,275.0	4,256.1	4,235.9	4,193.0	13.8	14.6	-73.17	573.5	-255.5	465.0	442.5	22.53	20.641		
4,300.0	4,281.0	4,265.0	4,221.8	13.9	14.7	-73.33	577.1	-257.2	467.3	444.6	22.67	20.614		
4,370.0	4,350.6	4,346.5	4,302.7	14.2	15.0	-73.75	585.9	-261.2	472.7	449.7	23.04	20.519		
4,400.0	4,380.5	4,381.5	4,337.5	14.3	15.2	-73.93	589.1	-262.6	474.6	451.4	23.19	20.467		
4,465.0	4,445.3	4,457.4	4,413.2	14.5	15.5	-74.33	594.6	-265.1	477.7	454.2	23.48	20.346		
4,500.0	4,480.2	4,498.3	4,454.0	14.6	15.6	-74.54	596.8	-266.1	478.8	455.2	23.62	20.268		
4,560.0	4,540.1	4,568.4	4,524.1	14.8	15.9	-74.90	599.3	-267.3	479.9	456.0	23.83	20.140		
4,600.0	4,580.0	4,615.2	4,570.9	15.0	16.0	-75.15	600.1	-267.6	480.0	456.0	23.93	20.059		
4,655.0	4,635.0	4,674.8	4,630.5	15.1	16.0	-75.46	600.3	-267.7	479.4	455.5	23.98	19.995		
4,700.0	4,679.9	4,719.8	4,675.4	15.3	16.1	-75.66	600.3	-267.7	479.0	455.0	24.03	19.937		
4,750.0	4,729.9	4,769.8	4,725.4	15.4	16.1	-75.83	600.3	-267.7	478.6	454.5	24.09	19.868		
4,800.0	4,779.9	4,819.8	4,775.4	15.6	16.1	-75.95	600.3	-267.7	478.4	454.2	24.16	19.798		
4,845.0	4,824.9	4,864.7	4,820.4	15.7	16.1	-76.02	600.3	-267.7	478.2	454.0	24.23	19.740		
4,898.1	4,878.0	4,917.9	4,873.5	15.7	16.2	-55.17	600.3	-267.7	478.2	453.9	24.31	19.669		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
4,900.0	4,879.9	4,919.7	4,875.4	15.7	16.2	-55.17	600.3	-267.7	478.2	453.9	24.31	19.668	
4,940.0	4,919.9	4,959.7	4,915.4	15.8	16.2	-55.17	600.3	-267.7	478.2	453.8	24.37	19.618	
5,000.0	4,979.9	5,019.7	4,975.4	15.8	16.2	-55.17	600.3	-267.7	478.2	453.7	24.47	19.543	
5,035.0	5,014.9	5,054.7	5,010.4	15.8	16.3	-55.17	600.3	-267.7	478.2	453.6	24.52	19.499	
5,100.0	5,079.9	5,119.7	5,075.4	15.9	16.3	-55.17	600.3	-267.7	478.2	453.5	24.62	19.419	
5,130.0	5,109.9	5,149.7	5,105.4	15.9	16.3	-55.17	600.3	-267.7	478.2	453.5	24.67	19.382	
5,200.0	5,179.9	5,219.7	5,175.4	15.9	16.4	-55.17	600.3	-267.7	478.2	453.4	24.78	19.297	
5,225.0	5,204.9	5,244.7	5,200.4	15.9	16.4	-55.17	600.3	-267.7	478.2	453.3	24.82	19.266	
5,300.0	5,279.9	5,319.7	5,275.4	16.0	16.4	-55.17	600.3	-267.7	478.2	453.2	24.94	19.176	
5,320.0	5,299.9	5,339.7	5,295.4	16.0	16.4	-55.17	600.3	-267.7	478.2	453.2	24.97	19.152	
5,400.0	5,379.9	5,419.7	5,375.4	16.0	16.5	-55.17	600.3	-267.7	478.2	453.1	25.09	19.057	
5,415.0	5,394.9	5,434.7	5,390.4	16.0	16.5	-55.17	600.3	-267.7	478.2	453.0	25.11	19.039	
5,500.0	5,479.9	5,519.7	5,475.4	16.1	16.5	-55.17	600.3	-267.7	478.2	452.9	25.25	18.939	
5,510.0	5,489.9	5,529.7	5,485.4	16.1	16.5	-55.17	600.3	-267.7	478.2	452.9	25.26	18.928	
5,600.0	5,579.9	5,619.7	5,575.4	16.2	16.6	-55.17	600.3	-267.7	478.2	452.8	25.40	18.823	
5,605.0	5,584.9	5,624.7	5,580.4	16.2	16.6	-55.17	600.3	-267.7	478.2	452.8	25.41	18.817	
5,700.0	5,679.9	5,719.7	5,675.4	16.2	16.6	-55.17	600.3	-267.7	478.2	452.6	25.56	18.708	
5,795.0	5,774.9	5,814.7	5,770.4	16.3	16.7	-55.17	600.3	-267.7	478.2	452.5	25.71	18.601	
5,800.0	5,779.9	5,819.7	5,775.4	16.3	16.7	-55.17	600.3	-267.7	478.2	452.4	25.71	18.595	
5,890.0	5,869.9	5,909.7	5,865.4	16.3	16.8	-55.17	600.3	-267.7	478.2	452.3	25.85	18.494	
5,900.0	5,879.9	5,919.7	5,875.4	16.3	16.8	-55.17	600.3	-267.7	478.2	452.3	25.87	18.483	
5,985.0	5,964.9	6,004.7	5,960.4	16.4	16.8	-55.17	600.3	-267.7	478.2	452.2	26.00	18.389	
6,000.0	5,979.9	6,019.7	5,975.4	16.4	16.8	-55.17	600.3	-267.7	478.2	452.1	26.03	18.372	
6,080.0	6,059.9	6,099.7	6,055.4	16.5	16.9	-55.17	600.3	-267.7	478.2	452.0	26.15	18.285	
6,100.0	6,079.9	6,119.7	6,075.4	16.5	16.9	-55.17	600.3	-267.7	478.2	452.0	26.18	18.263	
6,175.0	6,154.9	6,194.7	6,150.4	16.5	16.9	-55.17	600.3	-267.7	478.2	451.9	26.30	18.182	
6,200.0	6,179.9	6,219.7	6,175.4	16.5	16.9	-55.17	600.3	-267.7	478.2	451.8	26.34	18.155	
6,270.0	6,249.9	6,289.7	6,245.4	16.6	17.0	-55.17	600.3	-267.7	478.2	451.7	26.45	18.080	
6,300.0	6,279.9	6,319.7	6,275.4	16.6	17.0	-55.17	600.3	-267.7	478.2	451.7	26.49	18.048	
6,365.0	6,344.9	6,384.7	6,340.4	16.6	17.0	-55.17	600.3	-267.7	478.2	451.6	26.59	17.979	
6,400.0	6,379.9	6,419.7	6,375.4	16.7	17.1	-55.17	600.3	-267.7	478.2	451.5	26.65	17.943	
6,460.0	6,439.9	6,479.7	6,435.4	16.7	17.1	-55.17	600.3	-267.7	478.2	451.4	26.74	17.880	
6,500.0	6,479.9	6,519.7	6,475.4	16.7	17.1	-55.17	600.3	-267.7	478.2	451.4	26.81	17.838	
6,555.0	6,534.9	6,574.7	6,530.4	16.7	17.2	-55.17	600.3	-267.7	478.2	451.3	26.89	17.782	
6,600.0	6,579.9	6,619.7	6,575.4	16.8	17.2	-55.17	600.3	-267.7	478.2	451.2	26.96	17.735	
6,650.0	6,629.9	6,669.7	6,625.4	16.8	17.2	-55.17	600.3	-267.7	478.2	451.1	27.04	17.684	
6,700.0	6,679.9	6,719.7	6,675.4	16.8	17.2	-55.17	600.3	-267.7	478.2	451.0	27.12	17.633	
6,745.0	6,724.9	6,764.7	6,720.4	16.9	17.3	-55.17	600.3	-267.7	478.2	451.0	27.19	17.588	
6,800.0	6,779.9	6,819.7	6,775.4	16.9	17.3	-55.17	600.3	-267.7	478.2	450.9	27.27	17.533	
6,840.0	6,819.9	6,859.7	6,815.4	16.9	17.3	-55.17	600.3	-267.7	478.2	450.8	27.33	17.493	
6,900.0	6,879.9	6,919.7	6,875.4	17.0	17.4	-55.17	600.3	-267.7	478.2	450.7	27.43	17.433	
6,935.0	6,914.9	6,954.7	6,910.4	17.0	17.4	-55.17	600.3	-267.7	478.2	450.7	27.48	17.398	
7,000.0	6,979.9	7,019.7	6,975.4	17.0	17.4	-55.17	600.3	-267.7	478.2	450.6	27.58	17.335	
7,030.0	7,009.9	7,049.7	7,005.4	17.0	17.4	-55.17	600.3	-267.7	478.2	450.5	27.63	17.305	
7,100.0	7,079.9	7,119.7	7,075.4	17.1	17.5	-55.17	600.3	-267.7	478.2	450.4	27.74	17.237	
7,125.0	7,104.9	7,144.7	7,100.4	17.1	17.5	-55.17	600.3	-267.7	478.2	450.4	27.78	17.213	
7,200.0	7,179.9	7,219.7	7,175.4	17.2	17.6	-55.17	600.3	-267.7	478.2	450.3	27.90	17.141	
7,220.0	7,199.9	7,239.7	7,195.4	17.2	17.6	-55.17	600.3	-267.7	478.2	450.2	27.93	17.122	
7,300.0	7,279.9	7,319.7	7,275.4	17.2	17.6	-55.17	600.3	-267.7	478.2	450.1	28.05	17.046	
7,315.0	7,294.9	7,334.7	7,290.4	17.2	17.6	-55.17	600.3	-267.7	478.2	450.1	28.08	17.031	
7,400.0	7,379.9	7,419.7	7,375.4	17.3	17.7	-55.17	600.3	-267.7	478.2	450.0	28.21	16.951	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
7,410.0	7,389.9	7,429.7	7,385.4	17.3	17.7	-55.17	600.3	-267.7	478.2	449.9	28.22	16.942
7,500.0	7,479.9	7,519.7	7,475.4	17.3	17.7	-55.17	600.3	-267.7	478.2	449.8	28.36	16.858
7,505.0	7,484.9	7,524.7	7,480.4	17.3	17.7	-55.17	600.3	-267.7	478.2	449.8	28.37	16.854
7,600.0	7,579.9	7,619.7	7,575.4	17.4	17.8	-55.17	600.3	-267.7	478.2	449.6	28.52	16.766
7,695.0	7,674.9	7,714.7	7,670.4	17.5	17.9	-55.17	600.3	-267.7	478.2	449.5	28.67	16.679
7,700.0	7,679.9	7,719.7	7,675.4	17.5	17.9	-55.17	600.3	-267.7	478.2	449.5	28.68	16.675
7,790.0	7,769.9	7,809.7	7,765.4	17.5	17.9	-55.17	600.3	-267.7	478.2	449.3	28.82	16.594
7,800.0	7,779.9	7,819.7	7,775.4	17.5	17.9	-55.17	600.3	-267.7	478.2	449.3	28.83	16.585
7,885.0	7,864.9	7,904.7	7,860.4	17.6	18.0	-55.17	600.3	-267.7	478.2	449.2	28.96	16.509
7,900.0	7,879.9	7,919.7	7,875.4	17.6	18.0	-55.17	600.3	-267.7	478.2	449.2	28.99	16.495
7,980.0	7,959.9	7,999.7	7,955.4	17.7	18.0	-55.17	600.3	-267.7	478.2	449.1	29.11	16.425
8,000.0	7,979.9	8,019.7	7,975.4	17.7	18.0	-55.17	600.3	-267.7	478.2	449.0	29.14	16.407
8,075.0	8,054.9	8,094.7	8,050.4	17.7	18.1	-55.17	600.3	-267.7	478.2	448.9	29.26	16.341
8,100.0	8,079.9	8,119.7	8,075.4	17.7	18.1	-55.17	600.3	-267.7	478.2	448.9	29.30	16.320
8,170.0	8,149.9	8,189.7	8,145.4	17.8	18.2	-55.17	600.3	-267.7	478.2	448.8	29.41	16.259
8,200.0	8,179.9	8,219.7	8,175.4	17.8	18.2	-55.17	600.3	-267.7	478.2	448.7	29.46	16.233
8,265.0	8,244.9	8,284.7	8,240.4	17.8	18.2	-55.17	600.3	-267.7	478.2	448.6	29.56	16.178
8,300.0	8,279.9	8,319.7	8,275.4	17.9	18.2	-55.17	600.3	-267.7	478.2	448.6	29.61	16.148
8,360.0	8,339.9	8,379.7	8,335.4	17.9	18.3	-55.17	600.3	-267.7	478.2	448.5	29.71	16.097
8,400.0	8,379.9	8,419.7	8,375.4	17.9	18.3	-55.17	600.3	-267.7	478.2	448.4	29.77	16.063
8,429.2	8,409.0	8,448.9	8,404.5	17.9	18.3	-55.17	600.3	-267.7	478.2	448.4	29.80	16.045
8,450.0	8,429.9	8,469.7	8,425.4	17.9	18.3	124.38	600.3	-267.7	478.4	448.6	29.83	16.038
8,455.0	8,434.9	8,474.7	8,430.4	18.0	18.3	124.39	600.3	-267.7	478.5	448.7	29.84	16.037
8,500.0	8,479.7	8,519.6	8,475.2	18.0	18.4	124.58	600.3	-267.7	480.6	450.7	29.95	16.048
8,550.0	8,529.0	8,568.9	8,524.5	18.1	18.4	124.99	600.3	-267.7	485.4	455.3	30.13	16.112
8,600.0	8,577.4	8,617.2	8,572.9	18.1	18.4	125.55	600.3	-267.7	492.9	462.5	30.36	16.232
8,645.0	8,619.8	8,659.7	8,615.3	18.2	18.5	126.14	600.3	-267.7	501.9	471.3	30.62	16.392
8,650.0	8,624.5	8,664.3	8,620.0	18.2	18.5	126.21	600.3	-267.7	503.1	472.4	30.65	16.413
8,700.0	8,669.9	8,709.8	8,665.4	18.3	18.5	126.88	600.3	-267.7	516.2	485.3	30.99	16.661
8,740.0	8,704.9	8,744.7	8,700.4	18.3	18.5	127.38	600.3	-267.7	529.0	497.7	31.28	16.911
8,750.0	8,713.4	8,753.2	8,708.9	18.3	18.5	127.49	600.3	-267.7	532.5	501.1	31.36	16.982
8,800.0	8,754.5	8,794.4	8,750.0	18.4	18.5	127.94	600.3	-267.7	551.9	520.2	31.75	17.381
8,835.0	8,781.8	8,821.6	8,777.3	18.5	18.6	128.11	600.3	-267.7	567.5	535.4	32.04	17.711
8,850.0	8,793.1	8,832.9	8,788.6	18.5	18.6	128.14	600.3	-267.7	574.6	542.5	32.17	17.865
8,900.0	8,828.7	8,868.5	8,824.2	18.6	18.6	127.98	600.3	-267.7	600.6	568.0	32.58	18.435
8,930.0	8,848.5	8,888.4	8,844.0	18.6	18.6	127.68	600.3	-267.7	617.7	584.9	32.82	18.819
8,950.0	8,861.1	8,900.9	8,856.6	18.6	18.6	127.38	600.3	-267.7	629.8	596.8	32.99	19.093
9,000.0	8,890.0	8,929.9	8,885.5	18.7	18.6	126.19	600.3	-267.7	662.0	628.7	33.37	19.838
9,025.0	8,903.1	8,943.0	8,898.6	18.7	18.6	125.33	600.3	-267.7	679.2	645.7	33.55	20.243
9,050.0	8,915.3	8,955.2	8,910.8	18.7	18.6	124.27	600.3	-267.7	697.1	663.4	33.73	20.667
9,100.0	8,936.8	8,976.6	8,932.3	18.8	18.7	121.44	600.3	-267.7	734.8	700.7	34.06	21.574
9,120.0	8,944.2	8,984.1	8,939.7	18.8	18.7	119.99	600.3	-267.7	750.5	716.3	34.18	21.958
9,150.0	8,954.2	8,994.1	8,949.7	18.8	18.7	117.45	600.3	-267.7	774.7	740.3	34.35	22.553
9,200.0	8,967.5	9,007.4	8,963.0	18.9	18.7	112.03	600.3	-267.7	816.5	781.9	34.61	23.594
9,215.0	8,970.7	9,010.5	8,966.2	18.9	18.7	110.09	600.3	-267.7	829.4	794.7	34.68	23.918
9,250.0	8,976.5	9,016.4	8,972.0	18.9	18.7	104.92	600.3	-267.7	859.9	825.0	34.83	24.690
9,300.0	8,981.3	10,397.7	9,786.1	18.9	19.9	153.97	-212.9	-274.4	900.5	865.3	35.24	25.555
9,310.0	8,981.7	10,407.7	9,786.1	18.9	19.9	153.98	-222.9	-274.5	900.1	864.8	35.28	25.513
9,328.8	8,982.0	10,426.5	9,786.1	18.9	19.9	153.98	-241.7	-274.7	899.9	864.5	35.37	25.443
9,328.9	8,982.0	10,426.5	9,786.1	18.9	19.9	153.98	-241.8	-274.7	899.9	864.5	35.37	25.443
9,400.0	8,982.0	10,497.7	9,786.2	18.9	19.9	153.98	-312.9	-275.3	899.9	864.2	35.70	25.208

