

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 704H 9. API Well No. 30-015-54153
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 / 1005 FEL / LAT 32.106556 / LONG -104.189707 At proposed prod. zone NWSE / 200 FSL / 1785 FEL / LAT 32.06477 / LONG -104.192721		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. 305 feet 19. Proposed Depth 8973 feet / 24323 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 10/10/2022
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)



Approval Date: 08/25/2023

Additional Operator Remarks

Location of Well

0. SHL: NENE / 655 FNL / 1005 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106556 / LONG: -104.189707 (TVD: 0 feet, MD: 0 feet)
PPP: NWNE / 330 FNL / 1785 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107414 / LONG: -104.192242 (TVD: 8797 feet, MD: 8936 feet)
PPP: SWSE / 1319 FSL / 1785 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097415 / LONG: -104.192354 (TVD: 8967 feet, MD: 12567 feet)
PPP: SWNE / 2639 FSL / 1785 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.079008 / LONG: -104.192561 (TVD: 8967 feet, MD: 16527 feet)
PPP: NWNE / 1 FNL / 1785 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079008 / LONG: -104.192561 (TVD: 8969 feet, MD: 19167 feet)
BHL: NWSE / 200 FSL / 1785 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.06477 / LONG: -104.192721 (TVD: 8973 feet, MD: 24323 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- 54153	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 704H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3129.3'

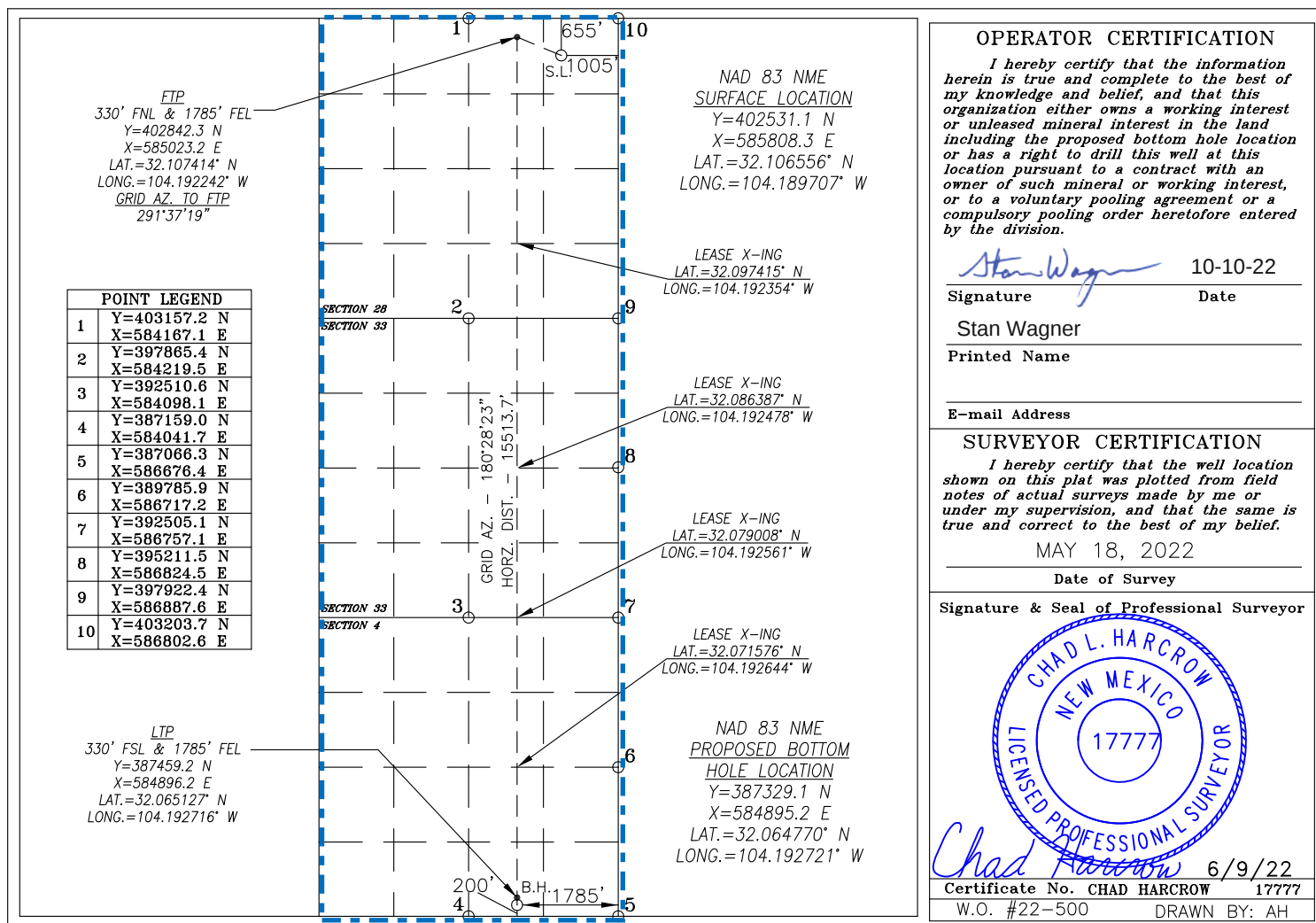
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	25-S	27-E		655	NORTH	1005	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	4	26-S	27-E		200	SOUTH	1785	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

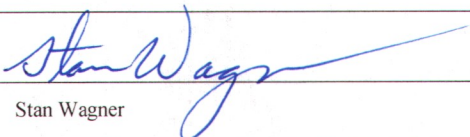
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 704H

1. Geologic Formations

TVD of target	8,973' EOL	Pilot hole depth	NA
MD at TD:	24,323'	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	2173	Salt Water	
Bell Canyon	2221	Salt Water	
Cherry Canyon	3024	Oil/Gas	
Brushy Canyon	4126	Oil/Gas	
Bone Spring Lime	5710	Oil/Gas	
1st Bone Spring Sand	6643	Oil/Gas	
2nd Bone Spring Sand	7152	Oil/Gas	
3rd Bone Spring Sand	8474	Oil/Gas	
Wolfcamp	8805	Oil/Gas	
Wolfcamp A	8893	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	1.92	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	24,323	5.5"	23	P110	W441	2.49	2.94	3.53	3.21
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 704H

	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 704H

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 704H

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 704H

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 704H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5835 psi at 8973' 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

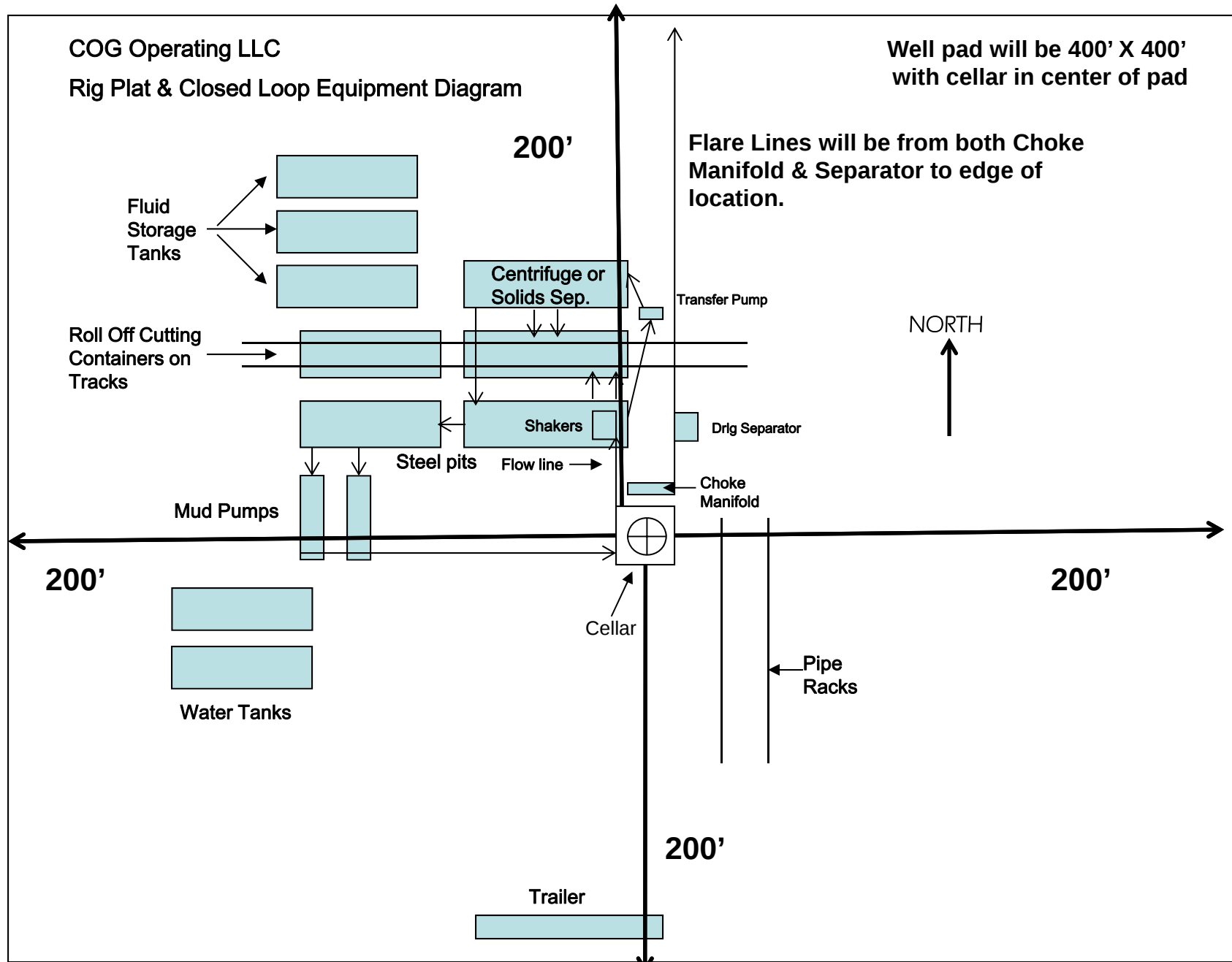


Exhibit 1

"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 #704H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	9/24/2022		
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	8,483.2	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
8,483.2	24,323.6	PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #14H - OWB - AWP						Out of range
CICADA UNIT #16H - OWB - AWP						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	1,500.0	1,499.6	152.9	144.6	18.556	CC, ES
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	1,710.0	1,709.4	157.3	148.6	18.039	SF
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	1,500.0	1,500.3	153.0	144.7	18.552	CC
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	1,520.0	1,520.3	153.0	144.7	18.473	ES
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	7,572.9	7,694.8	209.0	171.1	5.509	SF
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	7,514.9	7,653.1	1,101.1	1,061.3	27.638	CC, ES
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	7,600.0	7,696.8	1,103.4	1,063.4	27.576	SF
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,500.0	1,499.9	149.9	141.7	18.135	CC
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,520.0	1,519.9	149.9	141.6	18.059	ES
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,323.6	23,607.9	1,281.4	1,037.4	5.251	SF
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,500.0	1,500.0	90.0	81.1	10.137	CC, ES
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,520.0	1,519.5	90.1	81.2	10.076	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,500.0	1,499.9	60.0	51.1	6.758	CC, ES
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	24,323.6	24,294.6	970.0	731.6	4.068	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,500.0	1,500.0	30.0	21.1	3.379	CC
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,520.0	1,520.1	30.0	21.1	3.357	ES
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,323.6	24,285.4	485.0	246.2	2.031	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,500.0	1,499.9	30.0	21.1	3.379	CC
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,805.0	1,801.8	30.6	20.3	2.974	ES
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,323.6	24,345.4	485.1	243.8	2.011	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	8,455.0	8,477.7	998.6	956.1	23.531	CC
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,300.0	24,276.1	1,007.4	769.0	4.226	ES
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,320.0	24,278.2	1,007.6	769.1	4.224	SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,500.0	1,496.0	153.1	143.7	16.256	CC

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	1,520.0	1,515.4	153.1	143.7	16.176	ES
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,710.0	1,697.2	157.5	147.4	15.678	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,508.2	1,503.4	150.0	140.6	15.865	CC
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,520.0	1,514.7	150.0	140.5	15.810	ES
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,323.6	25,392.3	1,006.0	760.5	4.097	SF
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	2,209.2	2,184.2	151.9	139.9	12.626	CC
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	4,655.0	4,629.5	159.2	133.3	6.146	ES
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,323.6	25,430.7	864.2	617.5	3.503	SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	8,483.2	8,501.2	1,204.1	1,164.2	30.144	CC, ES
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	8,500.0	8,518.0	1,204.2	1,164.2	30.138	SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1						Out of range
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	10,466.2	8,938.2	192.1	-95.8	0.667	Advise and Monitor, CC, ES,
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW						Out of range

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #14H - OWB - AWP	24,323.6	9,108.5				Out of Range @TD
CICADA UNIT #16H - OWB - AWP	24,323.6	9,156.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	24,323.6	23,291.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	24,323.6	23,218.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	24,323.6	23,186.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	24,323.6	23,107.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,323.6	23,607.9	1,281.4	1,037.4	5.251	SF
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	24,323.6	23,493.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	24,323.6	24,366.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	24,323.6	24,294.6	970.0	731.6	4.068	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,323.6	24,285.4	485.0	246.2	2.031	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,323.6	24,345.4	485.1	243.8	2.011	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,323.6	24,278.2	1,007.7	769.1	4.224	
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,323.6	24,197.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,323.6	24,170.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	24,323.6	24,202.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	24,323.6	24,229.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,323.6	25,475.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,323.6	25,392.3	1,006.0	760.5	4.097	SF
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,323.6	25,430.7	864.2	617.5	3.503	SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,323.6	25,359.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	24,323.6	25,284.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	24,323.6	25,330.7				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	24,323.6	8,947.4				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	24,323.6	7,054.0				Out of Range @TD