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,405.0	8,982.0	10,502.7	9,786.2	18.9	19.9	153.98	-317.9	-275.3	899.9	864.1	35.72	25.190		
9,500.0	8,982.1	10,597.7	9,786.2	19.0	20.0	153.98	-412.9	-276.1	899.9	863.6	36.22	24.843		
9,595.0	8,982.1	10,692.7	9,786.3	19.0	20.1	153.98	-507.9	-276.9	899.9	863.1	36.78	24.468		
9,600.0	8,982.1	10,697.7	9,786.3	19.0	20.1	153.98	-512.9	-276.9	899.9	863.1	36.81	24.448		
9,690.0	8,982.2	10,787.7	9,786.3	19.1	20.2	153.98	-602.9	-277.7	899.9	862.5	37.38	24.071		
9,700.0	8,982.2	10,797.7	9,786.3	19.1	20.2	153.98	-612.9	-277.7	899.9	862.4	37.45	24.030		
9,785.0	8,982.2	10,882.7	9,786.4	19.1	20.3	153.98	-697.9	-278.4	899.9	861.8	38.04	23.657		
9,800.0	8,982.2	10,897.7	9,786.4	19.1	20.3	153.98	-712.9	-278.6	899.9	861.7	38.14	23.592		
9,880.0	8,982.3	10,977.7	9,786.4	19.2	20.4	153.98	-792.9	-279.2	899.9	861.1	38.74	23.229		
9,900.0	8,982.3	10,997.7	9,786.4	19.2	20.4	153.98	-812.9	-279.4	899.9	861.0	38.89	23.140		
9,975.0	8,982.3	11,072.7	9,786.5	19.2	20.5	153.98	-887.9	-280.0	899.9	860.4	39.48	22.792		
10,000.0	8,982.3	11,097.7	9,786.5	19.3	20.5	153.98	-912.9	-280.2	899.9	860.2	39.68	22.678		
10,070.0	8,982.3	11,167.7	9,786.5	19.3	20.6	153.98	-982.9	-280.8	899.9	859.6	40.27	22.347		
10,100.0	8,982.4	11,197.7	9,786.5	19.4	20.7	153.98	-1,012.9	-281.1	899.9	859.4	40.52	22.209		
10,165.0	8,982.4	11,262.7	9,786.6	19.4	20.8	153.98	-1,077.9	-281.6	899.9	858.8	41.09	21.899		
10,200.0	8,982.4	11,297.7	9,786.6	19.5	20.9	153.98	-1,112.9	-281.9	899.9	858.5	41.40	21.736		
10,260.0	8,982.4	11,357.7	9,786.6	19.6	21.0	153.98	-1,172.9	-282.4	899.9	858.0	41.95	21.450		
10,300.0	8,982.5	11,397.7	9,786.7	19.6	21.1	153.98	-1,212.9	-282.7	899.9	857.6	42.32	21.264		
10,355.0	8,982.5	11,452.7	9,786.7	19.7	21.2	153.98	-1,267.9	-283.2	899.9	857.1	42.85	21.003		
10,400.0	8,982.5	11,497.7	9,786.7	19.8	21.4	153.98	-1,312.9	-283.5	899.9	856.6	43.28	20.794		
10,450.0	8,982.5	11,547.7	9,786.7	19.9	21.5	153.98	-1,362.9	-283.9	899.9	856.1	43.77	20.558		
10,500.0	8,982.5	11,597.7	9,786.8	20.0	21.7	153.98	-1,412.9	-284.4	899.9	855.7	44.27	20.328		
10,545.0	8,982.6	11,642.7	9,786.8	20.1	21.8	153.98	-1,457.9	-284.7	899.9	855.2	44.73	20.118		
10,600.0	8,982.6	11,697.7	9,786.8	20.2	22.0	153.98	-1,512.9	-285.2	899.9	854.6	45.29	19.868		
10,640.0	8,982.6	11,737.7	9,786.8	20.3	22.1	153.98	-1,552.9	-285.5	899.9	854.2	45.72	19.685		
10,700.0	8,982.6	11,797.7	9,786.9	20.5	22.4	153.98	-1,612.8	-286.0	899.9	853.6	46.35	19.416		
10,735.0	8,982.7	11,832.7	9,786.9	20.6	22.5	153.98	-1,647.8	-286.3	899.9	853.2	46.73	19.259		
10,800.0	8,982.7	11,897.7	9,786.9	20.9	22.8	153.98	-1,712.8	-286.8	899.9	852.5	47.43	18.973		
10,830.0	8,982.7	11,927.7	9,786.9	21.0	22.9	153.98	-1,742.8	-287.1	899.9	852.2	47.76	18.841		
10,900.0	8,982.7	11,997.7	9,787.0	21.2	23.2	153.98	-1,812.8	-287.7	899.9	851.4	48.54	18.540		
10,925.0	8,982.7	12,022.7	9,787.0	21.4	23.3	153.98	-1,837.8	-287.9	899.9	851.1	48.82	18.432		
11,000.0	8,982.8	12,097.7	9,787.0	21.7	23.7	153.98	-1,912.8	-288.5	900.0	850.3	49.67	18.117		
11,020.0	8,982.8	12,117.7	9,787.0	21.8	23.8	153.98	-1,932.8	-288.7	900.0	850.0	49.91	18.033		
11,100.0	8,982.8	12,197.7	9,787.1	22.2	24.2	153.98	-2,012.8	-289.3	900.0	849.1	50.83	17.705		
11,115.0	8,982.8	12,212.7	9,787.1	22.2	24.3	153.98	-2,027.8	-289.5	900.0	849.0	51.01	17.644		
11,200.0	8,982.9	12,297.7	9,787.1	22.7	24.7	153.98	-2,112.8	-290.2	900.0	848.0	52.01	17.304		
11,210.0	8,982.9	12,307.7	9,787.1	22.7	24.8	153.98	-2,122.8	-290.2	900.0	847.8	52.13	17.264		
11,300.0	8,982.9	12,397.7	9,787.2	23.2	25.3	153.98	-2,212.8	-291.0	900.0	846.8	53.21	16.915		
11,305.0	8,982.9	12,402.7	9,787.2	23.2	25.3	153.98	-2,217.8	-291.0	900.0	846.7	53.27	16.896		
11,400.0	8,983.0	12,497.7	9,787.2	23.8	25.9	153.98	-2,312.8	-291.8	900.0	845.6	54.42	16.537		
11,495.0	8,983.0	12,592.7	9,787.3	24.3	26.4	153.98	-2,407.8	-292.6	900.0	844.4	55.59	16.188		
11,500.0	8,983.0	12,597.7	9,787.3	24.4	26.4	153.98	-2,412.8	-292.6	900.0	844.3	55.66	16.171		
11,590.0	8,983.1	12,687.7	9,787.3	24.9	27.0	153.98	-2,502.8	-293.4	900.0	843.2	56.78	15.850		
11,600.0	8,983.1	12,697.7	9,787.3	25.0	27.0	153.98	-2,512.8	-293.5	900.0	843.1	56.91	15.816		
11,685.0	8,983.1	12,782.7	9,787.4	25.5	27.6	153.98	-2,597.8	-294.2	900.0	842.0	57.98	15.522		
11,700.0	8,983.1	12,797.7	9,787.4	25.6	27.6	153.98	-2,612.8	-294.3	900.0	841.8	58.17	15.472		
11,780.0	8,983.1	12,877.7	9,787.4	26.1	28.1	153.98	-2,692.8	-295.0	900.0	840.8	59.19	15.204		
11,800.0	8,983.2	12,897.7	9,787.4	26.2	28.3	153.98	-2,712.8	-295.1	900.0	840.5	59.45	15.139		
11,875.0	8,983.2	12,972.7	9,787.5	26.7	28.7	153.98	-2,787.8	-295.7	900.0	839.6	60.42	14.896		
11,900.0	8,983.2	12,997.7	9,787.5	26.8	28.9	153.98	-2,812.8	-296.0	900.0	839.3	60.74	14.817		
11,970.0	8,983.2	13,067.7	9,787.5	27.3	29.3	153.98	-2,882.8	-296.5	900.0	838.4	61.65	14.597		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)		
12,000.0	8,983.2	13,097.7	9,787.5	27.5	29.5	153.98	-2,912.8	-296.8	900.0	838.0	62.05	14.505
12,065.0	8,983.3	13,162.7	9,787.6	27.9	30.0	153.98	-2,977.8	-297.3	900.0	837.1	62.90	14.308
12,100.0	8,983.3	13,197.7	9,787.6	28.1	30.2	153.98	-3,012.8	-297.6	900.0	836.7	63.36	14.204
12,160.0	8,983.3	13,257.7	9,787.6	28.5	30.6	153.98	-3,072.8	-298.1	900.0	835.9	64.16	14.028
12,200.0	8,983.3	13,297.7	9,787.6	28.8	30.8	153.98	-3,112.8	-298.4	900.0	835.3	64.69	13.913
12,255.0	8,983.4	13,352.7	9,787.7	29.2	31.2	153.98	-3,167.8	-298.9	900.0	834.6	65.43	13.756
12,300.0	8,983.4	13,397.7	9,787.7	29.5	31.5	153.98	-3,212.8	-299.3	900.0	834.0	66.03	13.631
12,350.0	8,983.4	13,447.7	9,787.7	29.8	31.8	153.98	-3,262.8	-299.7	900.0	833.3	66.70	13.493
12,400.0	8,983.4	13,497.7	9,787.8	30.1	32.2	153.98	-3,312.8	-300.1	900.0	832.7	67.38	13.358
12,445.0	8,983.5	13,542.7	9,787.8	30.4	32.5	153.98	-3,357.8	-300.5	900.0	832.0	67.99	13.238
12,500.0	8,983.5	13,597.7	9,787.8	30.8	32.8	153.98	-3,412.8	-300.9	900.0	831.3	68.73	13.095
12,540.0	8,983.5	13,637.7	9,787.8	31.1	33.1	153.98	-3,452.8	-301.2	900.0	830.8	69.28	12.992
12,600.0	8,983.5	13,697.7	9,787.9	31.5	33.5	153.98	-3,512.8	-301.7	900.0	829.9	70.10	12.840
12,635.0	8,983.5	13,732.7	9,787.9	31.7	33.7	153.98	-3,547.8	-302.0	900.0	829.5	70.58	12.752
12,700.0	8,983.6	13,797.7	9,787.9	32.2	34.2	153.98	-3,612.8	-302.6	900.1	828.6	71.47	12.593
12,730.0	8,983.6	13,827.7	9,787.9	32.4	34.4	153.98	-3,642.8	-302.8	900.1	828.2	71.89	12.521
12,800.0	8,983.6	13,897.7	9,788.0	32.9	34.9	153.98	-3,712.8	-303.4	900.1	827.2	72.85	12.355
12,825.0	8,983.6	13,922.7	9,788.0	33.1	35.0	153.98	-3,737.8	-303.6	900.1	826.9	73.20	12.296
12,900.0	8,983.7	13,997.7	9,788.0	33.6	35.6	153.98	-3,812.8	-304.2	900.1	825.8	74.24	12.124
12,920.0	8,983.7	14,017.7	9,788.0	33.7	35.7	153.98	-3,832.8	-304.4	900.1	825.5	74.52	12.078
13,000.0	8,983.7	14,097.7	9,788.1	34.3	36.2	153.98	-3,912.8	-305.1	900.1	824.4	75.64	11.900
13,015.0	8,983.7	14,112.7	9,788.1	34.4	36.3	153.98	-3,927.8	-305.2	900.1	824.2	75.85	11.867
13,100.0	8,983.8	14,197.7	9,788.1	35.0	36.9	153.98	-4,012.8	-305.9	900.1	823.0	77.04	11.684
13,110.0	8,983.8	14,207.7	9,788.1	35.0	37.0	153.98	-4,022.8	-306.0	900.1	822.9	77.18	11.662
13,200.0	8,983.8	14,297.7	9,788.2	35.7	37.6	153.98	-4,112.8	-306.7	900.1	821.6	78.44	11.474
13,205.0	8,983.8	14,302.7	9,788.2	35.7	37.7	153.98	-4,117.8	-306.8	900.1	821.6	78.52	11.464
13,300.0	8,983.9	14,397.7	9,788.2	36.4	38.3	153.98	-4,212.8	-307.5	900.1	820.2	79.86	11.271
13,395.0	8,983.9	14,492.7	9,788.3	37.1	39.0	153.98	-4,307.8	-308.3	900.1	818.9	81.21	11.084
13,400.0	8,983.9	14,497.7	9,788.3	37.1	39.0	153.98	-4,312.8	-308.4	900.1	818.8	81.28	11.074
13,490.0	8,983.9	14,587.7	9,788.3	37.7	39.7	153.98	-4,402.8	-309.1	900.1	817.5	82.56	10.903
13,500.0	8,983.9	14,597.7	9,788.3	37.8	39.7	153.98	-4,412.8	-309.2	900.1	817.4	82.70	10.884
13,585.0	8,984.0	14,682.7	9,788.4	38.4	40.3	153.98	-4,497.7	-309.9	900.1	816.2	83.92	10.726
13,600.0	8,984.0	14,697.7	9,788.4	38.5	40.5	153.98	-4,512.7	-310.0	900.1	816.0	84.13	10.699
13,680.0	8,984.0	14,777.7	9,788.4	39.1	41.0	153.98	-4,592.7	-310.7	900.1	814.8	85.28	10.555
13,700.0	8,984.0	14,797.7	9,788.4	39.2	41.2	153.98	-4,612.7	-310.9	900.1	814.5	85.56	10.520
13,775.0	8,984.1	14,872.7	9,788.5	39.8	41.7	153.98	-4,687.7	-311.5	900.1	813.5	86.64	10.389
13,800.0	8,984.1	14,897.7	9,788.5	40.0	41.9	153.98	-4,712.7	-311.7	900.1	813.1	87.00	10.346
13,870.0	8,984.1	14,967.7	9,788.5	40.5	42.4	153.98	-4,782.7	-312.3	900.1	812.1	88.01	10.227
13,900.0	8,984.1	14,997.7	9,788.5	40.7	42.6	153.98	-4,812.7	-312.5	900.1	811.7	88.44	10.177
13,965.0	8,984.2	15,062.7	9,788.6	41.1	43.1	153.98	-4,877.7	-313.0	900.1	810.7	89.38	10.070
14,000.0	8,984.2	15,097.7	9,788.6	41.4	43.3	153.98	-4,912.7	-313.3	900.1	810.2	89.89	10.014
14,060.0	8,984.2	15,157.7	9,788.6	41.8	43.7	153.98	-4,972.7	-313.8	900.1	809.4	90.76	9.918
14,100.0	8,984.2	15,197.7	9,788.6	42.1	44.0	153.98	-5,012.7	-314.2	900.1	808.8	91.34	9.855
14,155.0	8,984.3	15,252.7	9,788.7	42.5	44.4	153.98	-5,067.7	-314.6	900.1	808.0	92.14	9.769
14,200.0	8,984.3	15,297.7	9,788.7	42.8	44.7	153.98	-5,112.7	-315.0	900.1	807.3	92.79	9.700
14,250.0	8,984.3	15,347.7	9,788.7	43.2	45.1	153.98	-5,162.7	-315.4	900.1	806.6	93.52	9.625
14,300.0	8,984.3	15,397.7	9,788.7	43.6	45.5	153.98	-5,212.7	-315.8	900.1	805.9	94.25	9.550
14,345.0	8,984.3	15,442.7	9,788.8	43.9	45.8	153.98	-5,257.7	-316.2	900.1	805.2	94.91	9.484
14,400.0	8,984.4	15,497.7	9,788.8	44.3	46.2	153.98	-5,312.7	-316.6	900.2	804.4	95.71	9.405
14,440.0	8,984.4	15,537.7	9,788.8	44.6	46.5	153.98	-5,352.7	-317.0	900.2	803.9	96.30	9.348
14,500.0	8,984.4	15,597.7	9,788.9	45.0	46.9	153.98	-5,412.7	-317.5	900.2	803.0	97.18	9.263