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:							
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	167.76	-149.4	32.4	152.9				
95.0	95.0	94.6	94.6	3.0	3.0	167.76	-149.4	32.4	152.9	146.9	6.02	25.402	
100.0	100.0	99.6	99.6	3.0	3.0	167.76	-149.4	32.4	152.9	146.9	6.02	25.390	
190.0	190.0	189.6	189.6	3.1	3.0	167.76	-149.4	32.4	152.9	146.7	6.13	24.925	
200.0	200.0	199.6	199.6	3.1	3.0	167.76	-149.4	32.4	152.9	146.7	6.15	24.851	
285.0	285.0	284.6	284.6	3.3	3.0	167.76	-149.4	32.4	152.9	146.6	6.26	24.406	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		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)			
300.0	300.0	299.6	299.6	3.3	3.0	167.76	-149.4	32.4	152.9	146.6	6.29	24.317		
380.0	380.0	379.6	379.6	3.4	3.0	167.76	-149.4	32.4	152.9	146.5	6.40	23.901		
400.0	400.0	399.6	399.6	3.4	3.0	167.76	-149.4	32.4	152.9	146.4	6.43	23.790		
475.0	475.0	474.6	474.6	3.5	3.0	167.76	-149.4	32.4	152.9	146.3	6.53	23.403		
500.0	500.0	499.6	499.6	3.5	3.1	167.76	-149.4	32.4	152.9	146.3	6.57	23.268		
570.0	570.0	569.6	569.6	3.6	3.1	167.76	-149.4	32.4	152.9	146.2	6.67	22.912		
600.0	600.0	599.6	599.6	3.6	3.1	167.76	-149.4	32.4	152.9	146.2	6.72	22.754		
665.0	665.0	664.6	664.6	3.7	3.1	167.76	-149.4	32.4	152.9	146.1	6.82	22.428		
700.0	700.0	699.6	699.6	3.8	3.1	167.76	-149.4	32.4	152.9	146.0	6.87	22.248		
760.0	760.0	759.6	759.6	3.8	3.1	167.76	-149.4	32.4	152.9	145.9	6.96	21.951		
800.0	800.0	799.6	799.6	3.9	3.2	167.76	-149.4	32.4	152.9	145.8	7.03	21.751		
855.0	855.0	854.6	854.6	4.0	3.2	167.76	-149.4	32.4	152.9	145.8	7.12	21.483		
900.0	900.0	899.6	899.6	4.0	3.2	167.76	-149.4	32.4	152.9	145.7	7.19	21.263		
950.0	950.0	949.6	949.6	4.1	3.2	167.76	-149.4	32.4	152.9	145.6	7.27	21.024		
1,000.0	1,000.0	999.6	999.6	4.1	3.2	167.76	-149.4	32.4	152.9	145.5	7.36	20.784		
1,045.0	1,045.0	1,044.6	1,044.6	4.2	3.3	167.76	-149.4	32.4	152.9	145.4	7.43	20.574		
1,100.0	1,100.0	1,099.6	1,099.6	4.2	3.3	167.76	-149.4	32.4	152.9	145.3	7.52	20.316		
1,140.0	1,140.0	1,139.6	1,139.6	4.3	3.3	167.76	-149.4	32.4	152.9	145.3	7.59	20.133		
1,200.0	1,200.0	1,199.6	1,199.6	4.4	3.4	167.76	-149.4	32.4	152.9	145.2	7.70	19.859		
1,235.0	1,235.0	1,234.6	1,234.6	4.4	3.4	167.76	-149.4	32.4	152.9	145.1	7.76	19.703		
1,300.0	1,300.0	1,299.6	1,299.6	4.5	3.4	167.76	-149.4	32.4	152.9	145.0	7.87	19.413		
1,330.0	1,330.0	1,329.6	1,329.6	4.5	3.4	167.76	-149.4	32.4	152.9	144.9	7.93	19.283		
1,400.0	1,400.0	1,399.6	1,399.6	4.6	3.5	167.76	-149.4	32.4	152.9	144.8	8.05	18.979		
1,425.0	1,425.0	1,424.6	1,424.6	4.6	3.5	167.76	-149.4	32.4	152.9	144.8	8.10	18.873		
1,500.0	1,500.0	1,499.6	1,499.6	4.7	3.5	167.76	-149.4	32.4	152.9	144.6	8.24	18.556 CC, ES		
1,520.0	1,520.0	1,519.6	1,519.6	4.7	3.6	-123.88	-149.4	32.4	152.9	144.6	8.28	18.479		
1,600.0	1,600.0	1,599.6	1,599.6	4.8	3.6	-124.38	-149.4	32.4	153.9	145.4	8.44	18.239		
1,615.0	1,615.0	1,614.6	1,614.6	4.9	3.6	-124.55	-149.4	32.4	154.2	145.7	8.47	18.196		
1,700.0	1,699.8	1,699.4	1,699.4	5.0	3.7	-125.91	-149.4	32.4	156.9	148.2	8.69	18.045		
1,710.0	1,709.8	1,709.4	1,709.4	5.1	3.7	-126.11	-149.4	32.4	157.3	148.6	8.72	18.039 SF		
1,800.0	1,799.5	1,799.1	1,799.1	5.3	3.8	-128.32	-149.4	32.4	162.1	153.2	8.96	18.091		
1,805.0	1,804.4	1,804.0	1,804.0	5.3	3.8	-128.46	-149.4	32.4	162.5	153.5	8.98	18.099		
1,900.0	1,898.7	1,898.3	1,898.3	5.6	3.9	-131.41	-149.4	32.4	170.0	160.7	9.25	18.377		
1,995.0	1,992.5	1,992.1	1,992.1	5.9	3.9	-134.77	-149.4	32.4	180.2	170.6	9.55	18.870		
2,000.0	1,997.5	1,997.1	1,997.1	5.9	3.9	-134.95	-149.4	32.4	180.8	171.2	9.56	18.902		
2,090.0	2,085.8	2,087.8	2,087.8	6.2	4.1	-138.79	-148.4	33.2	192.7	182.8	9.93	19.400		
2,100.0	2,095.6	2,097.8	2,097.8	6.2	4.1	-139.27	-148.1	33.5	194.2	184.2	9.97	19.471		
2,185.0	2,178.5	2,182.4	2,182.3	6.6	4.4	-143.59	-144.9	36.1	207.7	197.3	10.39	19.979		
2,200.1	2,193.2	2,197.3	2,197.1	6.6	4.4	-144.40	-144.1	36.7	210.3	199.8	10.47	20.085		
2,280.0	2,270.7	2,275.6	2,275.2	6.9	4.6	-148.84	-139.1	40.8	224.9	214.0	10.84	20.737		