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,535.0	8,984.4	15,632.7	9,788.9	45.3	47.2	153.98	-5,447.7	-317.8	900.2	802.5	97.69	9.214		
14,600.0	8,984.5	15,697.7	9,788.9	45.8	47.6	153.98	-5,512.7	-318.3	900.2	801.5	98.64	9.125		
14,630.0	8,984.5	15,727.7	9,788.9	46.0	47.8	153.98	-5,542.7	-318.5	900.2	801.1	99.08	9.085		
14,700.0	8,984.5	15,797.7	9,789.0	46.5	48.4	153.98	-5,612.7	-319.1	900.2	800.1	100.11	8.992		
14,725.0	8,984.5	15,822.7	9,789.0	46.7	48.5	153.98	-5,637.7	-319.3	900.2	799.7	100.48	8.959		
14,800.0	8,984.6	15,897.7	9,789.0	47.2	49.1	153.98	-5,712.7	-320.0	900.2	798.6	101.59	8.861		
14,820.0	8,984.6	15,917.7	9,789.0	47.4	49.2	153.98	-5,732.7	-320.1	900.2	798.3	101.88	8.836		
14,900.0	8,984.6	15,997.7	9,789.1	47.9	49.8	153.98	-5,812.7	-320.8	900.2	797.1	103.06	8.734		
14,915.0	8,984.6	16,012.7	9,789.1	48.1	49.9	153.98	-5,827.7	-320.9	900.2	796.9	103.28	8.716		
15,000.0	8,984.6	16,097.7	9,789.1	48.7	50.5	153.98	-5,912.7	-321.6	900.2	795.6	104.54	8.611		
15,010.0	8,984.7	16,107.7	9,789.1	48.8	50.6	153.98	-5,922.7	-321.7	900.2	795.5	104.69	8.599		
15,100.0	8,984.7	16,197.7	9,789.2	49.4	51.3	153.98	-6,012.7	-322.4	900.2	794.2	106.02	8.491		
15,105.0	8,984.7	16,202.7	9,789.2	49.5	51.3	153.98	-6,017.7	-322.5	900.2	794.1	106.09	8.485		
15,200.0	8,984.7	16,297.7	9,789.2	50.2	52.0	153.98	-6,112.7	-323.3	900.2	792.7	107.50	8.374		
15,295.0	8,984.8	16,392.7	9,789.3	50.9	52.7	153.98	-6,207.7	-324.1	900.2	791.3	108.91	8.265		
15,300.0	8,984.8	16,397.7	9,789.3	50.9	52.7	153.98	-6,212.7	-324.1	900.2	791.2	108.99	8.260		
15,390.0	8,984.8	16,487.7	9,789.3	51.6	53.4	153.98	-6,302.7	-324.8	900.2	789.9	110.32	8.160		
15,400.0	8,984.8	16,497.7	9,789.3	51.6	53.5	153.98	-6,312.7	-324.9	900.2	789.7	110.47	8.149		
15,485.0	8,984.9	16,582.7	9,789.4	52.3	54.1	153.98	-6,397.7	-325.6	900.2	788.5	111.74	8.056		
15,500.0	8,984.9	16,597.7	9,789.4	52.4	54.2	153.98	-6,412.7	-325.7	900.2	788.3	111.96	8.040		
15,580.0	8,984.9	16,677.7	9,789.4	53.0	54.8	153.98	-6,492.7	-326.4	900.2	787.1	113.15	7.956		
15,600.0	8,984.9	16,697.7	9,789.4	53.1	54.9	153.98	-6,512.7	-326.6	900.2	786.8	113.45	7.935		
15,675.0	8,985.0	16,772.7	9,789.5	53.7	55.5	153.98	-6,587.7	-327.2	900.2	785.7	114.57	7.857		
15,700.0	8,985.0	16,797.7	9,789.5	53.8	55.7	153.98	-6,612.7	-327.4	900.2	785.3	114.95	7.832		
15,770.0	8,985.0	16,867.7	9,789.5	54.4	56.2	153.98	-6,682.7	-328.0	900.2	784.2	115.99	7.761		
15,800.0	8,985.0	16,897.7	9,789.5	54.6	56.4	153.98	-6,712.7	-328.2	900.2	783.8	116.44	7.731		
15,865.0	8,985.1	16,962.7	9,789.6	55.1	56.9	153.98	-6,777.7	-328.8	900.2	782.8	117.41	7.667		
15,900.0	8,985.1	16,997.7	9,789.6	55.3	57.2	153.98	-6,812.7	-329.1	900.2	782.3	117.94	7.633		
15,960.0	8,985.1	17,057.7	9,789.6	55.8	57.6	153.98	-6,872.7	-329.6	900.2	781.4	118.84	7.575		
16,000.0	8,985.1	17,097.7	9,789.6	56.1	57.9	153.98	-6,912.7	-329.9	900.2	780.8	119.44	7.538		
16,055.0	8,985.1	17,152.7	9,789.7	56.5	58.3	153.98	-6,967.7	-330.3	900.2	780.0	120.26	7.486		
16,100.0	8,985.2	17,197.7	9,789.7	56.8	58.6	153.98	-7,012.7	-330.7	900.3	779.3	120.94	7.444		
16,150.0	8,985.2	17,247.7	9,789.7	57.2	59.0	153.98	-7,062.7	-331.1	900.3	778.6	121.69	7.398		
16,200.0	8,985.2	17,297.7	9,789.7	57.6	59.4	153.98	-7,112.7	-331.5	900.3	777.8	122.44	7.353		
16,245.0	8,985.2	17,342.7	9,789.8	57.9	59.7	153.98	-7,157.7	-331.9	900.3	777.1	123.11	7.312		
16,300.0	8,985.3	17,397.7	9,789.8	58.3	60.1	153.98	-7,212.7	-332.4	900.3	776.3	123.94	7.264		
16,340.0	8,985.3	17,437.7	9,789.8	58.6	60.4	153.98	-7,252.7	-332.7	900.3	775.7	124.54	7.229		
16,400.0	8,985.3	17,497.7	9,789.8	59.0	60.9	153.98	-7,312.7	-333.2	900.3	774.8	125.44	7.177		
16,435.0	8,985.3	17,532.7	9,789.9	59.3	61.1	153.98	-7,347.7	-333.5	900.3	774.3	125.97	7.147		
16,500.0	8,985.3	17,597.7	9,789.9	59.8	61.6	153.98	-7,412.6	-334.0	900.3	773.3	126.95	7.092		
16,530.0	8,985.4	17,627.7	9,789.9	60.0	61.8	153.98	-7,442.6	-334.3	900.3	772.9	127.40	7.066		
16,600.0	8,985.4	17,697.7	9,790.0	60.5	62.3	153.98	-7,512.6	-334.9	900.3	771.8	128.46	7.008		
16,625.0	8,985.4	17,722.7	9,790.0	60.7	62.5	153.98	-7,537.6	-335.1	900.3	771.4	128.83	6.988		
16,700.0	8,985.4	17,797.7	9,790.0	61.3	63.1	153.98	-7,612.6	-335.7	900.3	770.3	129.97	6.927		
16,720.0	8,985.5	17,817.7	9,790.0	61.4	63.2	153.98	-7,632.6	-335.8	900.3	770.0	130.27	6.911		
16,800.0	8,985.5	17,897.7	9,790.1	62.0	63.8	153.98	-7,712.6	-336.5	900.3	768.8	131.48	6.848		
16,815.0	8,985.5	17,912.7	9,790.1	62.1	63.9	153.98	-7,727.6	-336.6	900.3	768.6	131.70	6.836		
16,900.0	8,985.5	17,997.7	9,790.1	62.8	64.6	153.98	-7,812.6	-337.3	900.3	767.3	132.99	6.770		
16,910.0	8,985.5	18,007.7	9,790.1	62.8	64.6	153.98	-7,822.6	-337.4	900.3	767.2	133.14	6.762		
17,000.0	8,985.6	18,097.7	9,790.2	63.5	65.3	153.98	-7,912.6	-338.2	900.3	765.8	134.50	6.694		
17,005.0	8,985.6	18,102.7	9,790.2	63.6	65.3	153.98	-7,917.6	-338.2	900.3	765.7	134.57	6.690		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
Measured	Reference	Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum		Separation	Warning	
Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
17,100.0	8,985.6	18,197.7	9,790.2	64.3	66.1	153.98	-8,012.6	-339.0	900.3	764.3	136.01	6.619		
17,195.0	8,985.7	18,292.7	9,790.3	65.0	66.8	153.98	-8,107.6	-339.8	900.3	762.9	137.45	6.550		
17,200.0	8,985.7	18,297.7	9,790.3	65.0	66.8	153.98	-8,112.6	-339.8	900.3	762.8	137.53	6.546		
17,290.0	8,985.7	18,387.7	9,790.3	65.7	67.5	153.98	-8,202.6	-340.6	900.3	761.4	138.89	6.482		
17,300.0	8,985.7	18,397.7	9,790.3	65.8	67.5	153.98	-8,212.6	-340.6	900.3	761.3	139.04	6.475		
17,385.0	8,985.8	18,482.7	9,790.4	66.4	68.2	153.98	-8,297.6	-341.4	900.3	760.0	140.33	6.416		
17,400.0	8,985.8	18,497.7	9,790.4	66.5	68.3	153.98	-8,312.6	-341.5	900.3	759.8	140.56	6.405		
17,480.0	8,985.8	18,577.7	9,790.4	67.1	68.9	153.99	-8,392.6	-342.1	900.3	758.6	141.77	6.351		
17,500.0	8,985.8	18,597.7	9,790.4	67.3	69.0	153.99	-8,412.6	-342.3	900.3	758.3	142.08	6.337		
17,575.0	8,985.8	18,672.7	9,790.5	67.8	69.6	153.99	-8,487.6	-342.9	900.3	757.1	143.22	6.287		
17,600.0	8,985.9	18,697.7	9,790.5	68.0	69.8	153.99	-8,512.6	-343.1	900.3	756.7	143.59	6.270		
17,670.0	8,985.9	18,767.7	9,790.5	68.5	70.3	153.99	-8,582.6	-343.7	900.3	755.7	144.66	6.224		
17,700.0	8,985.9	18,797.7	9,790.5	68.8	70.5	153.99	-8,612.6	-344.0	900.3	755.2	145.11	6.204		
17,765.0	8,985.9	18,862.7	9,790.6	69.2	71.0	153.99	-8,677.6	-344.5	900.3	754.2	146.10	6.162		
17,800.0	8,986.0	18,897.7	9,790.6	69.5	71.3	153.99	-8,712.6	-344.8	900.4	753.7	146.63	6.140		
17,860.0	8,986.0	18,957.7	9,790.6	70.0	71.7	153.99	-8,772.6	-345.3	900.4	752.8	147.55	6.102		
17,900.0	8,986.0	18,997.7	9,790.6	70.3	72.0	153.99	-8,812.6	-345.6	900.4	752.2	148.16	6.077		
17,955.0	8,986.0	19,052.7	9,790.7	70.7	72.4	153.99	-8,867.6	-346.1	900.4	751.4	148.99	6.043		
18,000.0	8,986.0	19,097.7	9,790.7	71.0	72.8	153.99	-8,912.6	-346.4	900.4	750.7	149.68	6.015		
18,050.0	8,986.1	19,147.7	9,790.7	71.4	73.2	153.99	-8,962.6	-346.9	900.4	749.9	150.44	5.985		
18,100.0	8,986.1	19,197.7	9,790.7	71.8	73.5	153.99	-9,012.6	-347.3	900.4	749.2	151.20	5.955		
18,145.0	8,986.1	19,242.7	9,790.8	72.1	73.9	153.99	-9,057.6	-347.6	900.4	748.5	151.89	5.928		
18,200.0	8,986.1	19,297.7	9,790.8	72.5	74.3	153.99	-9,112.6	-348.1	900.4	747.7	152.72	5.895		
18,240.0	8,986.2	19,337.7	9,790.8	72.8	74.6	153.99	-9,152.6	-348.4	900.4	747.0	153.33	5.872		
18,300.0	8,986.2	19,397.7	9,790.8	73.3	75.0	153.99	-9,212.6	-348.9	900.4	746.1	154.25	5.837		
18,335.0	8,986.2	19,432.7	9,790.9	73.5	75.3	153.99	-9,247.6	-349.2	900.4	745.6	154.78	5.817		
18,400.0	8,986.2	19,497.7	9,790.9	74.0	75.8	153.99	-9,312.6	-349.8	900.4	744.6	155.77	5.780		
18,430.0	8,986.2	19,527.7	9,790.9	74.2	76.0	153.99	-9,342.6	-350.0	900.4	744.2	156.23	5.763		
18,500.0	8,986.3	19,597.7	9,791.0	74.8	76.5	153.99	-9,412.6	-350.6	900.4	743.1	157.30	5.724		
18,525.0	8,986.3	19,622.7	9,791.0	74.9	76.7	153.99	-9,437.6	-350.8	900.4	742.7	157.68	5.710		
18,600.0	8,986.3	19,697.7	9,791.0	75.5	77.3	153.99	-9,512.6	-351.4	900.4	741.6	158.83	5.669		
18,620.0	8,986.3	19,717.7	9,791.0	75.7	77.4	153.99	-9,532.6	-351.6	900.4	741.3	159.13	5.658		
18,700.0	8,986.4	19,797.7	9,791.1	76.3	78.0	153.99	-9,612.6	-352.2	900.4	740.0	160.36	5.615		
18,715.0	8,986.4	19,812.7	9,791.1	76.4	78.1	153.99	-9,627.6	-352.4	900.4	739.8	160.58	5.607		
18,800.0	8,986.4	19,897.7	9,791.1	77.0	78.8	153.99	-9,712.6	-353.1	900.4	738.5	161.88	5.562		
18,810.0	8,986.4	19,907.7	9,791.1	77.1	78.9	153.99	-9,722.6	-353.1	900.4	738.4	162.04	5.557		
18,900.0	8,986.5	19,997.7	9,791.2	77.8	79.5	153.99	-9,812.6	-353.9	900.4	737.0	163.41	5.510		
18,905.0	8,986.5	20,002.7	9,791.2	77.8	79.6	153.99	-9,817.6	-353.9	900.4	736.9	163.49	5.508		
19,000.0	8,986.5	20,097.7	9,791.2	78.5	80.3	153.99	-9,912.6	-354.7	900.4	735.5	164.94	5.459		
19,095.0	8,986.6	20,192.7	9,791.3	79.2	81.0	153.99	-10,007.6	-355.5	900.4	734.0	166.40	5.411		
19,100.0	8,986.6	20,197.7	9,791.3	79.3	81.0	153.99	-10,012.6	-355.5	900.4	734.0	166.47	5.409		
19,190.0	8,986.6	20,287.7	9,791.3	80.0	81.7	153.99	-10,102.6	-356.3	900.4	732.6	167.85	5.365		
19,200.0	8,986.6	20,297.7	9,791.3	80.0	81.8	153.99	-10,112.6	-356.4	900.4	732.4	168.00	5.360		
19,285.0	8,986.6	20,382.7	9,791.4	80.7	82.4	153.99	-10,197.6	-357.1	900.4	731.1	169.30	5.318		
19,300.0	8,986.7	20,397.7	9,791.4	80.8	82.5	153.99	-10,212.6	-357.2	900.4	730.9	169.53	5.311		
19,380.0	8,986.7	20,477.7	9,791.4	81.4	83.1	153.99	-10,292.5	-357.9	900.4	729.7	170.76	5.273		
19,400.0	8,986.7	20,497.7	9,791.4	81.5	83.3	153.99	-10,312.5	-358.0	900.4	729.4	171.07	5.264		
19,475.0	8,986.7	20,572.7	9,791.5	82.1	83.8	153.99	-10,387.5	-358.7	900.5	728.2	172.21	5.229		
19,500.0	8,986.7	20,597.7	9,791.5	82.3	84.0	153.99	-10,412.5	-358.9	900.5	727.9	172.60	5.217		
19,570.0	8,986.8	20,667.7	9,791.5	82.8	84.6	153.99	-10,482.5	-359.4	900.5	726.8	173.67	5.185		
19,600.0	8,986.8	20,697.7	9,791.5	83.0	84.8	153.99	-10,512.5	-359.7	900.5	726.3	174.13	5.171		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	8,986.8	20,762.7	9,791.6	83.5	85.3	153.99	-10,577.5	-360.2	900.5	725.3	175.13	5.142
19,700.0	8,986.8	20,797.7	9,791.6	83.8	85.5	153.99	-10,612.5	-360.5	900.5	724.8	175.66	5.126
19,760.0	8,986.9	20,857.7	9,791.6	84.3	86.0	153.99	-10,672.5	-361.0	900.5	723.9	176.58	5.099
19,800.0	8,986.9	20,897.7	9,791.6	84.6	86.3	153.99	-10,712.5	-361.3	900.5	723.3	177.20	5.082
19,855.0	8,986.9	20,952.7	9,791.7	85.0	86.7	153.99	-10,767.5	-361.8	900.5	722.4	178.04	5.058
19,900.0	8,986.9	20,997.7	9,791.7	85.3	87.0	153.99	-10,812.5	-362.2	900.5	721.7	178.73	5.038
19,950.0	8,987.0	21,047.7	9,791.7	85.7	87.4	153.99	-10,862.5	-362.6	900.5	721.0	179.50	5.017
20,000.0	8,987.0	21,097.7	9,791.7	86.1	87.8	153.99	-10,912.5	-363.0	900.5	720.2	180.27	4.995
20,045.0	8,987.0	21,142.7	9,791.8	86.4	88.1	153.99	-10,957.5	-363.4	900.5	719.5	180.96	4.976
20,100.0	8,987.0	21,197.7	9,791.8	86.8	88.6	153.99	-11,012.5	-363.8	900.5	718.7	181.80	4.953
20,140.0	8,987.0	21,237.7	9,791.8	87.1	88.9	153.99	-11,052.5	-364.2	900.5	718.1	182.42	4.936
20,200.0	8,987.1	21,297.7	9,791.8	87.6	89.3	153.99	-11,112.5	-364.7	900.5	717.2	183.34	4.912
20,235.0	8,987.1	21,332.7	9,791.9	87.8	89.6	153.99	-11,147.5	-364.9	900.5	716.6	183.88	4.897
20,300.0	8,987.1	21,397.7	9,791.9	88.3	90.1	153.99	-11,212.5	-365.5	900.5	715.6	184.88	4.871
20,330.0	8,987.1	21,427.7	9,791.9	88.6	90.3	153.99	-11,242.5	-365.7	900.5	715.2	185.34	4.859
20,400.0	8,987.2	21,497.7	9,791.9	89.1	90.8	153.99	-11,312.5	-366.3	900.5	714.1	186.41	4.831
20,425.0	8,987.2	21,522.7	9,792.0	89.3	91.0	153.99	-11,337.5	-366.5	900.5	713.7	186.80	4.821
20,500.0	8,987.2	21,597.7	9,792.0	89.8	91.6	153.99	-11,412.5	-367.1	900.5	712.6	187.95	4.791
20,520.0	8,987.2	21,617.7	9,792.0	90.0	91.7	153.99	-11,432.5	-367.3	900.5	712.3	188.26	4.783
20,600.0	8,987.3	21,697.7	9,792.1	90.6	92.3	153.99	-11,512.5	-368.0	900.5	711.0	189.49	4.752
20,615.0	8,987.3	21,712.7	9,792.1	90.7	92.4	153.99	-11,527.5	-368.1	900.5	710.8	189.72	4.747
20,700.0	8,987.3	21,797.7	9,792.1	91.4	93.1	153.99	-11,612.5	-368.8	900.5	709.5	191.03	4.714
20,710.0	8,987.3	21,807.7	9,792.1	91.4	93.2	153.99	-11,622.5	-368.9	900.5	709.3	191.18	4.710
20,800.0	8,987.4	21,897.7	9,792.2	92.1	93.8	153.99	-11,712.5	-369.6	900.5	708.0	192.56	4.677
20,805.0	8,987.4	21,902.7	9,792.2	92.1	93.9	153.99	-11,717.5	-369.7	900.5	707.9	192.64	4.675
20,900.0	8,987.4	21,997.7	9,792.2	92.9	94.6	153.99	-11,812.5	-370.4	900.5	706.4	194.10	4.639
20,995.0	8,987.4	22,092.7	9,792.3	93.6	95.3	153.99	-11,907.5	-371.2	900.5	705.0	195.56	4.605
21,000.0	8,987.4	22,097.7	9,792.3	93.6	95.3	153.99	-11,912.5	-371.3	900.5	704.9	195.64	4.603
21,090.0	8,987.5	22,187.7	9,792.3	94.3	96.0	153.99	-12,002.5	-372.0	900.5	703.5	197.03	4.571
21,100.0	8,987.5	22,197.7	9,792.3	94.4	96.1	153.99	-12,012.5	-372.1	900.5	703.4	197.18	4.567
21,185.0	8,987.5	22,282.7	9,792.4	95.0	96.7	153.99	-12,097.5	-372.8	900.6	702.1	198.49	4.537
21,200.0	8,987.5	22,297.7	9,792.4	95.1	96.9	153.99	-12,112.5	-372.9	900.6	701.8	198.72	4.532
21,280.0	8,987.6	22,377.7	9,792.4	95.7	97.5	153.99	-12,192.5	-373.6	900.6	700.6	199.95	4.504
21,300.0	8,987.6	22,397.7	9,792.4	95.9	97.6	153.99	-12,212.5	-373.8	900.6	700.3	200.26	4.497
21,375.0	8,987.6	22,472.7	9,792.5	96.5	98.2	153.99	-12,287.5	-374.4	900.6	699.1	201.42	4.471
21,400.0	8,987.6	22,497.7	9,792.5	96.6	98.4	153.99	-12,312.5	-374.6	900.6	698.8	201.80	4.463
21,470.0	8,987.7	22,567.7	9,792.5	97.2	98.9	153.99	-12,382.5	-375.2	900.6	697.7	202.88	4.439
21,500.0	8,987.7	22,597.7	9,792.5	97.4	99.1	153.99	-12,412.5	-375.4	900.6	697.2	203.34	4.429
21,565.0	8,987.7	22,662.7	9,792.6	97.9	99.6	153.99	-12,477.5	-376.0	900.6	696.2	204.35	4.407
21,600.0	8,987.7	22,697.7	9,792.6	98.2	99.9	153.99	-12,512.5	-376.2	900.6	695.7	204.88	4.396
21,660.0	8,987.8	22,757.7	9,792.6	98.6	100.3	153.99	-12,572.5	-376.7	900.6	694.8	205.81	4.376
21,700.0	8,987.8	22,797.7	9,792.6	98.9	100.6	153.99	-12,612.5	-377.1	900.6	694.2	206.43	4.363
21,755.0	8,987.8	22,852.7	9,792.7	99.3	101.1	153.99	-12,667.5	-377.5	900.6	693.3	207.27	4.345
21,800.0	8,987.8	22,897.7	9,792.7	99.7	101.4	153.99	-12,712.5	-377.9	900.6	692.6	207.97	4.330
21,850.0	8,987.8	22,947.7	9,792.7	100.1	101.8	153.99	-12,762.5	-378.3	900.6	691.9	208.74	4.314
21,900.0	8,987.9	22,997.7	9,792.7	100.4	102.1	153.99	-12,812.5	-378.7	900.6	691.1	209.51	4.299
21,945.0	8,987.9	23,042.7	9,792.8	100.8	102.5	153.99	-12,857.5	-379.1	900.6	690.4	210.20	4.284
22,000.0	8,987.9	23,097.7	9,792.8	101.2	102.9	153.99	-12,912.5	-379.6	900.6	689.5	211.05	4.267
22,040.0	8,987.9	23,137.7	9,792.8	101.5	103.2	153.99	-12,952.5	-379.9	900.6	688.9	211.67	4.255
22,100.0	8,988.0	23,197.7	9,792.8	102.0	103.7	153.99	-13,012.5	-380.4	900.6	688.0	212.60	4.236
22,135.0	8,988.0	23,232.7	9,792.9	102.2	103.9	153.99	-13,047.5	-380.7	900.6	687.5	213.14	4.225

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		
22,200.0	8,988.0	23,297.7	9,792.9	102.7	104.4	153.99	-13,112.5	-381.2	900.6	686.5	214.14	4.206		
22,230.0	8,988.0	23,327.7	9,792.9	102.9	104.6	153.99	-13,142.5	-381.5	900.6	686.0	214.60	4.197		
22,300.0	8,988.1	23,397.7	9,792.9	103.5	105.2	153.99	-13,212.4	-382.0	900.6	684.9	215.68	4.176		
22,325.0	8,988.1	23,422.7	9,793.0	103.7	105.4	153.99	-13,237.4	-382.2	900.6	684.5	216.07	4.168		
22,400.0	8,988.1	23,497.7	9,793.0	104.2	105.9	153.99	-13,312.4	-382.9	900.6	683.4	217.23	4.146		
22,420.0	8,988.1	23,517.7	9,793.0	104.4	106.1	153.99	-13,332.4	-383.0	900.6	683.1	217.54	4.140		
22,500.0	8,988.1	23,597.7	9,793.0	105.0	106.7	153.99	-13,412.4	-383.7	900.6	681.9	218.77	4.117		
22,515.0	8,988.2	23,612.7	9,793.1	105.1	106.8	153.99	-13,427.4	-383.8	900.6	681.6	219.00	4.112		
22,600.0	8,988.2	23,697.7	9,793.1	105.7	107.4	153.99	-13,512.4	-384.5	900.6	680.3	220.32	4.088		
22,610.0	8,988.2	23,707.7	9,793.1	105.8	107.5	153.99	-13,522.4	-384.6	900.6	680.2	220.47	4.085		
22,700.0	8,988.2	23,797.7	9,793.2	106.5	108.2	153.99	-13,612.4	-385.3	900.6	678.8	221.86	4.060		
22,705.0	8,988.2	23,802.7	9,793.2	106.5	108.2	153.99	-13,617.4	-385.4	900.6	678.7	221.94	4.058		
22,800.0	8,988.3	23,897.7	9,793.2	107.3	109.0	153.99	-13,712.4	-386.2	900.6	677.2	223.40	4.031		
22,895.0	8,988.3	23,992.7	9,793.3	108.0	109.7	153.99	-13,807.4	-387.0	900.7	675.8	224.87	4.005		
22,900.0	8,988.3	23,997.7	9,793.3	108.0	109.7	153.99	-13,812.4	-387.0	900.7	675.7	224.95	4.004		
22,990.0	8,988.4	24,087.7	9,793.3	108.7	110.4	153.99	-13,902.4	-387.7	900.7	674.3	226.34	3.979		
23,000.0	8,988.4	24,097.7	9,793.3	108.8	110.5	153.99	-13,912.4	-387.8	900.7	674.2	226.49	3.977		
23,085.0	8,988.4	24,182.7	9,793.4	109.4	111.1	153.99	-13,997.4	-388.5	900.7	672.9	227.81	3.954		
23,100.0	8,988.4	24,197.7	9,793.4	109.5	111.2	153.99	-14,012.4	-388.7	900.7	672.6	228.04	3.950		
23,180.0	8,988.5	24,277.7	9,793.4	110.1	111.8	153.99	-14,092.4	-389.3	900.7	671.4	229.28	3.928		
23,200.0	8,988.5	24,297.7	9,793.4	110.3	112.0	153.99	-14,112.4	-389.5	900.7	671.1	229.59	3.923		
23,275.0	8,988.5	24,372.7	9,793.5	110.9	112.6	153.99	-14,187.4	-390.1	900.7	669.9	230.75	3.903		
23,300.0	8,988.5	24,397.7	9,793.5	111.0	112.7	153.99	-14,212.4	-390.3	900.7	669.5	231.13	3.897		
23,370.0	8,988.6	24,467.7	9,793.5	111.6	113.3	153.99	-14,282.4	-390.9	900.7	668.5	232.21	3.879		
23,400.0	8,988.6	24,497.7	9,793.5	111.8	113.5	153.99	-14,312.4	-391.1	900.7	668.0	232.68	3.871		
23,465.0	8,988.6	24,562.7	9,793.6	112.3	114.0	153.99	-14,377.4	-391.7	900.7	667.0	233.68	3.854		
23,500.0	8,988.6	24,597.7	9,793.6	112.6	114.3	153.99	-14,412.4	-392.0	900.7	666.5	234.23	3.845		
23,560.0	8,988.6	24,657.7	9,793.6	113.0	114.7	153.99	-14,472.4	-392.5	900.7	665.5	235.15	3.830		
23,600.0	8,988.7	24,697.7	9,793.6	113.3	115.0	153.99	-14,512.4	-392.8	900.7	664.9	235.77	3.820		
23,655.0	8,988.7	24,752.7	9,793.7	113.7	115.4	153.99	-14,567.4	-393.3	900.7	664.1	236.62	3.806		
23,700.0	8,988.7	24,797.7	9,793.7	114.1	115.8	153.99	-14,612.4	-393.6	900.7	663.4	237.32	3.795		
23,750.0	8,988.7	24,847.7	9,793.7	114.5	116.2	153.99	-14,662.4	-394.0	900.7	662.6	238.09	3.783		
23,800.0	8,988.8	24,897.7	9,793.7	114.8	116.5	153.99	-14,712.4	-394.5	900.7	661.8	238.87	3.771		
23,845.0	8,988.8	24,942.7	9,793.8	115.2	116.9	153.99	-14,757.4	-394.8	900.7	661.1	239.56	3.760		
23,900.0	8,988.8	24,997.7	9,793.8	115.6	117.3	153.99	-14,812.4	-395.3	900.7	660.3	240.41	3.747		
23,940.0	8,988.8	25,037.7	9,793.8	115.9	117.6	153.99	-14,852.4	-395.6	900.7	659.7	241.03	3.737		
24,000.0	8,988.8	25,097.7	9,793.8	116.4	118.1	153.99	-14,912.4	-396.1	900.7	658.8	241.96	3.723		
24,035.0	8,988.9	25,132.7	9,793.9	116.6	118.3	153.99	-14,947.4	-396.4	900.7	658.2	242.50	3.714		
24,100.0	8,988.9	25,197.7	9,793.9	117.1	118.8	153.99	-15,012.4	-396.9	900.7	657.2	243.51	3.699		
24,130.0	8,988.9	25,227.7	9,793.9	117.3	119.0	153.99	-15,042.4	-397.2	900.7	656.8	243.97	3.692		
24,190.8	8,988.9	25,288.5	9,793.9	117.8	119.5	153.99	-15,103.2	-397.7	900.7	655.8	244.91	3.678		
24,200.0	8,988.9	25,297.7	9,793.9	117.9	119.6	153.99	-15,112.4	-397.8	900.7	655.7	245.05	3.676		
24,225.0	8,989.0	25,322.7	9,794.0	118.1	119.8	153.99	-15,137.4	-398.0	900.7	655.3	245.44	3.670		
24,300.0	8,989.0	25,397.7	9,794.0	118.6	120.3	153.99	-15,212.4	-398.6	900.7	654.1	246.60	3.653		
24,300.1	8,989.0	25,397.8	9,794.0	118.6	120.3	153.99	-15,212.5	-398.6	900.7	654.1	246.61	3.653		
24,320.0	8,989.0	25,408.3	9,794.0	118.8	120.4	153.99	-15,223.0	-398.7	900.8	654.0	246.81	3.650		
24,320.8	8,989.0	25,408.3	9,794.0	118.8	120.4	153.99	-15,223.0	-398.7	900.8	654.0	246.82	3.650 SF		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	-31.90	148.3	-92.3	174.7				
95.0	95.0	90.5	90.5	3.0	3.0	-31.90	148.3	-92.3	174.7	168.6	6.03	28.946	
100.0	100.0	95.5	95.5	3.0	3.0	-31.90	148.3	-92.3	174.7	168.6	6.04	28.923	
190.0	190.0	185.5	185.5	3.1	3.1	-31.90	148.3	-92.3	174.7	168.4	6.25	27.952	
200.0	200.0	195.5	195.5	3.1	3.1	-31.90	148.3	-92.3	174.7	168.4	6.28	27.800	
285.0	285.0	280.5	280.5	3.3	3.2	-31.90	148.3	-92.3	174.7	168.2	6.49	26.914	
300.0	300.0	295.5	295.5	3.3	3.3	-31.90	148.3	-92.3	174.7	168.1	6.53	26.745	
380.0	380.0	375.5	375.5	3.4	3.4	-31.90	148.3	-92.3	174.7	168.0	6.72	25.983	
400.0	400.0	395.5	395.5	3.4	3.4	-31.90	148.3	-92.3	174.7	167.9	6.77	25.786	
475.0	475.0	470.5	470.5	3.5	3.5	-31.90	148.3	-92.3	174.7	167.7	6.95	25.128	
500.0	500.0	495.5	495.5	3.5	3.5	-31.90	148.3	-92.3	174.7	167.7	7.01	24.905	
570.0	570.0	565.5	565.5	3.6	3.6	-31.90	148.3	-92.3	174.7	167.5	7.18	24.337	
600.0	600.0	595.5	595.5	3.6	3.6	-31.90	148.3	-92.3	174.7	167.4	7.25	24.093	
665.0	665.0	660.5	660.5	3.7	3.7	-31.90	148.3	-92.3	174.7	167.3	7.40	23.603	
700.0	700.0	695.5	695.5	3.8	3.8	-31.90	148.3	-92.3	174.7	167.2	7.48	23.340	
760.0	760.0	755.5	755.5	3.8	3.8	-31.90	148.3	-92.3	174.7	167.1	7.62	22.919	
800.0	800.0	795.5	795.5	3.9	3.9	-31.90	148.3	-92.3	174.7	167.0	7.72	22.640	
855.0	855.0	850.5	850.5	4.0	3.9	-31.90	148.3	-92.3	174.7	166.8	7.84	22.279	
900.0	900.0	895.5	895.5	4.0	4.0	-31.90	148.3	-92.3	174.7	166.7	7.94	21.987	
950.0	950.0	945.5	945.5	4.1	4.1	-31.90	148.3	-92.3	174.7	166.6	8.06	21.680	
1,000.0	1,000.0	995.5	995.5	4.1	4.1	-31.90	148.3	-92.3	174.7	166.5	8.17	21.376	
1,045.0	1,045.0	1,040.5	1,040.5	4.2	4.2	-31.90	148.3	-92.3	174.7	166.4	8.27	21.116	
1,100.0	1,100.0	1,095.5	1,095.5	4.2	4.2	-31.90	148.3	-92.3	174.7	166.3	8.40	20.802	
1,140.0	1,140.0	1,135.5	1,135.5	4.3	4.3	-31.90	148.3	-92.3	174.7	166.2	8.49	20.584	
1,200.0	1,200.0	1,195.5	1,195.5	4.4	4.4	-31.90	148.3	-92.3	174.7	166.1	8.62	20.263	
1,235.0	1,235.0	1,230.5	1,230.5	4.4	4.4	-31.90	148.3	-92.3	174.7	166.0	8.70	20.083	
1,300.0	1,300.0	1,295.5	1,295.5	4.5	4.5	-31.90	148.3	-92.3	174.7	165.8	8.84	19.754	
1,330.0	1,330.0	1,325.5	1,325.5	4.5	4.5	-31.90	148.3	-92.3	174.7	165.8	8.91	19.608	
1,400.0	1,400.0	1,395.5	1,395.5	4.6	4.6	-31.90	148.3	-92.3	174.7	165.6	9.06	19.273	
1,425.0	1,425.0	1,420.5	1,420.5	4.6	4.6	-31.90	148.3	-92.3	174.7	165.6	9.12	19.158	
1,500.0	1,500.0	1,495.5	1,495.5	4.7	4.7	-31.90	148.3	-92.3	174.7	165.4	9.28	18.818	
1,520.0	1,520.0	1,514.8	1,514.8	4.8	4.7	-52.80	148.3	-92.3	174.7	165.3	9.34	18.705	
1,520.5	1,520.5	1,515.3	1,515.3	4.8	4.7	-52.80	148.3	-92.3	174.7	165.3	9.34	18.702 CC	
1,600.0	1,600.0	1,590.9	1,590.9	4.9	4.8	-53.48	148.9	-93.6	174.9	165.3	9.56	18.300 ES	
1,615.0	1,615.0	1,605.2	1,605.2	5.0	4.8	-53.71	149.0	-94.1	175.0	165.3	9.61	18.203	
1,700.0	1,699.8	1,685.9	1,685.7	5.2	5.0	-55.62	150.6	-97.9	175.9	165.9	9.94	17.696	
1,710.0	1,709.8	1,695.3	1,695.2	5.2	5.0	-55.91	150.8	-98.5	176.0	166.0	9.98	17.643	
1,800.0	1,799.5	1,780.2	1,779.7	5.4	5.2	-59.09	153.5	-104.9	178.1	167.8	10.31	17.271	
1,805.0	1,804.4	1,784.9	1,784.4	5.5	5.2	-59.30	153.7	-105.4	178.3	168.0	10.33	17.265	
1,850.0	1,849.1	1,827.0	1,826.3	5.5	5.4	-61.27	155.4	-109.5	180.0	169.6	10.45	17.230 SF	
1,900.0	1,898.8	1,873.6	1,872.5	5.6	5.5	-63.65	157.6	-114.8	182.8	172.2	10.58	17.266	
1,995.0	1,993.0	1,961.6	1,959.6	5.8	5.8	-68.14	162.5	-126.6	190.9	180.0	10.94	17.457	
2,000.0	1,998.0	1,966.2	1,964.2	5.8	5.8	-68.37	162.8	-127.3	191.5	180.5	10.96	17.476	
2,090.0	2,087.3	2,048.8	2,045.4	6.1	6.1	-72.42	168.3	-140.7	203.1	191.8	11.31	17.965	
2,100.0	2,097.3	2,057.9	2,054.4	6.1	6.1	-72.85	169.0	-142.3	204.6	193.3	11.35	18.035	
2,185.0	2,181.6	2,134.9	2,129.7	6.3	6.4	-76.33	175.1	-157.1	219.2	207.5	11.69	18.755	
2,200.0	2,196.5	2,148.4	2,142.9	6.4	6.4	-76.90	176.2	-159.8	222.1	210.3	11.75	18.903	
2,280.0	2,275.9	2,221.6	2,214.0	6.6	6.7	-79.83	182.8	-175.8	238.9	226.9	12.08	19.778	
2,300.0	2,295.8	2,240.9	2,232.7	6.6	6.7	-80.54	184.6	-180.1	243.4	231.2	12.17	20.002	
2,375.0	2,370.2	2,313.2	2,302.9	6.9	7.0	-82.99	191.3	-196.2	260.3	247.8	12.50	20.829	
2,400.0	2,395.0	2,337.3	2,326.3	6.9	7.0	-83.73	193.5	-201.6	266.1	253.4	12.61	21.096	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
2,470.0	2,464.5	2,404.7	2,391.7	7.2	7.3	-85.67	199.7	-216.7	282.3	269.4	12.93	21.829
2,500.0	2,494.3	2,433.7	2,419.8	7.3	7.4	-86.43	202.4	-223.2	289.4	276.3	13.08	22.131
2,565.0	2,558.8	2,496.3	2,480.6	7.5	7.6	-87.97	208.2	-237.2	304.9	291.5	13.39	22.772
2,600.0	2,593.5	2,530.1	2,513.3	7.6	7.7	-88.73	211.3	-244.7	313.3	299.7	13.56	23.103
2,660.0	2,653.1	2,587.9	2,569.4	7.8	7.9	-89.95	216.7	-257.6	327.8	313.9	13.86	23.656
2,700.0	2,692.8	2,626.4	2,606.8	7.9	8.1	-90.70	220.2	-266.3	337.5	323.5	14.06	24.010
2,755.0	2,747.4	2,679.5	2,658.3	8.1	8.3	-91.67	225.1	-278.1	351.0	336.7	14.34	24.483
2,800.0	2,792.1	2,722.8	2,700.4	8.3	8.4	-92.41	229.2	-287.8	362.2	347.6	14.57	24.856
2,850.0	2,841.7	2,771.0	2,747.1	8.4	8.6	-93.18	233.6	-298.6	374.6	359.7	14.83	25.256
2,900.0	2,891.3	2,819.2	2,793.9	8.6	8.8	-93.90	238.1	-309.4	387.0	371.9	15.09	25.641
2,945.0	2,936.0	2,862.6	2,836.0	8.8	9.0	-94.52	242.1	-319.1	398.3	383.0	15.33	25.976
3,000.0	2,990.6	2,915.6	2,887.4	9.0	9.2	-95.22	247.0	-330.9	412.1	396.5	15.63	26.371
3,040.0	3,030.3	2,954.2	2,924.8	9.1	9.3	-95.70	250.5	-339.5	422.2	406.4	15.85	26.648
3,100.0	3,089.8	3,012.0	2,980.9	9.3	9.6	-96.38	255.9	-352.4	437.4	421.3	16.17	27.049
3,135.0	3,124.6	3,045.7	3,013.7	9.4	9.7	-96.76	259.0	-360.0	446.3	429.9	16.36	27.274
3,200.0	3,189.1	3,108.4	3,074.5	9.7	10.0	-97.42	264.8	-374.0	462.9	446.1	16.72	27.678
3,230.0	3,218.8	3,137.3	3,102.5	9.8	10.1	-97.71	267.5	-380.5	470.5	453.6	16.89	27.858
3,300.0	3,288.3	3,204.8	3,168.0	10.0	10.4	-98.35	273.7	-395.5	488.4	471.1	17.28	28.263
3,325.0	3,313.1	3,228.9	3,191.4	10.1	10.5	-98.56	275.9	-400.9	494.8	477.4	17.42	28.402
3,400.0	3,387.6	3,301.2	3,261.5	10.4	10.8	-99.18	282.6	-417.1	514.1	496.2	17.85	28.807
3,420.0	3,407.4	3,320.4	3,280.2	10.5	10.9	-99.34	284.4	-421.4	519.2	501.3	17.96	28.911
3,500.0	3,486.8	3,397.6	3,355.0	10.8	11.2	-99.94	291.5	-438.6	539.8	521.4	18.42	29.314
3,515.0	3,501.7	3,412.0	3,369.1	10.9	11.3	-100.05	292.9	-441.9	543.7	525.2	18.50	29.386
3,600.0	3,586.1	3,493.9	3,448.6	11.2	11.6	-100.63	300.4	-460.2	565.7	546.7	18.99	29.786
3,610.0	3,596.0	3,503.6	3,457.9	11.2	11.7	-100.70	301.3	-462.3	568.3	549.2	19.05	29.831
3,700.0	3,685.3	3,590.3	3,542.1	11.6	12.0	-101.26	309.3	-481.7	591.6	572.0	19.57	30.226
3,705.0	3,690.3	3,595.2	3,546.8	11.6	12.1	-101.29	309.8	-482.8	592.9	573.3	19.60	30.248
3,800.0	3,784.6	3,686.7	3,635.6	11.9	12.5	-101.84	318.3	-503.3	617.6	597.4	20.16	30.638
3,895.0	3,878.9	3,778.3	3,724.5	12.3	12.9	-102.34	326.7	-523.7	642.3	621.6	20.72	31.004
3,900.0	3,883.9	3,783.1	3,729.1	12.3	12.9	-102.37	327.2	-524.8	643.6	622.9	20.75	31.023
3,990.0	3,973.2	3,869.9	3,813.3	12.7	13.3	-102.81	335.2	-544.2	667.1	645.8	21.28	31.349
4,000.0	3,983.1	3,879.5	3,822.7	12.7	13.3	-102.85	336.1	-546.4	669.7	648.3	21.34	31.384
4,085.0	4,067.5	3,961.4	3,902.2	13.0	13.7	-103.24	343.7	-564.7	691.9	670.0	21.84	31.673
4,100.0	4,082.4	3,975.9	3,916.2	13.1	13.8	-103.31	345.0	-567.9	695.8	673.9	21.93	31.722
4,180.0	4,161.8	4,053.0	3,991.0	13.4	14.1	-103.64	352.1	-585.2	716.7	694.3	22.41	31.980
4,198.2	4,179.8	4,070.5	4,008.0	13.5	14.2	-103.72	353.7	-589.1	721.5	698.9	22.52	32.037
4,200.0	4,181.6	4,072.3	4,009.7	13.5	14.2	-103.73	353.9	-589.5	721.9	699.4	22.53	32.045
4,275.0	4,256.1	4,144.6	4,079.9	13.8	14.5	-104.18	360.6	-605.6	741.5	718.5	22.98	32.268
4,300.0	4,281.0	4,168.8	4,103.3	13.9	14.7	-104.31	362.8	-611.0	747.9	724.8	23.13	32.338
4,370.0	4,350.6	4,236.4	4,169.0	14.2	15.0	-104.63	369.1	-626.1	765.9	742.3	23.54	32.528
4,400.0	4,380.5	4,265.4	4,197.1	14.3	15.1	-104.74	371.8	-632.6	773.5	749.8	23.72	32.604
4,465.0	4,445.3	4,328.3	4,258.2	14.5	15.4	-104.94	377.6	-646.7	789.9	765.8	24.11	32.764
4,500.0	4,480.2	4,362.2	4,291.0	14.6	15.5	-105.02	380.7	-654.3	798.6	774.3	24.32	32.845
4,560.0	4,540.1	4,420.3	4,347.4	14.8	15.8	-105.13	386.1	-667.3	813.5	788.8	24.67	32.979
4,600.0	4,580.0	4,459.1	4,385.0	15.0	16.0	-105.18	389.7	-675.9	823.3	798.4	24.90	33.063
4,655.0	4,635.0	4,512.4	4,436.8	15.1	16.2	-105.22	394.6	-687.8	836.7	811.5	25.22	33.176
4,700.0	4,679.9	4,556.1	4,479.1	15.3	16.4	-105.22	398.6	-697.6	847.6	822.1	25.48	33.262
4,750.0	4,729.9	4,604.6	4,526.2	15.4	16.7	-105.20	403.1	-708.4	859.6	833.8	25.77	33.356
4,800.0	4,779.9	4,653.1	4,573.3	15.6	16.9	-105.15	407.6	-719.3	871.5	845.4	26.06	33.445
4,845.0	4,824.9	4,696.7	4,615.6	15.7	17.1	-105.09	411.6	-729.1	882.0	855.7	26.31	33.530
4,898.1	4,878.0	4,748.3	4,665.6	15.7	17.3	-84.12	416.4	-740.6	894.4	867.8	26.60	33.624