2,300.0	2,290.1	2,295.1	2,294.6	6.9	4.7	-149.94	-137.6	42.0	228.7	217.7	10.94	20.903		
2,375.0	2,362.9	2,367.8	2,366.8	7.2	4.9	-154.01	-131.1	47.3	243.3	232.0	11.30	21.534		
2,400.0	2,387.1	2,391.9	2,390.7	7.2	5.0	-155.34	-128.6	49.3	248.4	237.0	11.42	21.751		
2,470.0	2,455.0	2,458.8	2,456.8	7.5	5.2	-159.02	-120.9	55.5	263.2	251.4	11.77	22.370		
2,500.0	2,484.1	2,487.3	2,484.9	7.6	5.3	-160.56	-117.3	58.5	269.9	257.9	11.92	22.647		
2,565.0	2,547.2	2,548.4	2,545.1	7.8	5.6	-163.83	-108.8	65.4	284.9	272.7	12.25	23.262		
2,600.0	2,581.2	2,581.1	2,577.1	8.0	5.7	-165.55	-103.8	69.4	293.4	281.0	12.43	23.608		
2,660.0	2,639.4	2,636.6	2,631.3	8.2	5.9	-168.43	-94.7	76.8	308.7	295.9	12.75	24.217		
2,700.0	2,678.2	2,673.2	2,667.0	8.3	6.0	-170.29	-88.3	82.0	319.3	306.4	12.96	24.640		
2,755.0	2,731.6	2,723.6	2,715.9	8.5	6.2	-172.78	-78.9	89.7	334.6	321.3	13.26	25.233		
2,800.0	2,775.2	2,765.1	2,756.3	8.7	6.4	-174.69	-71.1	96.0	347.6	334.1	13.51	25.722		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS								Rule Assigned:		Offset Well Error: 3.0 usft		
Offset		Semi Major Axis		Offset Wellbore Centre		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,850.0	2,823.7	2,811.3	2,801.1	8.9	6.5	-176.67	-62.4	103.0	362.4	348.6	13.80	26.261		
2,900.0	2,872.3	2,857.5	2,845.9	9.1	6.7	-178.50	-53.8	110.1	377.6	363.6	14.09	26.800		
2,945.0	2,915.9	2,899.1	2,886.2	9.3	6.8	179.97	-46.0	116.4	391.6	377.3	14.36	27.274		
3,000.0	2,969.3	2,949.9	2,935.5	9.5	7.0	178.24	-36.4	124.2	409.1	394.4	14.69	27.847		
3,040.0	3,008.1	2,986.9	2,971.4	9.7	7.1	177.07	-29.5	129.8	422.0	407.0	14.94	28.253		
3,100.0	3,066.3	3,042.3	3,025.2	9.9	7.3	175.43	-19.1	138.3	441.6	426.3	15.31	28.849		
3,135.0	3,100.3	3,074.6	3,056.6	10.1	7.5	174.54	-13.0	143.2	453.2	437.7	15.53	29.187		
3,200.0	3,163.3	3,134.7	3,114.8	10.4	7.7	172.99	-1.7	152.4	475.0	459.0	15.94	29.798		
3,230.0	3,192.4	3,162.4	3,141.7	10.5	7.8	172.32	3.5	156.6	485.1	469.0	16.13	30.071		
3,300.0	3,260.4	3,227.1	3,204.5	10.8	8.1	170.87	15.6	166.5	509.0	492.4	16.59	30.690		
3,325.0	3,284.6	3,250.2	3,226.9	10.9	8.2	170.38	20.0	170.0	517.6	500.9	16.75	30.903		
3,400.0	3,357.4	3,319.5	3,294.1	11.2	8.4	169.00	33.0	180.6	543.6	526.4	17.24	31.525		
3,420.0	3,376.8	3,337.9	3,312.0	11.3	8.5	168.66	36.4	183.4	550.6	533.2	17.38	31.685		
3,500.0	3,454.4	3,411.9	3,383.8	11.6	8.8	167.36	50.3	194.7	578.7	560.8	17.91	32.304		
3,515.0	3,469.0	3,425.7	3,397.2	11.7	8.9	167.13	52.9	196.8	584.0	566.0	18.02	32.416		
3,600.0	3,551.5	3,504.2	3,473.4	12.1	9.2	165.90	67.7	208.8	614.2	595.6	18.59	33.031		
3,610.0	3,561.2	3,513.5	3,482.4	12.1	9.2	165.76	69.4	210.2	617.7	599.1	18.66	33.101		
3,700.0	3,648.5	3,596.6	3,563.0	12.5	9.6	164.59	85.0	222.9	650.0	630.7	19.28	33.708		
3,705.0	3,653.3	3,601.2	3,567.5	12.6	9.6	164.53	85.9	223.6	651.8	632.4	19.32	33.740		
3,800.0	3,745.5	3,689.0	3,652.7	13.0	10.0	163.42	102.4	237.0	686.0	666.0	19.98	34.338		
3,895.0	3,837.7	3,776.8	3,737.8	13.4	10.4	162.42	118.9	250.3	720.5	699.8	20.65	34.897		
3,900.0	3,842.5	3,781.4	3,742.3	13.4	10.4	162.37	119.7	251.1	722.3	701.6	20.68	34.926		
3,990.0	3,929.9	3,864.6	3,823.0	13.8	10.8	161.50	135.3	263.7	755.1	733.8	21.32	35.420		
4,000.0	3,939.6	3,873.8	3,832.0	13.9	10.8	161.41	137.1	265.1	758.8	737.4	21.39	35.474		
4,085.0	4,022.0	3,952.3	3,908.2	14.3	11.2	160.67	151.8	277.1	789.9	767.9	22.00	35.910		
4,100.0	4,036.6	3,966.2	3,921.6	14.3	11.2	160.54	154.4	279.2	795.4	773.3	22.10	35.985		
4,180.0	4,114.2	4,040.1	3,993.3	14.7	11.6	159.90	168.3	290.5	824.8	802.1	22.68	36.370		
4,200.0	4,133.6	4,058.6	4,011.3	14.8	11.6	159.75	171.8	293.3	832.2	809.4	22.82	36.463		
4,275.0	4,206.4	4,127.9	4,078.5	15.1	12.0	159.20	184.8	303.9	859.9	836.5	23.37	36.801		
4,300.0	4,230.7	4,151.0	4,100.9	15.3	12.1	159.02	189.1	307.4	869.1	845.6	23.55	36.910		
4,370.0	4,298.6	4,215.6	4,163.6	15.6	12.4	158.55	201.3	317.3	895.0	871.0	24.06	37.206		
4,400.0	4,327.7	4,243.3	4,190.5	15.7	12.5	158.35	206.5	321.5	906.1	881.9	24.27	37.329		