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
4,900.0	4,879.9	4,750.1	4,667.4	15.7	17.4	-84.11	416.6	-741.0	894.9	868.3	26.61	33.630	
4,940.0	4,919.9	4,788.9	4,705.1	15.8	17.5	-83.93	420.1	-749.7	904.2	877.4	26.83	33.702	
5,000.0	4,979.9	4,847.1	4,761.6	15.8	17.8	-83.68	425.5	-762.7	918.1	891.0	27.16	33.807	
5,035.0	5,014.9	4,881.1	4,794.5	15.8	18.0	-83.53	428.7	-770.3	926.3	898.9	27.35	33.867	
5,100.0	5,079.9	4,944.2	4,855.7	15.9	18.3	-83.27	434.5	-784.4	941.5	913.7	27.71	33.976	
5,130.0	5,109.9	4,973.3	4,884.0	15.9	18.4	-83.15	437.2	-790.9	948.5	920.6	27.88	34.025	
5,200.0	5,179.9	5,041.2	4,949.9	15.9	18.7	-82.88	443.5	-806.1	964.8	936.5	28.26	34.136	
5,225.0	5,204.9	5,065.4	4,973.4	15.9	18.8	-82.79	445.7	-811.5	970.7	942.3	28.40	34.174	
5,300.0	5,279.9	5,138.2	5,044.0	16.0	19.2	-82.51	452.4	-827.7	988.2	959.4	28.82	34.287	
5,320.0	5,299.9	5,157.6	5,062.8	16.0	19.3	-82.44	454.2	-832.1	992.9	964.0	28.93	34.317	
5,400.0	5,379.9	5,235.2	5,138.2	16.0	19.6	-82.16	461.4	-849.4	1,011.6	982.3	29.38	34.432	
5,415.0	5,394.9	5,249.8	5,152.3	16.0	19.7	-82.10	462.8	-852.7	1,015.2	985.7	29.47	34.453	
5,500.0	5,479.9	5,332.3	5,232.3	16.1	20.1	-81.82	470.4	-871.1	1,035.1	1,005.2	29.94	34.569	
5,510.0	5,489.9	5,342.0	5,241.7	16.1	20.1	-81.79	471.3	-873.3	1,037.5	1,007.5	30.00	34.583	
5,600.0	5,579.9	5,429.3	5,326.5	16.2	20.6	-81.50	479.3	-892.8	1,058.6	1,028.1	30.51	34.700	
5,605.0	5,584.9	5,434.2	5,331.2	16.2	20.6	-81.48	479.8	-893.9	1,059.8	1,029.2	30.54	34.707	
5,700.0	5,679.9	5,526.3	5,420.6	16.2	21.0	-81.19	488.3	-914.5	1,082.1	1,051.1	31.07	34.826	
5,795.0	5,774.9	5,618.5	5,510.0	16.3	21.5	-80.91	496.8	-935.1	1,104.5	1,072.9	31.61	34.940	
5,800.0	5,779.9	5,623.4	5,514.8	16.3	21.5	-80.89	497.3	-936.2	1,105.7	1,074.1	31.64	34.946	
5,890.0	5,869.9	5,710.7	5,599.5	16.3	21.9	-80.64	505.4	-955.7	1,126.9	1,094.8	32.15	35.049	
5,900.0	5,879.9	5,720.4	5,608.9	16.3	21.9	-80.61	506.3	-957.9	1,129.3	1,097.1	32.21	35.060	
5,985.0	5,964.9	5,802.9	5,688.9	16.4	22.3	-80.38	513.9	-976.3	1,149.3	1,116.7	32.69	35.154	
6,000.0	5,979.9	5,817.4	5,703.1	16.4	22.4	-80.34	515.2	-979.6	1,152.9	1,120.1	32.78	35.170	
6,080.0	6,059.9	5,895.1	5,778.4	16.5	22.8	-80.13	522.4	-996.9	1,171.8	1,138.6	33.24	35.255	
6,100.0	6,079.9	5,914.5	5,797.2	16.5	22.9	-80.08	524.2	-1,001.3	1,176.5	1,143.2	33.35	35.276	
6,175.0	6,154.9	5,987.2	5,867.8	16.5	23.2	-79.89	530.9	-1,017.5	1,194.3	1,160.5	33.78	35.352	
6,200.0	6,179.9	6,011.5	5,891.3	16.5	23.3	-79.83	533.2	-1,022.9	1,200.2	1,166.3	33.93	35.377	
6,270.0	6,249.9	6,079.4	5,957.3	16.6	23.7	-79.66	539.4	-1,038.1	1,216.8	1,182.4	34.33	35.446	
6,300.0	6,279.9	6,108.5	5,985.5	16.6	23.8	-79.59	542.1	-1,044.6	1,223.9	1,189.4	34.50	35.475	
6,365.0	6,344.9	6,171.6	6,046.7	16.6	24.1	-79.43	548.0	-1,058.7	1,239.3	1,204.4	34.87	35.536	
6,400.0	6,379.9	6,205.6	6,079.6	16.7	24.3	-79.35	551.1	-1,066.3	1,247.6	1,212.5	35.07	35.570	
6,460.0	6,439.9	6,298.3	6,169.9	16.7	24.7	-79.15	559.3	-1,086.1	1,261.2	1,225.6	35.60	35.429	
6,500.0	6,479.9	6,367.4	6,237.6	16.7	25.0	-79.02	564.6	-1,099.0	1,269.1	1,233.1	35.97	35.284	
6,555.0	6,534.9	6,463.4	6,332.1	16.7	25.5	-78.87	571.0	-1,114.5	1,278.5	1,242.1	36.45	35.078	
6,600.0	6,579.9	6,542.8	6,410.7	16.8	25.8	-78.77	575.4	-1,125.1	1,284.9	1,248.1	36.81	34.910	
6,650.0	6,629.9	6,631.7	6,498.9	16.8	26.2	-78.68	579.3	-1,134.6	1,290.6	1,253.4	37.17	34.725	
6,700.0	6,679.9	6,721.1	6,588.0	16.8	26.6	-78.61	582.2	-1,141.5	1,294.7	1,257.2	37.48	34.548	
6,745.0	6,724.9	6,801.9	6,668.7	16.9	26.9	-78.58	583.9	-1,145.6	1,297.1	1,259.4	37.71	34.396	
6,800.0	6,779.9	6,900.9	6,767.7	16.9	27.2	-78.56	584.8	-1,147.8	1,298.4	1,260.5	37.89	34.263	
6,840.0	6,819.9	6,948.6	6,815.4	16.9	27.2	-78.56	584.8	-1,147.8	1,298.4	1,260.5	37.93	34.234	
6,900.0	6,879.9	7,008.6	6,875.4	17.0	27.2	-78.56	584.8	-1,147.8	1,298.4	1,260.4	38.00	34.170	
6,935.0	6,914.9	7,043.6	6,910.4	17.0	27.2	-78.56	584.8	-1,147.8	1,298.4	1,260.4	38.04	34.131	
7,000.0	6,979.9	7,108.6	6,975.4	17.0	27.2	-78.56	584.8	-1,147.8	1,298.4	1,260.3	38.12	34.058	
7,030.0	7,009.9	7,138.6	7,005.4	17.0	27.2	-78.56	584.8	-1,147.8	1,298.4	1,260.2	38.16	34.025	
7,100.0	7,079.9	7,208.6	7,075.4	17.1	27.3	-78.56	584.8	-1,147.8	1,298.4	1,260.2	38.25	33.948	
7,125.0	7,104.9	7,233.6	7,100.4	17.1	27.3	-78.56	584.8	-1,147.8	1,298.4	1,260.1	38.28	33.920	
7,200.0	7,179.9	7,308.6	7,175.4	17.2	27.3	-78.56	584.8	-1,147.8	1,298.4	1,260.0	38.37	33.838	
7,220.0	7,199.9	7,328.6	7,195.4	17.2	27.3	-78.56	584.8	-1,147.8	1,298.4	1,260.0	38.40	33.816	
7,300.0	7,279.9	7,408.6	7,275.4	17.2	27.3	-78.56	584.8	-1,147.8	1,298.4	1,259.9	38.50	33.728	
7,315.0	7,294.9	7,423.6	7,290.4	17.2	27.3	-78.56	584.8	-1,147.8	1,298.4	1,259.9	38.51	33.712	
7,400.0	7,379.9	7,508.6	7,375.4	17.3	27.4	-78.56	584.8	-1,147.8	1,298.4	1,259.8	38.62	33.619	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
7,410.0	7,389.9	7,518.6	7,385.4	17.3	27.4	-78.56	584.8	-1,147.8	1,298.4	1,259.8	38.63	33.609	
7,500.0	7,479.9	7,608.6	7,475.4	17.3	27.4	-78.56	584.8	-1,147.8	1,298.4	1,259.7	38.75	33.511	
7,505.0	7,484.9	7,613.6	7,480.4	17.3	27.4	-78.56	584.8	-1,147.8	1,298.4	1,259.7	38.75	33.506	
7,600.0	7,579.9	7,708.6	7,575.4	17.4	27.4	-78.56	584.8	-1,147.8	1,298.4	1,259.5	38.87	33.404	
7,695.0	7,674.9	7,803.6	7,670.4	17.5	27.5	-78.56	584.8	-1,147.8	1,298.4	1,259.4	38.99	33.302	
7,700.0	7,679.9	7,808.6	7,675.4	17.5	27.5	-78.56	584.8	-1,147.8	1,298.4	1,259.4	38.99	33.297	
7,790.0	7,769.9	7,898.6	7,765.4	17.5	27.5	-78.56	584.8	-1,147.8	1,298.4	1,259.3	39.11	33.201	
7,800.0	7,779.9	7,908.6	7,775.4	17.5	27.5	-78.56	584.8	-1,147.8	1,298.4	1,259.3	39.12	33.191	
7,885.0	7,864.9	7,993.6	7,860.4	17.6	27.5	-78.56	584.8	-1,147.8	1,298.4	1,259.2	39.23	33.101	
7,900.0	7,879.9	8,008.6	7,875.4	17.6	27.5	-78.56	584.8	-1,147.8	1,298.4	1,259.2	39.24	33.085	
7,980.0	7,959.9	8,088.6	7,955.4	17.7	27.6	-78.56	584.8	-1,147.8	1,298.4	1,259.1	39.34	33.001	
8,000.0	7,979.9	8,108.6	7,975.4	17.7	27.6	-78.56	584.8	-1,147.8	1,298.4	1,259.0	39.37	32.980	
8,075.0	8,054.9	8,183.6	8,050.4	17.7	27.6	-78.56	584.8	-1,147.8	1,298.4	1,258.9	39.46	32.902	
8,100.0	8,079.9	8,208.6	8,075.4	17.7	27.6	-78.56	584.8	-1,147.8	1,298.4	1,258.9	39.49	32.876	
8,170.0	8,149.9	8,278.6	8,145.4	17.8	27.6	-78.56	584.8	-1,147.8	1,298.4	1,258.8	39.58	32.803	
8,200.0	8,179.9	8,308.6	8,175.4	17.8	27.6	-78.56	584.8	-1,147.8	1,298.4	1,258.8	39.62	32.772	
8,265.0	8,244.9	8,373.6	8,240.4	17.8	27.7	-78.56	584.8	-1,147.8	1,298.4	1,258.7	39.70	32.705	
8,300.0	8,279.9	8,408.6	8,275.4	17.9	27.7	-78.56	584.8	-1,147.8	1,298.4	1,258.7	39.74	32.669	
8,360.0	8,339.9	8,468.6	8,335.4	17.9	27.7	-78.56	584.8	-1,147.8	1,298.4	1,258.6	39.82	32.607	
8,400.0	8,379.9	8,508.6	8,375.4	17.9	27.7	-78.56	584.8	-1,147.8	1,298.4	1,258.5	39.87	32.566	
8,429.2	8,409.0	8,537.8	8,404.5	17.9	27.7	-78.56	584.8	-1,147.8	1,298.4	1,258.5	39.89	32.547	
8,450.0	8,429.9	8,558.6	8,425.4	17.9	27.7	100.98	584.8	-1,147.8	1,298.5	1,258.6	39.91	32.539	
8,455.0	8,434.9	8,563.6	8,430.4	18.0	27.7	100.98	584.8	-1,147.8	1,298.5	1,258.6	39.91	32.537	
8,500.0	8,479.7	8,608.4	8,475.2	18.0	27.7	101.08	584.8	-1,147.8	1,299.2	1,259.3	39.94	32.530	
8,550.0	8,529.0	8,657.7	8,524.5	18.1	27.8	101.27	584.8	-1,147.8	1,300.9	1,260.9	39.98	32.541	
8,600.0	8,577.4	8,706.1	8,572.9	18.1	27.8	101.54	584.8	-1,147.8	1,303.5	1,263.4	40.02	32.574	
8,645.0	8,619.8	8,748.5	8,615.3	18.2	27.8	101.84	584.8	-1,147.8	1,306.7	1,266.6	40.05	32.622	
8,650.0	8,624.5	8,753.2	8,620.0	18.2	27.8	101.87	584.8	-1,147.8	1,307.1	1,267.0	40.06	32.629	
8,700.0	8,669.9	8,798.6	8,665.4	18.3	27.8	102.21	584.8	-1,147.8	1,311.8	1,271.7	40.10	32.710	
8,740.0	8,704.9	8,833.6	8,700.4	18.3	27.8	102.48	584.8	-1,147.8	1,316.5	1,276.4	40.14	32.795	
8,750.0	8,713.4	8,842.1	8,708.9	18.3	27.8	102.54	584.8	-1,147.8	1,317.9	1,277.7	40.15	32.820	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - LEONARDO BKL FEDERAL COM #1 - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 250-INC-ONLY												Offset Well Error:	10.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,880.0	8,982.3	8,948.4	8,942.7	19.2	263.1	89.57	-1,344.3	-1,050.9	1,288.7	1,008.3	280.36	4.597	
9,900.0	8,982.3	8,948.7	8,943.0	19.2	263.1	89.59	-1,344.3	-1,050.9	1,280.2	999.8	280.36	4.566	
9,975.0	8,982.3	8,949.8	8,944.1	19.2	263.2	89.64	-1,344.3	-1,050.9	1,250.5	970.1	280.39	4.460	
10,000.0	8,982.3	8,950.1	8,944.4	19.3	263.2	89.66	-1,344.3	-1,050.9	1,241.5	961.1	280.40	4.428	
10,070.0	8,982.3	8,951.2	8,945.5	19.3	263.2	89.71	-1,344.4	-1,050.9	1,218.6	938.1	280.46	4.345	
10,100.0	8,982.4	8,951.7	8,946.0	19.4	263.2	89.74	-1,344.4	-1,050.9	1,209.9	929.4	280.49	4.314	
10,165.0	8,982.4	8,952.7	8,947.0	19.4	263.3	89.79	-1,344.4	-1,050.9	1,193.4	912.8	280.57	4.253	
10,200.0	8,982.4	8,953.2	8,947.5	19.5	263.3	89.81	-1,344.4	-1,050.9	1,185.9	905.3	280.63	4.226	
10,260.0	8,982.4	8,954.2	8,948.5	19.6	263.3	89.86	-1,344.4	-1,050.9	1,175.4	894.6	280.74	4.187	
10,300.0	8,982.5	8,954.9	8,949.2	19.6	263.3	89.89	-1,344.4	-1,050.9	1,170.0	889.2	280.82	4.166	
10,355.0	8,982.5	8,955.8	8,950.1	19.7	263.3	89.94	-1,344.4	-1,050.9	1,164.8	883.9	280.95	4.146	
10,400.0	8,982.5	8,956.6	8,950.9	19.8	263.4	89.98	-1,344.5	-1,050.9	1,162.5	881.4	281.06	4.136	
10,437.5	8,982.5	8,957.3	8,951.6	19.8	263.4	90.01	-1,344.5	-1,050.9	1,161.9	880.7	281.16	4.132 CC, ES	
10,450.0	8,982.5	8,957.5	8,951.8	19.9	263.4	90.02	-1,344.5	-1,050.9	1,162.0	880.8	281.20	4.132 SF	
10,500.0	8,982.5	8,958.4	8,952.7	20.0	263.4	90.07	-1,344.5	-1,050.9	1,163.6	882.2	281.34	4.136	
10,545.0	8,982.6	8,959.2	8,953.5	20.1	263.4	90.11	-1,344.5	-1,050.9	1,166.8	885.4	281.49	4.145	
10,600.0	8,982.6	8,960.2	8,954.5	20.2	263.5	90.16	-1,344.5	-1,050.9	1,173.2	891.5	281.66	4.165	
10,640.0	8,982.6	8,961.0	8,955.3	20.3	263.5	90.20	-1,344.5	-1,050.9	1,179.4	897.6	281.80	4.185	
10,700.0	8,982.6	8,962.2	8,956.5	20.5	263.5	90.25	-1,344.6	-1,050.9	1,191.2	909.2	282.01	4.224	
10,735.0	8,982.7	8,962.9	8,957.2	20.6	263.6	90.29	-1,344.6	-1,050.9	1,199.4	917.2	282.13	4.251	
10,800.0	8,982.7	8,964.2	8,958.5	20.9	263.6	90.36	-1,344.6	-1,050.9	1,217.1	934.7	282.36	4.310	
10,830.0	8,982.7	8,964.9	8,959.2	21.0	263.6	90.39	-1,344.6	-1,050.9	1,226.4	943.9	282.46	4.342	
10,900.0	8,982.7	8,966.4	8,960.7	21.2	263.7	90.46	-1,344.6	-1,050.9	1,250.5	967.8	282.71	4.423	
10,925.0	8,982.7	8,966.9	8,961.2	21.4	263.7	90.49	-1,344.6	-1,050.9	1,260.0	977.2	282.79	4.455	
11,000.0	8,982.8	8,968.6	8,962.9	21.7	263.7	90.57	-1,344.7	-1,050.9	1,290.8	1,007.8	283.05	4.560	
11,020.0	8,982.8	8,969.1	8,963.3	21.8	263.7	90.59	-1,344.7	-1,050.9	1,299.7	1,016.6	283.11	4.591	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3129.2ft @ 3161.2usf

Offset Depths are relative to Offset Datum

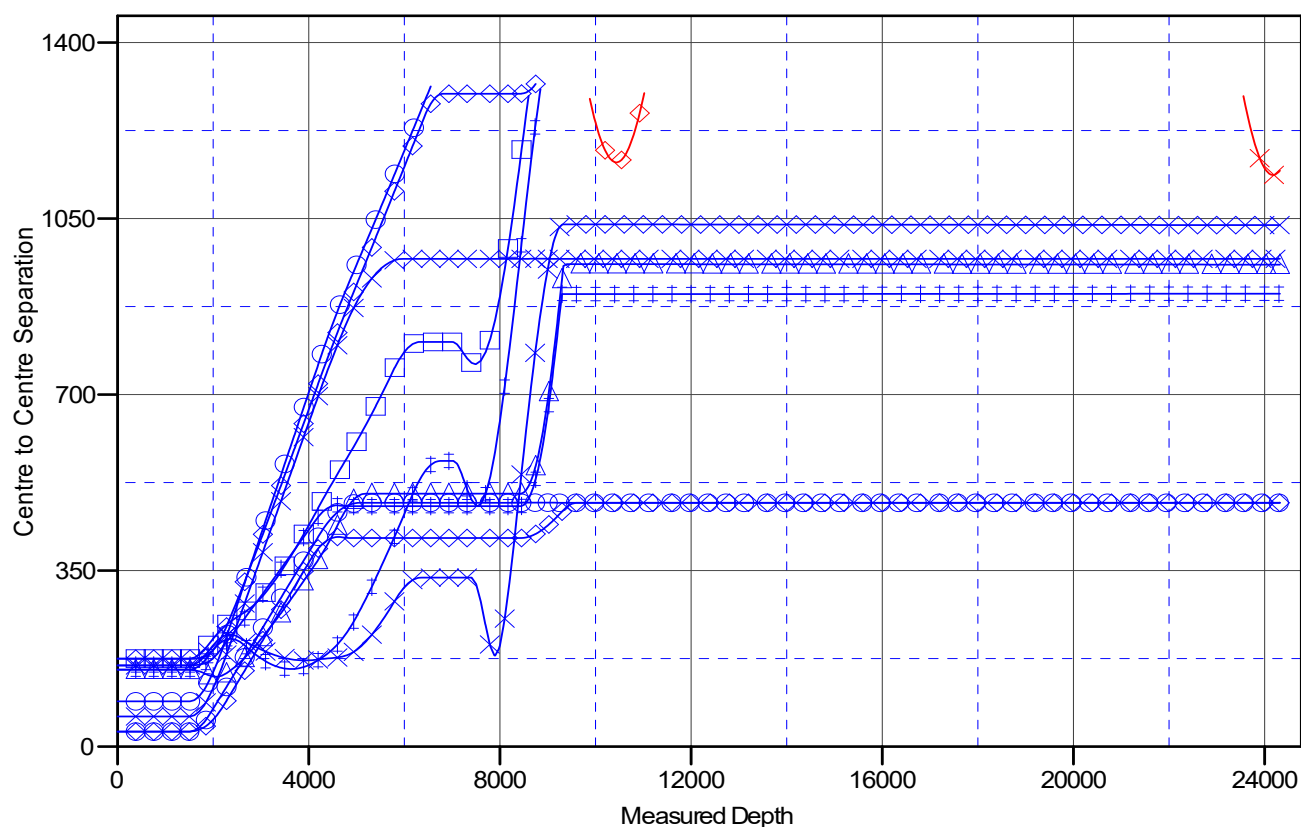
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #702H