4,465.0	4,390.7	4,303.4	4,248.8	16.0	12.8	157.95	217.8	330.7	930.3	905.5	24.75	37.587		
4,500.0	4,424.7	4,335.7	4,280.2	16.2	12.9	157.74	223.8	335.6	943.3	918.3	25.01	37.722		
4,560.0	4,482.9	4,391.2	4,334.0	16.5	13.2	157.39	234.2	344.1	965.6	940.1	25.45	37.946		
4,600.0	4,521.7	4,428.1	4,369.8	16.6	13.3	157.17	241.2	349.7	980.5	954.7	25.74	38.091		
4,634.9	4,555.6	4,460.4	4,401.1	16.8	13.5	156.98	247.2	354.6	993.5	967.5	25.99	38.229		
4,655.0	4,575.1	4,478.9	4,419.1	16.9	13.6	156.90	250.7	357.5	1,000.9	974.8	26.13	38.303		
4,700.0	4,618.9	4,520.6	4,459.6	17.1	13.8	156.73	258.5	363.8	1,017.5	991.0	26.46	38.458		
4,750.0	4,667.6	4,567.0	4,504.6	17.3	14.0	156.54	267.3	370.9	1,035.5	1,008.6	26.82	38.601		
4,800.0	4,716.3	4,613.6	4,549.8	17.6	14.2	156.35	276.0	378.0	1,053.1	1,025.9	27.19	38.726		
4,845.0	4,760.3	4,655.6	4,590.5	17.8	14.4	156.17	283.9	384.4	1,068.7	1,041.2	27.52	38.827		
4,900.0	4,814.2	4,707.1	4,640.5	18.0	14.6	155.95	293.6	392.3	1,087.3	1,059.4	27.93	38.931		
4,940.0	4,853.5	4,744.6	4,676.9	18.2	14.8	155.79	300.6	398.0	1,100.6	1,072.4	28.22	38.997		
5,000.0	4,912.4	4,801.0	4,731.6	18.5	15.1	155.55	311.2	406.6	1,120.2	1,091.5	28.67	39.078		
5,035.0	4,946.9	4,834.0	4,763.6	18.6	15.2	155.40	317.4	411.6	1,131.3	1,102.4	28.92	39.117		
5,100.0	5,010.9	4,895.3	4,823.2	18.9	15.5	155.13	328.9	421.0	1,151.6	1,122.2	29.40	39.173		
5,130.0	5,040.6	4,923.7	4,850.7	19.0	15.6	155.00	334.2	425.3	1,160.7	1,131.1	29.62	39.193		
5,200.0	5,109.8	4,990.1	4,915.1	19.3	15.9	154.70	346.7	435.5	1,181.6	1,151.5	30.13	39.221		
5,225.0	5,134.5	5,013.8	4,938.1	19.4	16.1	154.59	351.2	439.1	1,188.9	1,158.6	30.31	39.228		
5,300.0	5,208.8	5,085.2	5,007.4	19.8	16.4	154.26	364.6	450.0	1,210.2	1,179.3	30.85	39.229		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program:	0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		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		
5,320.0	5,228.7	5,104.3	5,025.9	19.8	16.5	154.17	368.2	452.9	1,215.8	1,184.8	30.99	39.227	
5,400.0	5,308.1	5,180.7	5,100.0	20.2	16.8	153.80	382.5	464.5	1,237.4	1,205.8	31.57	39.200	
5,415.0	5,323.0	5,195.0	5,114.0	20.2	16.9	153.73	385.2	466.7	1,241.4	1,209.7	31.67	39.194	
5,500.0	5,407.6	5,276.5	5,193.0	20.6	17.3	153.33	400.5	479.2	1,263.2	1,231.0	32.27	39.140	
5,510.0	5,417.5	5,286.1	5,202.3	20.6	17.3	153.28	402.3	480.6	1,265.7	1,233.4	32.34	39.133	
5,600.0	5,507.2	5,372.5	5,286.2	20.9	17.8	152.84	418.5	493.8	1,287.7	1,254.7	32.97	39.052	
5,605.0	5,512.2	5,377.3	5,290.8	21.0	17.8	152.81	419.4	494.5	1,288.9	1,255.9	33.01	39.048	
5,700.0	5,607.0	5,468.9	5,379.6	21.3	18.2	152.33	436.6	508.5	1,310.8	1,277.1	33.66	38.943	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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			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		
0.0	0.0	0.3	0.3	3.0	3.0	-169.64	-150.5	-27.5	153.0					
95.0	95.0	95.3	95.3	3.0	3.0	-169.64	-150.5	-27.5	153.0	147.0	6.02	25.422		
100.0	100.0	100.3	100.3	3.0	3.0	-169.64	-150.5	-27.5	153.0	147.0	6.02	25.410		
190.0	190.0	190.3	190.3	3.1	3.0	-169.64	-150.5	-27.5	153.0	146.9	6.13	24.944		
200.0	200.0	200.3	200.3	3.1	3.0	-169.64	-150.5	-27.5	153.0	146.8	6.15	24.870		
285.0	285.0	285.3	285.3	3.3	3.0	-169.64	-150.5	-27.5	153.0	146.7	6.26	24.423		
300.0	300.0	300.3	300.3	3.3	3.0	-169.64	-150.5	-27.5	153.0	146.7	6.29	24.335		
380.0	380.0	380.3	380.3	3.4	3.0	-169.64	-150.5	-27.5	153.0	146.6	6.40	23.917		
400.0	400.0	400.3	400.3	3.4	3.0	-169.64	-150.5	-27.5	153.0	146.6	6.43	23.806		
475.0	475.0	475.3	475.3	3.5	3.0	-169.64	-150.5	-27.5	153.0	146.5	6.53	23.417		
500.0	500.0	500.3	500.3	3.5	3.1	-169.64	-150.5	-27.5	153.0	146.4	6.57	23.283		
570.0	570.0	570.3	570.3	3.6	3.1	-169.64	-150.5	-27.5	153.0	146.3	6.67	22.925		
600.0	600.0	600.3	600.3	3.6	3.1	-169.64	-150.5	-27.5	153.0	146.3	6.72	22.767		
665.0	665.0	665.3	665.3	3.7	3.1	-169.64	-150.5	-27.5	153.0	146.2	6.82	22.439		
700.0	700.0	700.3	700.3	3.8	3.1	-169.64	-150.5	-27.5	153.0	146.1	6.87	22.259		