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 #16H, OWB, AWP V0	FLAMING SNAIL FEDERAL COM #701H, OWB, PWP 1 V0	FLAMING SNAIL FEDERAL COM #801H, OWB, PWP 1 V0
FLAMING SNAIL FEDERAL COM #501H, OWB, PWP 0 V0	FLAMING SNAIL FEDERAL COM #703H, OWB, PWP 1 V0	FLAMING SNAIL FEDERAL COM #802H, OWB, PWP 1 V0
FLAMING SNAIL FEDERAL COM #502H, OWB, PWP 0 V0	FLAMING SNAIL FEDERAL COM #704H, OWB, PWP 1 V0	FLAMING SNAIL FEDERAL COM #803H, OWB, PWP 1 V0
FLAMING SNAIL FEDERAL COM #520H, OWB, PWP 0 V0	FLAMING SNAIL FEDERAL COM #705H, OWB, PWP 1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP 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 #702H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3129.2ft @ 3161.2usft

Offset Depths are relative to Offset Datum

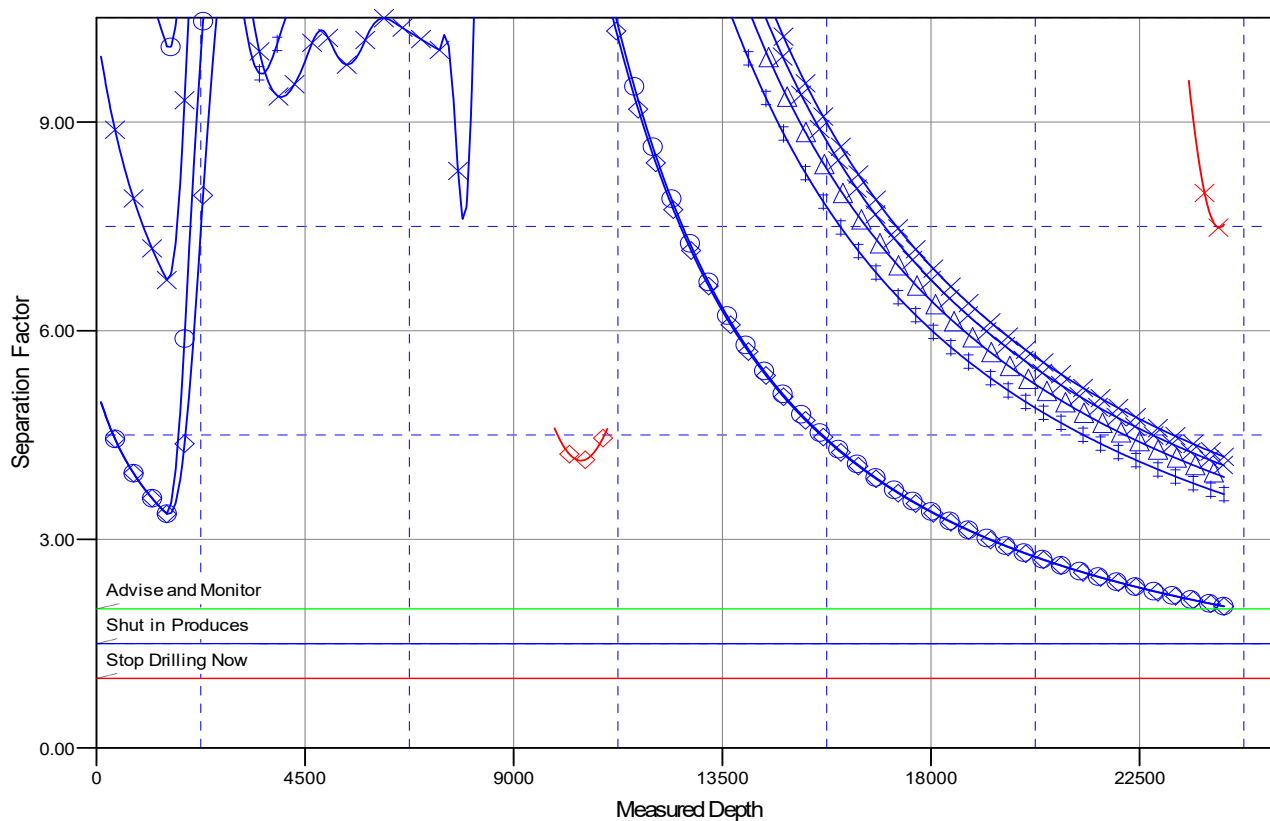
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #702H

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 #16H, OWB, AWP V0	FLAMING SNAIL FEDERAL COM #701H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #801H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #501H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #703H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #802H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #502H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #803H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #520H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #705H, OWB, PWP1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP 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 #702H

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 #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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

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

Well	FLAMING SNAIL FEDERAL COM #702H					
Well Position	+N/-S	-546.9 usft	Northing:	402,474.80 usft	Latitude:	32° 6' 23.174 N
	+E/-W	4,372.9 usft	Easting:	544,684.80 usft	Longitude:	104° 11' 20.470 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,129.2 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,317.49296550

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	180.01

Plan Survey Tool Program	Date	9/23/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	1,500.0 PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp
2	1,500.0	8,429.2 PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	8,429.2	24,320.8 PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #702H	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	
1,850.0	7.00	20.88	1,849.1	19.9	7.6	2.00	2.00	0.00	20.88	
4,198.2	7.00	20.88	4,179.8	287.3	109.6	0.00	0.00	0.00	0.00	
4,898.1	0.00	0.01	4,878.0	327.2	124.8	1.00	-1.00	0.00	180.00	
8,429.2	0.00	0.01	8,409.0	327.2	124.8	0.00	0.00	0.00	0.00	
9,328.9	89.97	180.47	8,982.0	-245.5	120.1	10.00	10.00	-19.95	180.47	
24,190.8	89.97	180.47	8,988.9	-15,106.9	-2.7	0.00	0.00	0.00	0.00	LTP (FLAMING SNAIL)
24,320.8	89.97	180.47	8,989.0	-15,236.9	-3.8	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 #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #702H	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	20.88	1,600.0	1.6	0.6	-1.6	2.00	2.00	0.00
1,700.0	4.00	20.88	1,699.8	6.5	2.5	-6.5	2.00	2.00	0.00
1,800.0	6.00	20.88	1,799.5	14.7	5.6	-14.7	2.00	2.00	0.00
1,850.0	7.00	20.88	1,849.1	19.9	7.6	-19.9	2.00	2.00	0.00
Start 2348.2 hold at 1850.0 MD									
1,900.0	7.00	20.88	1,898.8	25.6	9.8	-25.6	0.00	0.00	0.00
2,000.0	7.00	20.88	1,998.0	37.0	14.1	-37.0	0.00	0.00	0.00
2,100.0	7.00	20.88	2,097.3	48.4	18.5	-48.4	0.00	0.00	0.00
2,200.0	7.00	20.88	2,196.5	59.8	22.8	-59.8	0.00	0.00	0.00
2,300.0	7.00	20.88	2,295.8	71.2	27.2	-71.2	0.00	0.00	0.00
2,400.0	7.00	20.88	2,395.0	82.6	31.5	-82.6	0.00	0.00	0.00
2,500.0	7.00	20.88	2,494.3	94.0	35.8	-94.0	0.00	0.00	0.00
2,600.0	7.00	20.88	2,593.5	105.3	40.2	-105.4	0.00	0.00	0.00
2,700.0	7.00	20.88	2,692.8	116.7	44.5	-116.7	0.00	0.00	0.00
2,800.0	7.00	20.88	2,792.1	128.1	48.9	-128.1	0.00	0.00	0.00
2,900.0	7.00	20.88	2,891.3	139.5	53.2	-139.5	0.00	0.00	0.00
3,000.0	7.00	20.88	2,990.6	150.9	57.6	-150.9	0.00	0.00	0.00
3,100.0	7.00	20.88	3,089.8	162.3	61.9	-162.3	0.00	0.00	0.00
3,200.0	7.00	20.88	3,189.1	173.7	66.2	-173.7	0.00	0.00	0.00
3,300.0	7.00	20.88	3,288.3	185.0	70.6	-185.1	0.00	0.00	0.00
3,400.0	7.00	20.88	3,387.6	196.4	74.9	-196.4	0.00	0.00	0.00
3,500.0	7.00	20.88	3,486.8	207.8	79.3	-207.8	0.00	0.00	0.00
3,600.0	7.00	20.88	3,586.1	219.2	83.6	-219.2	0.00	0.00	0.00
3,700.0	7.00	20.88	3,685.3	230.6	87.9	-230.6	0.00	0.00	0.00
3,800.0	7.00	20.88	3,784.6	242.0	92.3	-242.0	0.00	0.00	0.00
3,900.0	7.00	20.88	3,883.9	253.4	96.6	-253.4	0.00	0.00	0.00
4,000.0	7.00	20.88	3,983.1	264.7	101.0	-264.8	0.00	0.00	0.00
4,100.0	7.00	20.88	4,082.4	276.1	105.3	-276.2	0.00	0.00	0.00
4,198.2	7.00	20.88	4,179.8	287.3	109.6	-287.3	0.00	0.00	0.00
Start Drop -1.00									
4,200.0	6.98	20.88	4,181.6	287.5	109.7	-287.5	1.00	-1.00	0.00
4,300.0	5.98	20.88	4,281.0	298.1	113.7	-298.1	1.00	-1.00	0.00
4,400.0	4.98	20.88	4,380.5	307.0	117.1	-307.0	1.00	-1.00	0.00
4,500.0	3.98	20.88	4,480.2	314.3	119.9	-314.3	1.00	-1.00	0.00
4,600.0	2.98	20.88	4,580.0	320.0	122.0	-320.0	1.00	-1.00	0.00
4,700.0	1.98	20.88	4,679.9	324.0	123.6	-324.0	1.00	-1.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #702H	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)
4,800.0	0.98	20.88	4,779.9	326.4	124.5	-326.4	1.00	-1.00	0.00
4,898.1	0.00	0.00	4,878.0	327.2	124.8	-327.2	1.00	-1.00	-21.28
Start 3531.0 hold at 4898.1 MD									
4,900.0	0.00	0.00	4,879.9	327.2	124.8	-327.2	0.00	0.00	0.00
5,000.0	0.00	0.00	4,979.9	327.2	124.8	-327.2	0.00	0.00	0.00
5,100.0	0.00	0.00	5,079.9	327.2	124.8	-327.2	0.00	0.00	0.00
5,200.0	0.00	0.00	5,179.9	327.2	124.8	-327.2	0.00	0.00	0.00
5,300.0	0.00	0.00	5,279.9	327.2	124.8	-327.2	0.00	0.00	0.00
5,400.0	0.00	0.00	5,379.9	327.2	124.8	-327.2	0.00	0.00	0.00
5,500.0	0.00	0.00	5,479.9	327.2	124.8	-327.2	0.00	0.00	0.00
5,600.0	0.00	0.00	5,579.9	327.2	124.8	-327.2	0.00	0.00	0.00
5,700.0	0.00	0.00	5,679.9	327.2	124.8	-327.2	0.00	0.00	0.00
5,800.0	0.00	0.00	5,779.9	327.2	124.8	-327.2	0.00	0.00	0.00
5,900.0	0.00	0.00	5,879.9	327.2	124.8	-327.2	0.00	0.00	0.00
6,000.0	0.00	0.00	5,979.9	327.2	124.8	-327.2	0.00	0.00	0.00
6,100.0	0.00	0.00	6,079.9	327.2	124.8	-327.2	0.00	0.00	0.00
6,200.0	0.00	0.00	6,179.9	327.2	124.8	-327.2	0.00	0.00	0.00
6,300.0	0.00	0.00	6,279.9	327.2	124.8	-327.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,379.9	327.2	124.8	-327.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,479.9	327.2	124.8	-327.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,579.9	327.2	124.8	-327.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,679.9	327.2	124.8	-327.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,779.9	327.2	124.8	-327.2	0.00	0.00	0.00
6,900.0	0.00	0.00	6,879.9	327.2	124.8	-327.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,979.9	327.2	124.8	-327.2	0.00	0.00	0.00
7,100.0	0.00	0.00	7,079.9	327.2	124.8	-327.2	0.00	0.00	0.00
7,200.0	0.00	0.00	7,179.9	327.2	124.8	-327.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,279.9	327.2	124.8	-327.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,379.9	327.2	124.8	-327.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,479.9	327.2	124.8	-327.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,579.9	327.2	124.8	-327.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,679.9	327.2	124.8	-327.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,779.9	327.2	124.8	-327.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,879.9	327.2	124.8	-327.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,979.9	327.2	124.8	-327.2	0.00	0.00	0.00
8,100.0	0.00	0.00	8,079.9	327.2	124.8	-327.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,179.9	327.2	124.8	-327.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,279.9	327.2	124.8	-327.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,379.9	327.2	124.8	-327.2	0.00	0.00	0.00
8,429.2	0.00	0.00	8,409.0	327.2	124.8	-327.2	0.00	0.00	0.00
Start DLS 10.00 TFO 180.47									
8,450.0	2.08	180.47	8,429.9	326.8	124.8	-326.9	10.00	10.00	0.00
8,500.0	7.08	180.47	8,479.7	322.8	124.8	-322.9	10.00	10.00	0.00
8,550.0	12.08	180.47	8,529.0	314.5	124.7	-314.5	10.00	10.00	0.00
8,600.0	17.08	180.47	8,577.4	301.9	124.6	-301.9	10.00	10.00	0.00
8,650.0	22.08	180.47	8,624.5	285.2	124.5	-285.2	10.00	10.00	0.00
8,700.0	27.08	180.47	8,669.9	264.4	124.3	-264.4	10.00	10.00	0.00
8,750.0	32.08	180.47	8,713.4	239.7	124.1	-239.7	10.00	10.00	0.00
8,800.0	37.08	180.47	8,754.5	211.3	123.8	-211.3	10.00	10.00	0.00
8,850.0	42.08	180.47	8,793.1	179.5	123.6	-179.5	10.00	10.00	0.00
8,900.0	47.08	180.47	8,828.7	144.4	123.3	-144.4	10.00	10.00	0.00
8,950.0	52.08	180.47	8,861.1	106.3	123.0	-106.4	10.00	10.00	0.00
9,000.0	57.08	180.47	8,890.0	65.6	122.6	-65.6	10.00	10.00	0.00
9,050.0	62.08	180.47	8,915.3	22.5	122.3	-22.5	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #702H	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)
9,100.0	67.08	180.47	8,936.8	-22.7	121.9	22.6	10.00	10.00	0.00
9,150.0	72.08	180.47	8,954.2	-69.5	121.5	69.5	10.00	10.00	0.00
9,200.0	77.08	180.47	8,967.5	-117.7	121.1	117.7	10.00	10.00	0.00
9,250.0	82.08	180.47	8,976.5	-166.8	120.7	166.8	10.00	10.00	0.00
9,300.0	87.08	180.47	8,981.3	-216.6	120.3	216.6	10.00	10.00	0.00
9,328.9	89.97	180.47	8,982.0	-245.5	120.1	245.4	10.00	10.00	0.00
Start 14861.9 hold at 9328.9 MD									
9,400.0	89.97	180.47	8,982.0	-316.6	119.5	316.6	0.00	0.00	0.00
9,500.0	89.97	180.47	8,982.1	-416.6	118.7	416.6	0.00	0.00	0.00
9,600.0	89.97	180.47	8,982.1	-516.6	117.8	516.5	0.00	0.00	0.00
9,700.0	89.97	180.47	8,982.2	-616.6	117.0	616.5	0.00	0.00	0.00
9,800.0	89.97	180.47	8,982.2	-716.6	116.2	716.5	0.00	0.00	0.00
9,900.0	89.97	180.47	8,982.3	-816.6	115.4	816.5	0.00	0.00	0.00
10,000.0	89.97	180.47	8,982.3	-916.6	114.5	916.5	0.00	0.00	0.00
10,100.0	89.97	180.47	8,982.4	-1,016.6	113.7	1,016.5	0.00	0.00	0.00
10,200.0	89.97	180.47	8,982.4	-1,116.6	112.9	1,116.5	0.00	0.00	0.00
10,300.0	89.97	180.47	8,982.5	-1,216.6	112.0	1,216.5	0.00	0.00	0.00
10,400.0	89.97	180.47	8,982.5	-1,316.6	111.2	1,316.5	0.00	0.00	0.00
10,500.0	89.97	180.47	8,982.5	-1,416.5	110.4	1,416.5	0.00	0.00	0.00
10,600.0	89.97	180.47	8,982.6	-1,516.5	109.6	1,516.5	0.00	0.00	0.00
10,700.0	89.97	180.47	8,982.6	-1,616.5	108.7	1,616.5	0.00	0.00	0.00
10,800.0	89.97	180.47	8,982.7	-1,716.5	107.9	1,716.5	0.00	0.00	0.00
10,900.0	89.97	180.47	8,982.7	-1,816.5	107.1	1,816.5	0.00	0.00	0.00
11,000.0	89.97	180.47	8,982.8	-1,916.5	106.3	1,916.5	0.00	0.00	0.00
11,100.0	89.97	180.47	8,982.8	-2,016.5	105.4	2,016.5	0.00	0.00	0.00
11,200.0	89.97	180.47	8,982.9	-2,116.5	104.6	2,116.5	0.00	0.00	0.00
11,300.0	89.97	180.47	8,982.9	-2,216.5	103.8	2,216.5	0.00	0.00	0.00
11,400.0	89.97	180.47	8,983.0	-2,316.5	103.0	2,316.5	0.00	0.00	0.00
11,500.0	89.97	180.47	8,983.0	-2,416.5	102.1	2,416.5	0.00	0.00	0.00
11,600.0	89.97	180.47	8,983.1	-2,516.5	101.3	2,516.5	0.00	0.00	0.00
11,700.0	89.97	180.47	8,983.1	-2,616.5	100.5	2,616.5	0.00	0.00	0.00
11,800.0	89.97	180.47	8,983.2	-2,716.5	99.7	2,716.5	0.00	0.00	0.00
11,900.0	89.97	180.47	8,983.2	-2,816.5	98.8	2,816.5	0.00	0.00	0.00
12,000.0	89.97	180.47	8,983.2	-2,916.5	98.0	2,916.5	0.00	0.00	0.00
12,100.0	89.97	180.47	8,983.3	-3,016.5	97.2	3,016.5	0.00	0.00	0.00
12,200.0	89.97	180.47	8,983.3	-3,116.5	96.4	3,116.5	0.00	0.00	0.00
12,300.0	89.97	180.47	8,983.4	-3,216.5	95.5	3,216.5	0.00	0.00	0.00
12,400.0	89.97	180.47	8,983.4	-3,316.5	94.7	3,316.5	0.00	0.00	0.00
12,500.0	89.97	180.47	8,983.5	-3,416.5	93.9	3,416.5	0.00	0.00	0.00
12,600.0	89.97	180.47	8,983.5	-3,516.5	93.0	3,516.5	0.00	0.00	0.00
12,700.0	89.97	180.47	8,983.6	-3,616.5	92.2	3,616.4	0.00	0.00	0.00
12,800.0	89.97	180.47	8,983.6	-3,716.5	91.4	3,716.4	0.00	0.00	0.00
12,900.0	89.97	180.47	8,983.7	-3,816.5	90.6	3,816.4	0.00	0.00	0.00
13,000.0	89.97	180.47	8,983.7	-3,916.5	89.7	3,916.4	0.00	0.00	0.00
13,100.0	89.97	180.47	8,983.8	-4,016.5	88.9	4,016.4	0.00	0.00	0.00
13,200.0	89.97	180.47	8,983.8	-4,116.5	88.1	4,116.4	0.00	0.00	0.00
13,300.0	89.97	180.47	8,983.9	-4,216.5	87.3	4,216.4	0.00	0.00	0.00
13,400.0	89.97	180.47	8,983.9	-4,316.4	86.4	4,316.4	0.00	0.00	0.00
13,500.0	89.97	180.47	8,983.9	-4,416.4	85.6	4,416.4	0.00	0.00	0.00
13,600.0	89.97	180.47	8,984.0	-4,516.4	84.8	4,516.4	0.00	0.00	0.00
13,700.0	89.97	180.47	8,984.0	-4,616.4	84.0	4,616.4	0.00	0.00	0.00
13,800.0	89.97	180.47	8,984.1	-4,716.4	83.1	4,716.4	0.00	0.00	0.00
13,900.0	89.97	180.47	8,984.1	-4,816.4	82.3	4,816.4	0.00	0.00	0.00
14,000.0	89.97	180.47	8,984.2	-4,916.4	81.5	4,916.4	0.00	0.00	0.00

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,100.0	89.97	180.47	8,984.2	-5,016.4	80.7	5,016.4	0.00	0.00	0.00
14,200.0	89.97	180.47	8,984.3	-5,116.4	79.8	5,116.4	0.00	0.00	0.00
14,300.0	89.97	180.47	8,984.3	-5,216.4	79.0	5,216.4	0.00	0.00	0.00
14,400.0	89.97	180.47	8,984.4	-5,316.4	78.2	5,316.4	0.00	0.00	0.00
14,500.0	89.97	180.47	8,984.4	-5,416.4	77.4	5,416.4	0.00	0.00	0.00
14,600.0	89.97	180.47	8,984.5	-5,516.4	76.5	5,516.4	0.00	0.00	0.00
14,700.0	89.97	180.47	8,984.5	-5,616.4	75.7	5,616.4	0.00	0.00	0.00
14,800.0	89.97	180.47	8,984.6	-5,716.4	74.9	5,716.4	0.00	0.00	0.00
14,900.0	89.97	180.47	8,984.6	-5,816.4	74.0	5,816.4	0.00	0.00	0.00
15,000.0	89.97	180.47	8,984.6	-5,916.4	73.2	5,916.4	0.00	0.00	0.00
15,100.0	89.97	180.47	8,984.7	-6,016.4	72.4	6,016.4	0.00	0.00	0.00
15,200.0	89.97	180.47	8,984.7	-6,116.4	71.6	6,116.4	0.00	0.00	0.00
15,300.0	89.97	180.47	8,984.8	-6,216.4	70.7	6,216.4	0.00	0.00	0.00
15,400.0	89.97	180.47	8,984.8	-6,316.4	69.9	6,316.4	0.00	0.00	0.00
15,500.0	89.97	180.47	8,984.9	-6,416.4	69.1	6,416.4	0.00	0.00	0.00
15,600.0	89.97	180.47	8,984.9	-6,516.4	68.3	6,516.4	0.00	0.00	0.00
15,700.0	89.97	180.47	8,985.0	-6,616.4	67.4	6,616.4	0.00	0.00	0.00
15,800.0	89.97	180.47	8,985.0	-6,716.4	66.6	6,716.3	0.00	0.00	0.00
15,900.0	89.97	180.47	8,985.1	-6,816.4	65.8	6,816.3	0.00	0.00	0.00
16,000.0	89.97	180.47	8,985.1	-6,916.4	65.0	6,916.3	0.00	0.00	0.00
16,100.0	89.97	180.47	8,985.2	-7,016.4	64.1	7,016.3	0.00	0.00	0.00
16,200.0	89.97	180.47	8,985.2	-7,116.4	63.3	7,116.3	0.00	0.00	0.00
16,300.0	89.97	180.47	8,985.3	-7,216.3	62.5	7,216.3	0.00	0.00	0.00
16,400.0	89.97	180.47	8,985.3	-7,316.3	61.7	7,316.3	0.00	0.00	0.00
16,500.0	89.97	180.47	8,985.3	-7,416.3	60.8	7,416.3	0.00	0.00	0.00
16,600.0	89.97	180.47	8,985.4	-7,516.3	60.0	7,516.3	0.00	0.00	0.00
16,700.0	89.97	180.47	8,985.4	-7,616.3	59.2	7,616.3	0.00	0.00	0.00
16,800.0	89.97	180.47	8,985.5	-7,716.3	58.4	7,716.3	0.00	0.00	0.00
16,900.0	89.97	180.47	8,985.5	-7,816.3	57.5	7,816.3	0.00	0.00	0.00
17,000.0	89.97	180.47	8,985.6	-7,916.3	56.7	7,916.3	0.00	0.00	0.00
17,100.0	89.97	180.47	8,985.6	-8,016.3	55.9	8,016.3	0.00	0.00	0.00
17,200.0	89.97	180.47	8,985.7	-8,116.3	55.0	8,116.3	0.00	0.00	0.00
17,300.0	89.97	180.47	8,985.7	-8,216.3	54.2	8,216.3	0.00	0.00	0.00
17,400.0	89.97	180.47	8,985.8	-8,316.3	53.4	8,316.3	0.00	0.00	0.00
17,500.0	89.97	180.47	8,985.8	-8,416.3	52.6	8,416.3	0.00	0.00	0.00
17,600.0	89.97	180.47	8,985.9	-8,516.3	51.7	8,516.3	0.00	0.00	0.00
17,700.0	89.97	180.47	8,985.9	-8,616.3	50.9	8,616.3	0.00	0.00	0.00
17,800.0	89.97	180.47	8,986.0	-8,716.3	50.1	8,716.3	0.00	0.00	0.00
17,900.0	89.97	180.47	8,986.0	-8,816.3	49.3	8,816.3	0.00	0.00	0.00
18,000.0	89.97	180.47	8,986.0	-8,916.3	48.4	8,916.3	0.00	0.00	0.00
18,100.0	89.97	180.47	8,986.1	-9,016.3	47.6	9,016.3	0.00	0.00	0.00
18,200.0	89.97	180.47	8,986.1	-9,116.3	46.8	9,116.3	0.00	0.00	0.00
18,300.0	89.97	180.47	8,986.2	-9,216.3	46.0	9,216.3	0.00	0.00	0.00
18,400.0	89.97	180.47	8,986.2	-9,316.3	45.1	9,316.3	0.00	0.00	0.00
18,500.0	89.97	180.47	8,986.3	-9,416.3	44.3	9,416.3	0.00	0.00	0.00
18,600.0	89.97	180.47	8,986.3	-9,516.3	43.5	9,516.3	0.00	0.00	0.00
18,700.0	89.97	180.47	8,986.4	-9,616.3	42.7	9,616.3	0.00	0.00	0.00
18,800.0	89.97	180.47	8,986.4	-9,716.3	41.8	9,716.3	0.00	0.00	0.00
18,900.0	89.97	180.47	8,986.5	-9,816.3	41.0	9,816.2	0.00	0.00	0.00
19,000.0	89.97	180.47	8,986.5	-9,916.3	40.2	9,916.2	0.00	0.00	0.00
19,100.0	89.97	180.47	8,986.6	-10,016.3	39.4	10,016.2	0.00	0.00	0.00
19,200.0	89.97	180.47	8,986.6	-10,116.2	38.5	10,116.2	0.00	0.00	0.00
19,300.0	89.97	180.47	8,986.7	-10,216.2	37.7	10,216.2	0.00	0.00	0.00
19,400.0	89.97	180.47	8,986.7	-10,316.2	36.9	10,316.2	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,500.0	89.97	180.47	8,986.7	-10,416.2	36.0	10,416.2	0.00	0.00	0.00
19,600.0	89.97	180.47	8,986.8	-10,516.2	35.2	10,516.2	0.00	0.00	0.00
19,700.0	89.97	180.47	8,986.8	-10,616.2	34.4	10,616.2	0.00	0.00	0.00
19,800.0	89.97	180.47	8,986.9	-10,716.2	33.6	10,716.2	0.00	0.00	0.00
19,900.0	89.97	180.47	8,986.9	-10,816.2	32.7	10,816.2	0.00	0.00	0.00
20,000.0	89.97	180.47	8,987.0	-10,916.2	31.9	10,916.2	0.00	0.00	0.00
20,100.0	89.97	180.47	8,987.0	-11,016.2	31.1	11,016.2	0.00	0.00	0.00
20,200.0	89.97	180.47	8,987.1	-11,116.2	30.3	11,116.2	0.00	0.00	0.00
20,300.0	89.97	180.47	8,987.1	-11,216.2	29.4	11,216.2	0.00	0.00	0.00
20,400.0	89.97	180.47	8,987.2	-11,316.2	28.6	11,316.2	0.00	0.00	0.00
20,500.0	89.97	180.47	8,987.2	-11,416.2	27.8	11,416.2	0.00	0.00	0.00
20,600.0	89.97	180.47	8,987.3	-11,516.2	27.0	11,516.2	0.00	0.00	0.00
20,700.0	89.97	180.47	8,987.3	-11,616.2	26.1	11,616.2	0.00	0.00	0.00
20,800.0	89.97	180.47	8,987.4	-11,716.2	25.3	11,716.2	0.00	0.00	0.00
20,900.0	89.97	180.47	8,987.4	-11,816.2	24.5	11,816.2	0.00	0.00	0.00
21,000.0	89.97	180.47	8,987.4	-11,916.2	23.7	11,916.2	0.00	0.00	0.00
21,100.0	89.97	180.47	8,987.5	-12,016.2	22.8	12,016.2	0.00	0.00	0.00
21,200.0	89.97	180.47	8,987.5	-12,116.2	22.0	12,116.2	0.00	0.00	0.00
21,300.0	89.97	180.47	8,987.6	-12,216.2	21.2	12,216.2	0.00	0.00	0.00
21,400.0	89.97	180.47	8,987.6	-12,316.2	20.4	12,316.2	0.00	0.00	0.00
21,500.0	89.97	180.47	8,987.7	-12,416.2	19.5	12,416.2	0.00	0.00	0.00
21,600.0	89.97	180.47	8,987.7	-12,516.2	18.7	12,516.2	0.00	0.00	0.00
21,700.0	89.97	180.47	8,987.8	-12,616.2	17.9	12,616.2	0.00	0.00	0.00
21,800.0	89.97	180.47	8,987.8	-12,716.2	17.0	12,716.2	0.00	0.00	0.00
21,900.0	89.97	180.47	8,987.9	-12,816.2	16.2	12,816.2	0.00	0.00	0.00
22,000.0	89.97	180.47	8,987.9	-12,916.2	15.4	12,916.1	0.00	0.00	0.00
22,100.0	89.97	180.47	8,988.0	-13,016.2	14.6	13,016.1	0.00	0.00	0.00
22,200.0	89.97	180.47	8,988.0	-13,116.1	13.7	13,116.1	0.00	0.00	0.00
22,300.0	89.97	180.47	8,988.1	-13,216.1	12.9	13,216.1	0.00	0.00	0.00
22,400.0	89.97	180.47	8,988.1	-13,316.1	12.1	13,316.1	0.00	0.00	0.00
22,500.0	89.97	180.47	8,988.1	-13,416.1	11.3	13,416.1	0.00	0.00	0.00
22,600.0	89.97	180.47	8,988.2	-13,516.1	10.4	13,516.1	0.00	0.00	0.00
22,700.0	89.97	180.47	8,988.2	-13,616.1	9.6	13,616.1	0.00	0.00	0.00
22,800.0	89.97	180.47	8,988.3	-13,716.1	8.8	13,716.1	0.00	0.00	0.00
22,900.0	89.97	180.47	8,988.3	-13,816.1	8.0	13,816.1	0.00	0.00	0.00
23,000.0	89.97	180.47	8,988.4	-13,916.1	7.1	13,916.1	0.00	0.00	0.00
23,100.0	89.97	180.47	8,988.4	-14,016.1	6.3	14,016.1	0.00	0.00	0.00
23,200.0	89.97	180.47	8,988.5	-14,116.1	5.5	14,116.1	0.00	0.00	0.00
23,300.0	89.97	180.47	8,988.5	-14,216.1	4.7	14,216.1	0.00	0.00	0.00
23,400.0	89.97	180.47	8,988.6	-14,316.1	3.8	14,316.1	0.00	0.00	0.00
23,500.0	89.97	180.47	8,988.6	-14,416.1	3.0	14,416.1	0.00	0.00	0.00
23,600.0	89.97	180.47	8,988.7	-14,516.1	2.2	14,516.1	0.00	0.00	0.00
23,700.0	89.97	180.47	8,988.7	-14,616.1	1.4	14,616.1	0.00	0.00	0.00
23,800.0	89.97	180.47	8,988.8	-14,716.1	0.5	14,716.1	0.00	0.00	0.00
23,900.0	89.97	180.47	8,988.8	-14,816.1	-0.3	14,816.1	0.00	0.00	0.00
24,000.0	89.97	180.47	8,988.8	-14,916.1	-1.1	14,916.1	0.00	0.00	0.00
24,100.0	89.97	180.47	8,988.9	-15,016.1	-1.9	15,016.1	0.00	0.00	0.00
24,190.8	89.97	180.47	8,988.9	-15,106.9	-2.7	15,106.9	0.00	0.00	0.00
Start 130.0 hold at 24190.8 MD									
24,200.0	89.97	180.47	8,988.9	-15,116.1	-2.8	15,116.1	0.00	0.00	0.00
24,300.0	89.97	180.47	8,989.0	-15,216.1	-3.6	15,216.1	0.00	0.00	0.00
24,320.8	89.97	180.47	8,989.0	-15,236.9	-3.8	15,236.9	0.00	0.00	0.00
TD at 24320.8									

ConocoPhillips

Planning Report

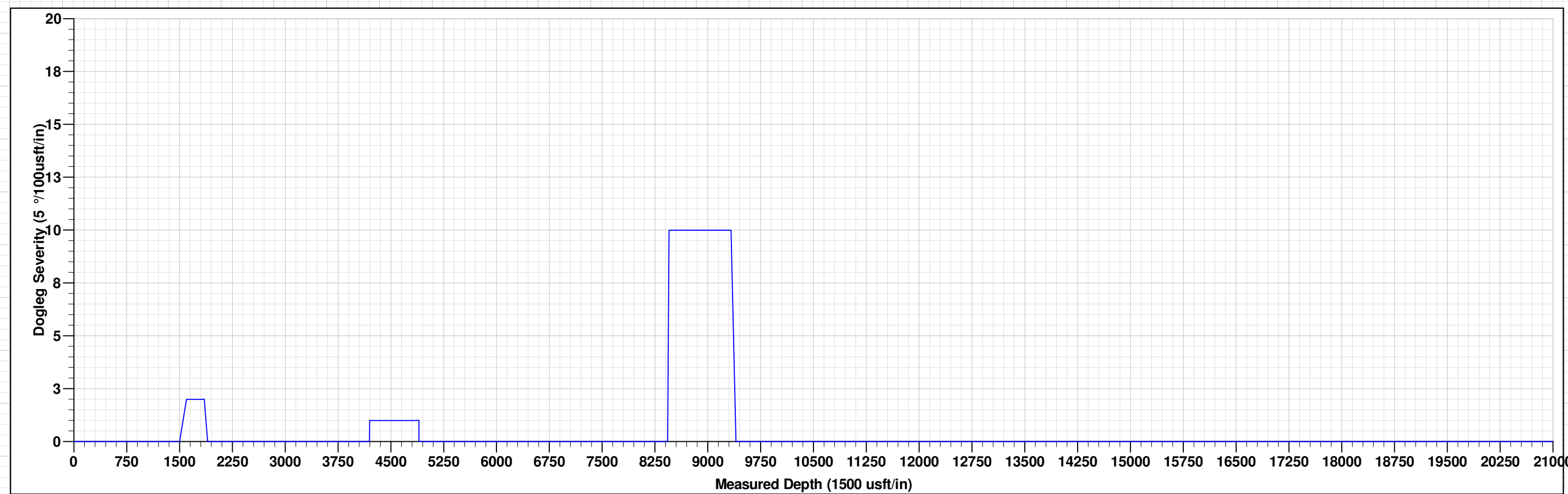
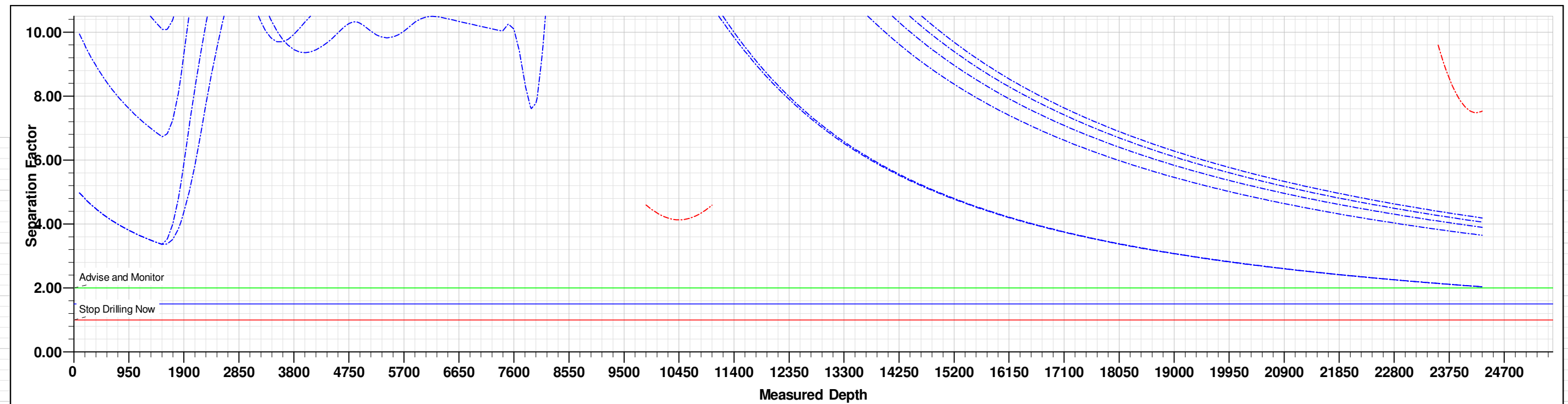
Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #702H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #702H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
FTP (FLAMING SNAIL F - plan misses target center by 237.3usft at 8880.9usft MD (8815.4 TVD, 158.2 N, 123.4 E) - Circle (radius 50.0)	0.00	0.01	8,982.0	327.2	124.8	402,802.00	544,809.60	32° 6' 26.410 N	104° 11' 19.014 W
LTP (FLAMING SNAIL F - plan hits target center - Point	0.00	0.00	8,988.9	-15,106.9	-2.7	387,367.90	544,682.10	32° 3' 53.667 N	104° 11' 20.736 W
PBHL (FLAMING SNAIL - plan hits target center - Rectangle (sides W100.0 H15,564.6 D20.0)	0.03	0.47	8,989.0	-15,236.9	-3.8	387,237.90	544,681.00	32° 3' 52.381 N	104° 11' 20.751 W