760.0	760.0	760.3	760.3	3.8	3.1	-169.64	-150.5	-27.5	153.0	146.0	6.97	21.961		
800.0	800.0	800.3	800.3	3.9	3.2	-169.64	-150.5	-27.5	153.0	146.0	7.03	21.759		
855.0	855.0	855.3	855.3	4.0	3.2	-169.64	-150.5	-27.5	153.0	145.9	7.12	21.491		
900.0	900.0	900.3	900.3	4.0	3.2	-169.64	-150.5	-27.5	153.0	145.8	7.19	21.269		
950.0	950.0	950.3	950.3	4.1	3.2	-169.64	-150.5	-27.5	153.0	145.7	7.28	21.029		
1,000.0	1,000.0	1,000.3	1,000.3	4.1	3.2	-169.64	-150.5	-27.5	153.0	145.6	7.36	20.789		
1,045.0	1,045.0	1,045.3	1,045.3	4.2	3.3	-169.64	-150.5	-27.5	153.0	145.6	7.43	20.577		
1,100.0	1,100.0	1,100.3	1,100.3	4.2	3.3	-169.64	-150.5	-27.5	153.0	145.5	7.53	20.319		
1,140.0	1,140.0	1,140.3	1,140.3	4.3	3.3	-169.64	-150.5	-27.5	153.0	145.4	7.60	20.135		
1,200.0	1,200.0	1,200.3	1,200.3	4.4	3.4	-169.64	-150.5	-27.5	153.0	145.3	7.70	19.860		
1,235.0	1,235.0	1,235.3	1,235.3	4.4	3.4	-169.64	-150.5	-27.5	153.0	145.2	7.76	19.703		
1,300.0	1,300.0	1,300.3	1,300.3	4.5	3.4	-169.64	-150.5	-27.5	153.0	145.1	7.88	19.412		
1,330.0	1,330.0	1,330.3	1,330.3	4.5	3.4	-169.64	-150.5	-27.5	153.0	145.1	7.93	19.281		
1,400.0	1,400.0	1,400.3	1,400.3	4.6	3.5	-169.64	-150.5	-27.5	153.0	144.9	8.06	18.976		
1,425.0	1,425.0	1,425.3	1,425.3	4.6	3.5	-169.64	-150.5	-27.5	153.0	144.9	8.11	18.869		
1,500.0	1,500.0	1,500.3	1,500.3	4.7	3.5	-169.64	-150.5	-27.5	153.0	144.7	8.25	18.552 CC		
1,520.0	1,520.0	1,520.3	1,520.3	4.7	3.6	-101.29	-150.5	-27.5	153.0	144.7	8.28	18.473 ES		
1,600.0	1,600.0	1,600.3	1,600.3	4.8	3.6	-101.90	-150.5	-27.5	153.3	144.9	8.42	18.211		
1,615.0	1,615.0	1,615.3	1,615.3	4.9	3.6	-102.10	-150.5	-27.5	153.5	145.0	8.46	18.148		
1,700.0	1,699.8	1,700.1	1,700.1	5.0	3.7	-103.77	-150.5	-27.5	154.5	145.8	8.66	17.840		
1,710.0	1,709.8	1,710.1	1,710.1	5.1	3.7	-104.03	-150.5	-27.5	154.7	146.0	8.69	17.809		
1,800.0	1,799.5	1,799.8	1,799.8	5.3	3.8	-106.81	-150.5	-27.5	156.8	147.9	8.91	17.593		
1,805.0	1,804.4	1,804.7	1,804.7	5.3	3.8	-106.99	-150.5	-27.5	157.0	148.0	8.93	17.585		
1,900.0	1,898.7	1,899.0	1,899.0	5.6	3.9	-110.87	-150.5	-27.5	160.8	151.6	9.18	17.507		
1,995.0	1,992.5	1,992.8	1,992.8	5.9	3.9	-115.47	-150.5	-27.5	166.7	157.2	9.46	17.609		
2,000.0	1,997.5	1,997.8	1,997.8	5.9	3.9	-115.73	-150.5	-27.5	167.0	157.6	9.48	17.620		
2,090.0	2,085.8	2,091.1	2,091.1	6.2	4.1	-120.62	-149.3	-28.4	174.0	164.1	9.90	17.573		
2,100.0	2,095.6	2,101.5	2,101.5	6.2	4.2	-121.16	-149.0	-28.6	174.7	164.8	9.95	17.558		
2,185.0	2,178.5	2,190.1	2,190.0	6.6	4.4	-125.77	-145.4	-31.2	181.4	170.9	10.45	17.348		
2,200.1	2,193.2	2,205.9	2,205.7	6.6	4.4	-126.60	-144.5	-31.9	182.5	172.0	10.55	17.306		
2,280.0	2,270.7	2,289.6	2,289.1	6.9	4.7	-130.79	-138.7	-36.1	188.3	177.2	11.04	17.044		
2,300.0	2,290.1	2,310.7	2,310.1	6.9	4.8	-131.77	-136.9	-37.4	189.5	178.3	11.17	16.957		
2,375.0	2,362.9	2,389.9	2,388.7	7.2	5.0	-135.25	-129.1	-43.1	193.2	181.5	11.68	16.548		
2,400.0	2,387.1	2,416.4	2,414.9	7.2	5.1	-136.35	-126.1	-45.3	194.1	182.3	11.85	16.386		
2,470.0	2,455.0	2,490.7	2,488.3	7.5	5.4	-139.32	-116.6	-52.2	195.9	183.5	12.35	15.860		
2,500.0	2,484.1	2,522.6	2,519.7	7.6	5.5	-140.55	-112.1	-55.5	196.2	183.7	12.57	15.608		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		
2,565.0	2,547.2	2,591.8	2,587.6	7.8	5.7	-143.17	-101.3	-63.4	196.1	183.1	13.07	15.006		
2,600.0	2,581.2	2,629.0	2,624.0	8.0	5.9	-144.57	-95.0	-68.1	195.6	182.2	13.34	14.657		
2,660.0	2,639.4	2,692.8	2,686.1	8.2	6.1	-146.97	-83.2	-76.7	193.8	180.0	13.83	14.019		
2,700.0	2,678.2	2,734.6	2,726.6	8.3	6.2	-148.56	-74.9	-82.7	192.1	178.0	14.10	13.623		
2,755.0	2,731.6	2,789.1	2,779.3	8.5	6.4	-150.69	-63.8	-90.8	189.7	175.2	14.51	13.074		
2,800.0	2,775.2	2,833.7	2,822.5	8.7	6.6	-152.46	-54.8	-97.4	188.0	173.1	14.87	12.644		
2,850.0	2,823.7	2,883.2	2,870.5	8.9	6.7	-154.47	-44.8	-104.7	186.3	171.0	15.27	12.195		
2,900.0	2,872.3	2,932.7	2,918.4	9.1	6.9	-156.51	-34.8	-112.0	184.8	169.1	15.68	11.782		
2,945.0	2,915.9	2,977.3	2,961.6	9.3	7.1	-158.38	-25.8	-118.6	183.7	167.6	16.06	11.440		
3,000.0	2,969.3	3,031.8	3,014.3	9.5	7.3	-160.68	-14.8	-126.6	182.6	166.1	16.51	11.059		
3,040.0	3,008.1	3,071.4	3,052.7	9.7	7.4	-162.37	-6.8	-132.5	182.0	165.1	16.84	10.807		
3,100.0	3,066.3	3,130.9	3,110.2	9.9	7.7	-164.93	5.3	-141.3	181.4	164.0	17.32	10.468		
3,135.0	3,100.3	3,165.5	3,143.8	10.1	7.8	-166.42	12.3	-146.4	181.2	163.6	17.61	10.291		
3,168.5	3,132.8	3,198.8	3,175.9	10.2	7.9	-167.86	19.0	-151.3	181.1	163.2	17.87	10.135		
3,200.0	3,163.3	3,229.9	3,206.1	10.4	8.1	-169.21	25.3	-155.9	181.2	163.1	18.12	10.001		
3,230.0	3,192.4	3,259.7	3,234.9	10.5	8.2	-170.49	31.3	-160.3	181.3	163.0	18.35	9.883		
3,300.0	3,260.4	3,329.0	3,302.0	10.8	8.5	-173.47	45.3	-170.5	182.0	163.1	18.87	9.647		
3,325.0	3,284.6	3,353.8	3,326.0	10.9	8.6	-174.53	50.3	-174.2	182.4	163.3	19.05	9.575		
3,400.0	3,357.4	3,428.1	3,397.9	11.2	8.9	-177.67	65.4	-185.2	183.9	164.3	19.57	9.396		
3,420.0	3,376.8	3,447.9	3,417.1	11.3	9.0	-178.50	69.4	-188.1	184.3	164.6	19.70	9.357		
3,500.0	3,454.4	3,527.1	3,493.8	11.6	9.3	178.23	85.4	-199.8	186.7	166.5	20.21	9.236		
3,515.0	3,469.0	3,542.0	3,508.2	11.7	9.4	177.63	88.4	-202.0	187.2	166.9	20.30	9.220		
3,600.0	3,551.5	3,626.2	3,589.8	12.1	9.7	174.27	105.4	-214.4	190.5	169.7	20.80	9.158		
3,610.0	3,561.2	3,636.1	3,599.3	12.1	9.8	173.88	107.4	-215.9	190.9	170.0	20.85	9.154		
3,700.0	3,648.5	3,725.2	3,685.7	12.5	10.2	170.48	125.5	-229.1	195.1	173.8	21.33	9.149		
3,705.0	3,653.3	3,730.2	3,690.5	12.6	10.2	170.30	126.5	-229.8	195.4	174.0	21.35	9.150		
3,800.0	3,745.5	3,824.3	3,781.6	13.0	10.6	166.88	145.5	-243.7	200.6	178.8	21.80	9.201		
3,895.0	3,837.7	3,918.4	3,872.7	13.4	11.0	163.65	164.5	-257.6	206.5	184.3	22.21	9.298		
3,900.0	3,842.5	3,923.4	3,877.5	13.4	11.1	163.48	165.5	-258.3	206.9	184.6	22.23	9.305		
3,990.0	3,929.9	4,012.5	3,963.8	13.8	11.5	160.60	183.5	-271.5	213.1	190.5	22.58	9.435		
4,000.0	3,939.6	4,022.4	3,973.4	13.9	11.5	160.29	185.6	-272.9	213.8	191.2	22.62	9.451		
4,085.0	4,022.0	4,106.6	4,054.9	14.3	11.9	157.74	202.6	-285.4	220.2	197.3	22.93	9.604		
4,100.0	4,036.6	4,121.5	4,069.3	14.3	11.9	157.30	205.6	-287.6	221.4	198.4	22.98	9.633		
4,180.0	4,114.2	4,200.7	4,146.0	14.7	12.3	155.06	221.6	-299.3	227.8	204.6	23.25	9.800		
4,200.0	4,133.6	4,220.6	4,165.2	14.8	12.4	154.52	225.6	-302.2	229.5	206.2	23.31	9.844		
4,275.0	4,206.4	4,294.9	4,237.1	15.1	12.7	152.56	240.6	-313.2	235.9	212.4	23.55	10.018		
4,300.0	4,230.7	4,319.6	4,261.1	15.3	12.9	151.93	245.6	-316.8	238.1	214.5	23.63	10.079		
4,370.0	4,298.6	4,389.0	4,328.2	15.6	13.2	150.22	259.7	-327.1	244.4	220.6	23.84	10.254		
4,400.0	4,327.7	4,418.7	4,357.0	15.7	13.3	149.52	265.7	-331.5	247.2	223.3	23.93	10.331		
4,465.0	4,390.7	4,483.1	4,419.3	16.0	13.6	148.05	278.7	-341.0	253.3	229.2	24.12	10.503		
4,500.0	4,424.7	4,517.7	4,452.9	16.2	13.8	147.29	285.7	-346.1	256.7	232.5	24.22	10.598		
4,560.0	4,482.9	4,577.2	4,510.5	16.5	14.1	146.03	297.7	-354.9	262.6	238.2	24.40	10.763		
4,600.0	4,521.7	4,616.8	4,548.8	16.6	14.2	145.21	305.7	-360.7	266.6	242.0	24.51	10.874		
4,634.9	4,555.6	4,651.4	4,582.3	16.8	14.4	144.53	312.7	-365.8	270.1	245.5	24.60	10.978		
4,655.0	4,575.1	4,671.3	4,601.6	16.9	14.5	144.15	316.8	-368.8	272.1	247.4	24.66	11.036		
4,700.0	4,618.9	4,715.9	4,644.7	17.1	14.7	143.28	325.8	-375.4	276.4	251.7	24.77	11.161		
4,750.0	4,667.6	4,765.4	4,692.7	17.3	14.9	142.30	335.8	-382.7	281.0	256.1	24.89	11.291		
4,800.0	4,716.3	4,815.0	4,740.7	17.6	15.2	141.30	345.8	-390.0	285.4	260.4	25.00	11.414		
4,845.0	4,760.3	4,859.6	4,783.8	17.8	15.4	140.38	354.8	-396.6	289.0	264.0	25.09	11.522		
4,900.0	4,814.2	4,914.1	4,836.6	18.0	15.6	139.22	365.9	-404.6	293.3	268.1	25.18	11.648		
4,940.0	4,853.5	4,953.7	4,875.0	18.2	15.8	138.36	373.9	-410.5	296.2	271.0	25.23	11.738		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,912.4	5,013.1	4,932.5	18.5	16.1	137.04	385.9	-419.3	300.3	275.0	25.30	11.869		
5,035.0	4,946.9	5,047.8	4,966.1	18.6	16.3	136.24	392.9	-424.4	302.6	277.3	25.34	11.944		