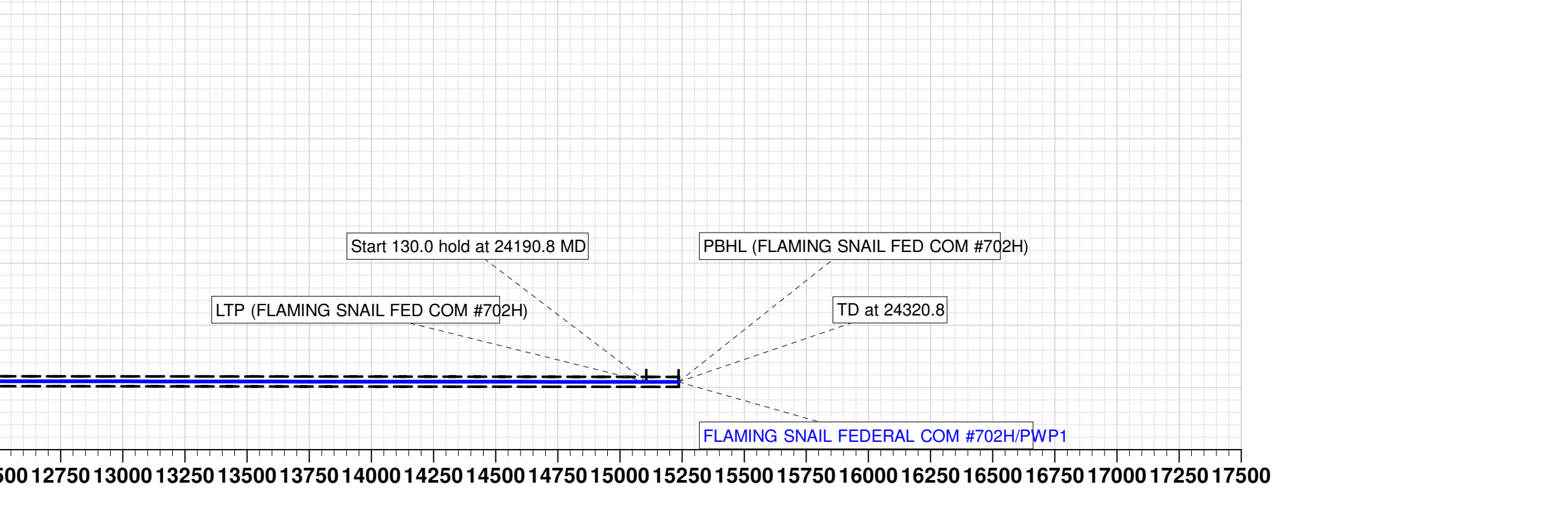
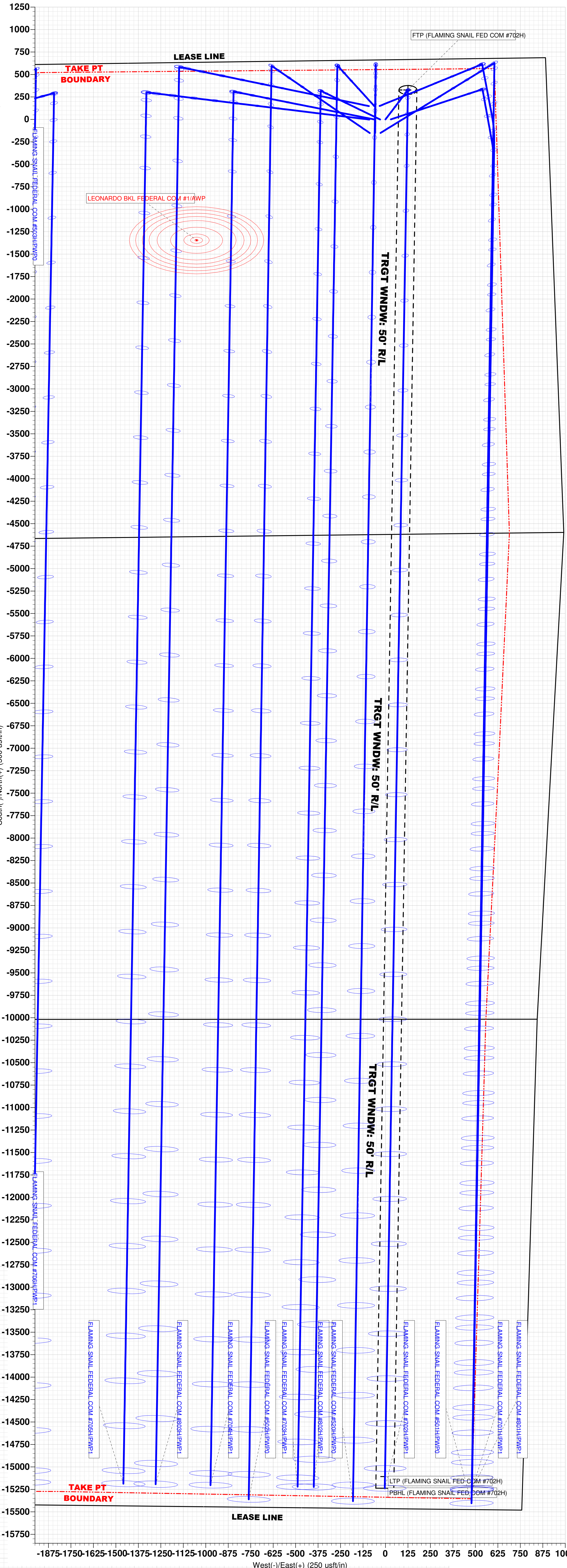
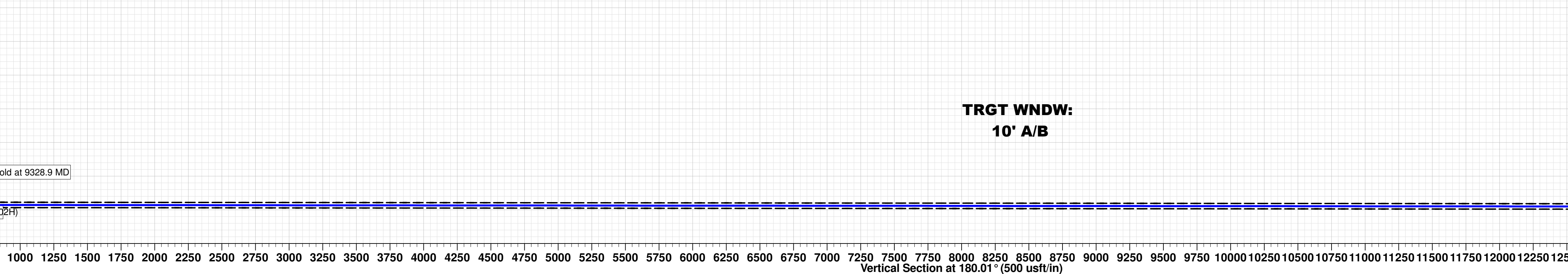
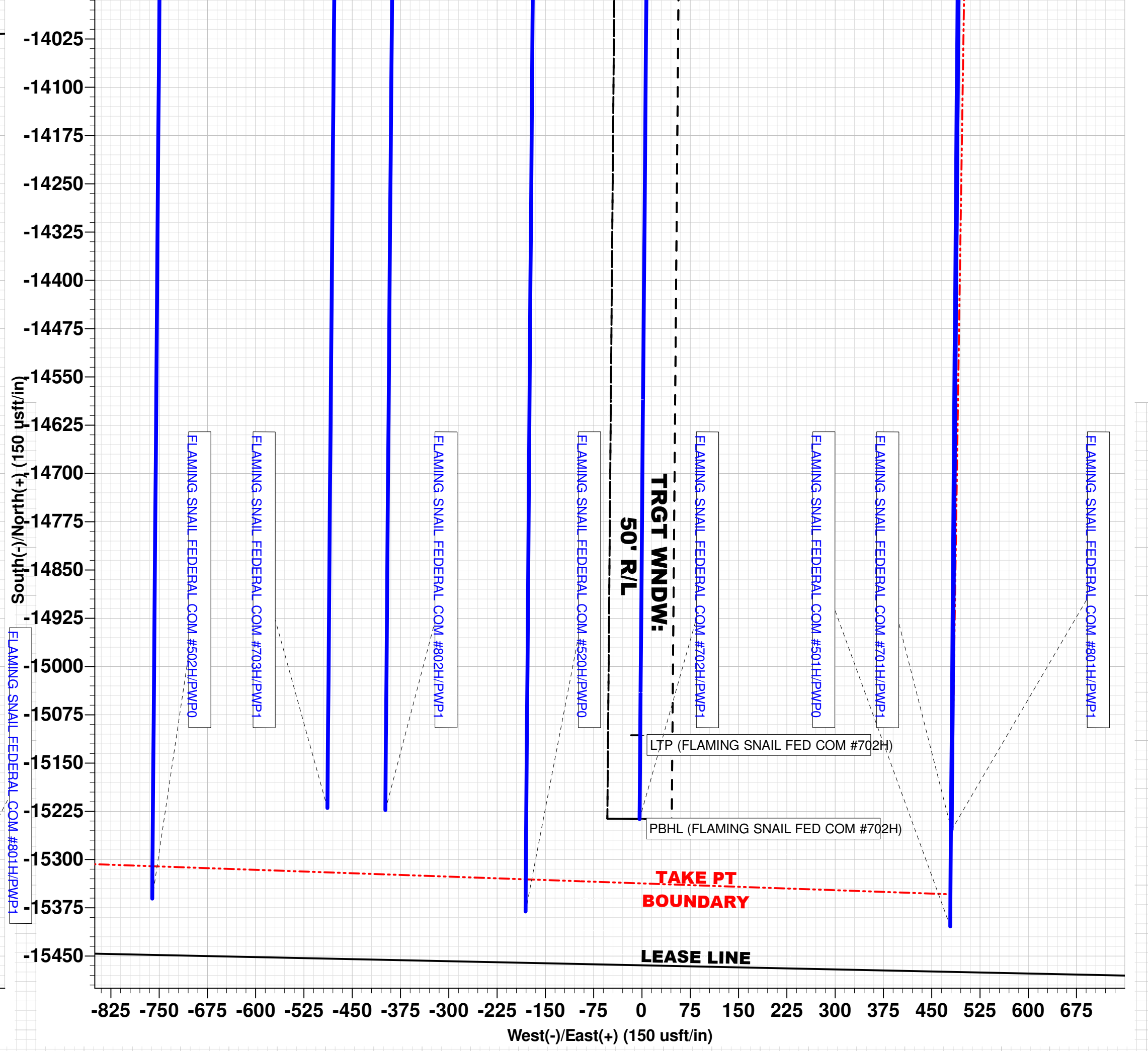
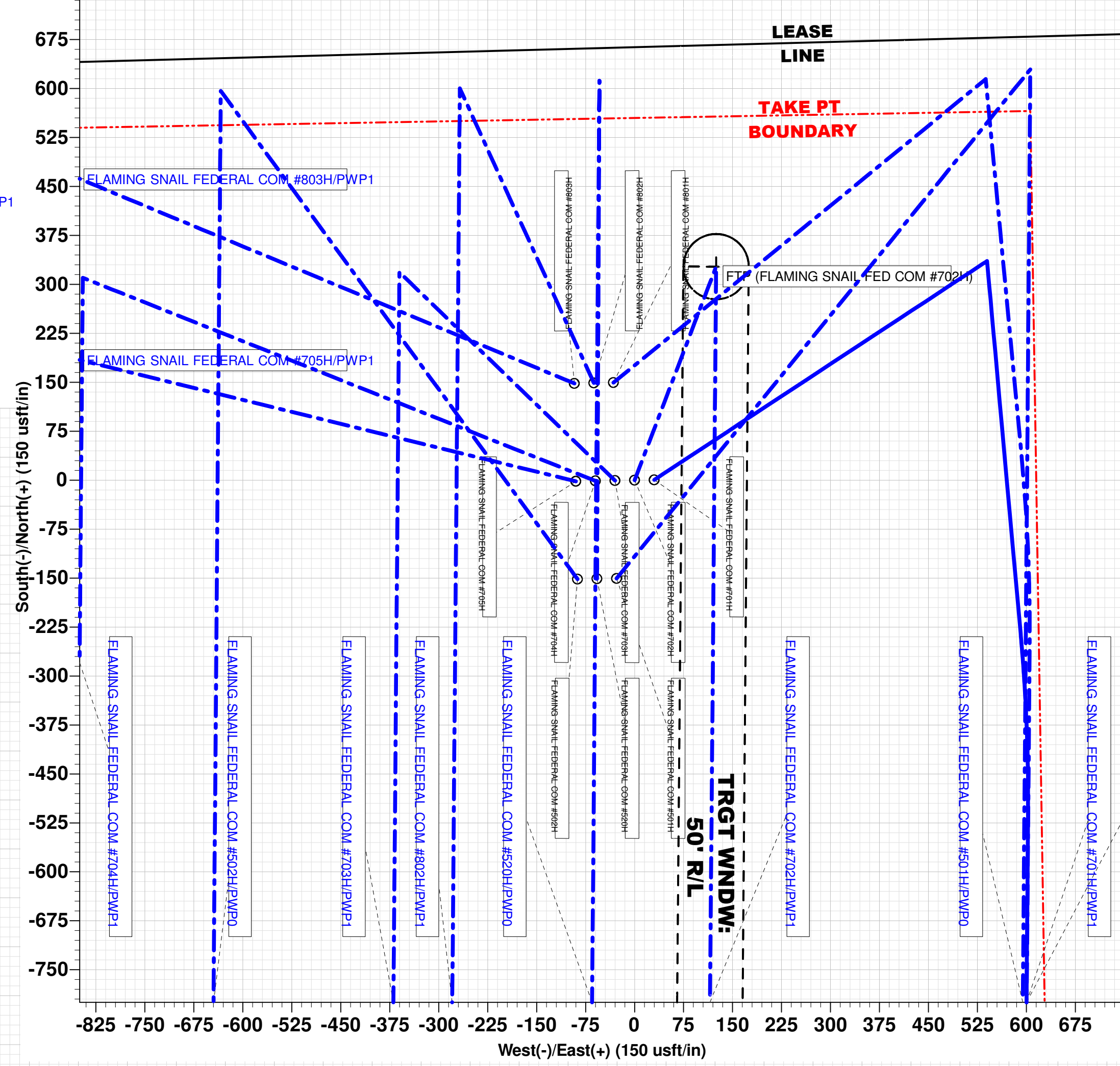
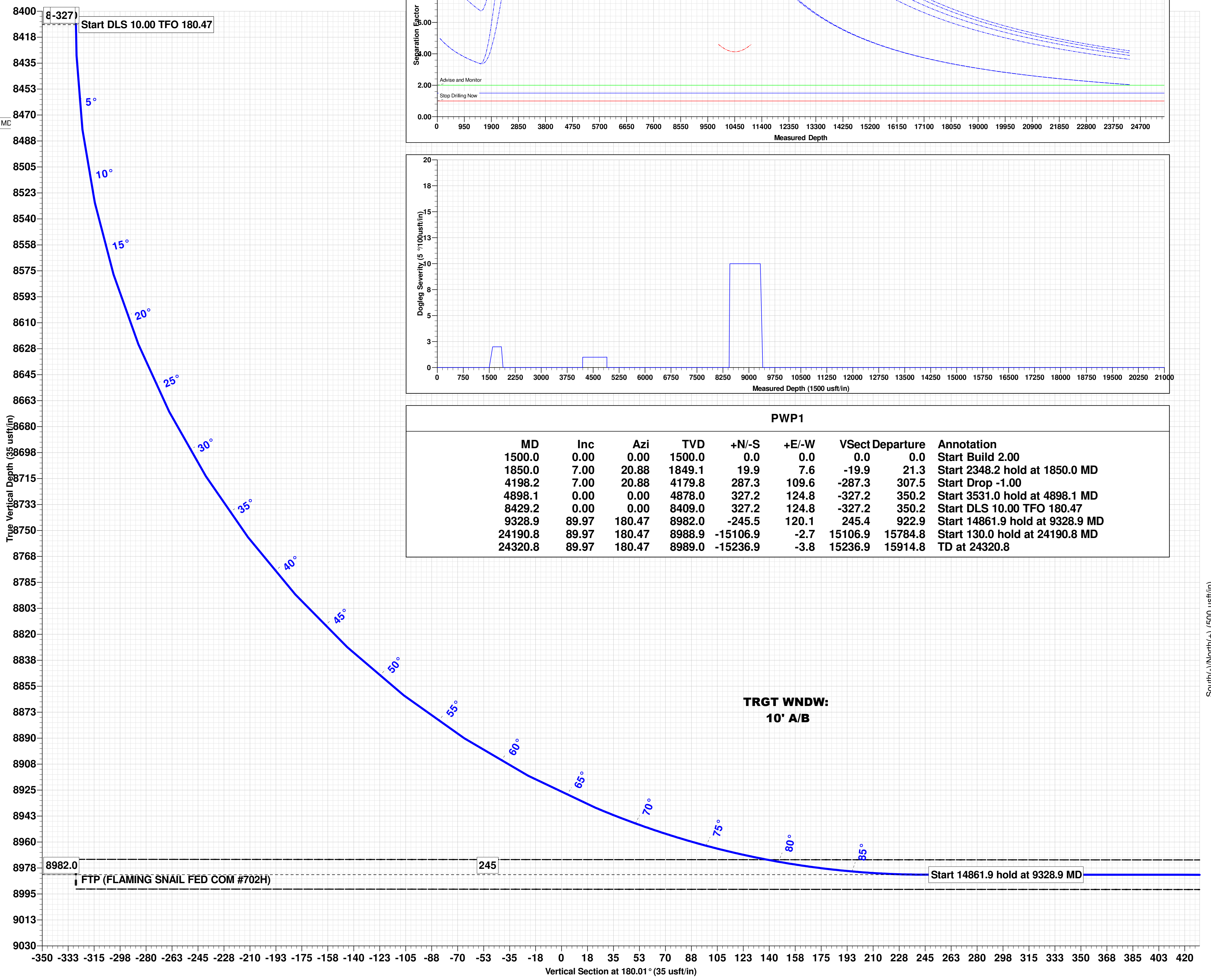
Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00	
1,850.0	1,849.1	19.9	7.6	Start 2348.2 hold at 1850.0 MD	
4,198.2	4,179.8	287.3	109.6	Start Drop -1.00	
4,898.1	4,878.0	327.2	124.8	Start 3531.0 hold at 4898.1 MD	
8,429.2	8,409.0	327.2	124.8	Start DLS 10.00 TFO 180.47	
9,328.9	8,982.0	-245.5	120.1	Start 14861.9 hold at 9328.9 MD	
24,190.8	8,988.9	-15,106.9	-2.7	Start 130.0 hold at 24190.8 MD	
24,320.8	8,989.0	-15,236.9	-3.8	TD at 24320.8	

WELL DETAILS: FLAMING SNAIL FEDERAL COM #702H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402474.80	544684.80	32° 6' 23.174 N	104° 11' 20.470 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP (FLAMING SNAIL FED COM #702H)	8982.0	327.2	124.8	402802.00	544809.60	Circle (Radius: 50.0)
LTP (FLAMING SNAIL FED COM #702H)	8988.9	-15106.9	-2.7	387367.90	544682.10	Point
PBHL (FLAMING SNAIL FED COM #702H)	8969.0	-15236.9	-3.8	387237.90	544681.00	Rectangle (Sides: L15564.6 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	Start Build 2.00		
1850.0	7.00	20.88	1849.1	19.9	7.6	-19.9	Start 2348.2 hold at 1850.0 MD		
4198.2	7.00	20.88	4179.8	287.3	109.6	-287.3	Start Drop -1.00		
4898.1	0.00	0.00	4878.0	327.2	124.8	-327.2	Start 3531.0 hold at 4898.1 MD		
8429.2	0.00	0.00	8409.0	327.2	124.8	-327.2	Start DLS 10.00 TFO 180.47		
9328.9	89.97	180.47	8982.0	-245.5	120.1	245.4	Start 14861.9 hold at 9328.9 MD		
24190.8	89.97	180.47	8988.9	-15106.9	-2.7	15106.9	Start 130.0 hold at 24190.8 MD		
24320.8	89.97	180.47	8969.0	-15236.9	-3.8	15236.9	TD at 24320.8		



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM92167
LOCATION:	Section 28, T.25 S, R.27 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Flaming Snail Fed Com 702H
SURFACE HOLE FOOTAGE:	655'/N & 945'/E
BOTTOM HOLE FOOTAGE:	200'/S & 815'/E

COA

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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H₂S) monitors shall be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area must meet all requirements from **43 CFR 3176**, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

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

- include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 7-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above. **Excess calculates to 24%. Additional cement maybe required.**
- Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**

Option 2:

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

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

C. PRESSURE CONTROL

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

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

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

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

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

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

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

A. CASING

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

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

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

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS 8/2/2023

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

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

EMERGENCY RESPONSE NUMBERS

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

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 260530

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 260530
	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	9/5/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/5/2023
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	9/5/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/5/2023
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	9/5/2023