5,100.0	5,010.9	5,112.2	5,028.4	18.9	16.6	134.72	405.9	-433.9	306.6	281.2	25.38	12.081		
5,130.0	5,040.6	5,141.8	5,057.1	19.0	16.7	134.00	411.9	-438.3	308.3	282.9	25.39	12.145		
5,200.0	5,109.8	5,211.1	5,124.2	19.3	17.1	132.27	425.9	-448.5	312.2	286.8	25.40	12.289		
5,225.0	5,134.5	5,235.8	5,148.1	19.4	17.2	131.64	430.9	-452.1	313.5	288.1	25.40	12.342		
5,300.0	5,208.8	5,309.9	5,219.8	19.8	17.5	129.68	445.9	-463.1	317.2	291.9	25.39	12.496		
5,320.0	5,228.7	5,329.6	5,238.9	19.8	17.6	129.14	449.9	-466.0	318.2	292.8	25.38	12.537		
5,400.0	5,308.1	5,408.5	5,315.3	20.2	18.0	126.93	465.8	-477.7	321.9	296.6	25.34	12.701		
5,415.0	5,323.0	5,423.3	5,329.6	20.2	18.1	126.51	468.8	-479.8	322.6	297.2	25.34	12.732		
5,500.0	5,407.6	5,507.0	5,410.6	20.6	18.5	124.03	485.8	-492.2	326.3	301.1	25.29	12.903		
5,510.0	5,417.5	5,516.8	5,420.2	20.6	18.5	123.73	487.7	-493.7	326.8	301.5	25.29	12.923		
5,600.0	5,507.2	5,605.2	5,505.8	20.9	18.9	120.97	505.6	-506.7	330.7	305.5	25.25	13.096		
5,605.0	5,512.2	5,610.2	5,510.5	21.0	19.0	120.81	506.6	-507.4	331.0	305.7	25.25	13.106		
5,700.0	5,607.0	5,703.3	5,600.7	21.3	19.4	117.75	525.5	-521.2	335.3	310.0	25.25	13.279		
5,795.0	5,701.9	5,797.7	5,692.6	21.6	19.9	114.80	543.1	-534.1	339.7	314.4	25.34	13.406		
5,800.0	5,706.9	5,802.7	5,697.5	21.6	19.9	114.65	544.0	-534.7	340.0	314.6	25.35	13.411		
5,890.0	5,796.8	5,893.1	5,786.0	21.9	20.3	112.17	558.4	-545.3	343.9	318.4	25.51	13.480		
5,900.0	5,806.8	5,903.2	5,795.9	21.9	20.4	111.91	559.9	-546.4	344.3	318.8	25.54	13.484		
5,985.0	5,891.8	5,989.3	5,880.8	22.2	20.8	109.85	571.4	-554.7	347.6	321.9	25.74	13.504		
6,000.0	5,906.8	6,004.5	5,895.9	22.2	20.9	109.51	573.2	-556.1	348.1	322.3	25.78	13.503		
6,035.2	5,942.0	6,040.4	5,931.4	22.2	21.0	40.37	577.2	-559.0	349.3	323.4	25.86	13.508		
6,080.0	5,986.8	6,086.2	5,976.9	22.2	21.2	39.46	581.8	-562.3	350.6	324.7	25.96	13.506		
6,100.0	6,006.8	6,106.7	5,997.3	22.2	21.3	39.10	583.7	-563.7	351.2	325.2	26.01	13.502		
6,175.0	6,081.8	6,183.9	6,074.1	22.3	21.6	37.94	589.6	-568.1	353.1	326.9	26.21	13.471		
6,200.0	6,106.8	6,209.7	6,099.8	22.3	21.7	37.62	591.2	-569.2	353.6	327.4	26.28	13.457		
6,270.0	6,176.8	6,282.1	6,172.1	22.3	22.0	36.94	594.8	-571.8	354.9	328.4	26.46	13.413		
6,300.0	6,206.8	6,313.2	6,203.2	22.3	22.1	36.74	595.9	-572.6	355.2	328.7	26.53	13.391		
6,365.0	6,271.8	6,380.7	6,270.6	22.3	22.3	36.47	597.3	-573.6	355.7	329.1	26.66	13.341		
6,400.0	6,306.8	6,417.0	6,307.0	22.4	22.4	36.43	597.5	-573.8	355.8	329.1	26.72	13.318		
6,460.0	6,366.8	6,477.2	6,367.1	22.4	22.4	36.43	597.5	-573.8	355.8	329.0	26.79	13.280		
6,500.0	6,406.8	6,517.2	6,407.1	22.4	22.4	36.43	597.5	-573.8	355.8	329.0	26.85	13.254		
6,555.0	6,461.8	6,572.2	6,462.1	22.4	22.4	36.43	597.5	-573.8	355.8	328.9	26.92	13.216		
6,600.0	6,506.8	6,617.2	6,507.1	22.4	22.5	36.43	597.5	-573.8	355.8	328.8	26.99	13.184		
6,650.0	6,556.8	6,667.2	6,557.1	22.5	22.5	36.43	597.5	-573.8	355.8	328.8	27.06	13.150		
6,700.0	6,606.8	6,717.2	6,607.1	22.5	22.5	36.43	597.5	-573.8	355.8	328.7	27.13	13.115		
6,745.0	6,651.8	6,762.2	6,652.1	22.5	22.5	36.43	597.5	-573.8	355.8	328.6	27.19	13.084		
6,800.0	6,706.8	6,817.2	6,707.1	22.5	22.5	36.43	597.5	-573.8	355.8	328.5	27.27	13.047		
6,840.0	6,746.8	6,857.2	6,747.1	22.5	22.6	36.43	597.5	-573.8	355.8	328.5	27.33	13.020		
6,900.0	6,806.8	6,917.2	6,807.1	22.6	22.6	36.43	597.5	-573.8	355.8	328.4	27.41	12.979		
6,935.0	6,841.8	6,952.2	6,842.1	22.6	22.6	36.43	597.5	-573.8	355.8	328.3	27.46	12.955		
7,000.0	6,906.8	7,017.2	6,907.1	22.6	22.6	36.43	597.5	-573.8	355.8	328.3	27.56	12.912		
7,030.0	6,936.8	7,047.2	6,937.1	22.6	22.6	36.43	597.5	-573.8	355.8	328.2	27.60	12.893		
7,100.0	7,006.8	7,117.2	7,007.1	22.6	22.7	36.62	595.4	-573.8	355.0	327.4	27.64	12.845		
7,125.0	7,031.8	7,142.2	7,032.1	22.6	22.7	37.23	589.2	-573.9	352.4	324.8	27.58	12.777		
7,200.0	7,106.8	7,217.2	7,107.1	22.7	22.8	41.47	549.9	-574.2	335.3	307.7	27.53	12.176		
7,220.0	7,126.8	7,237.2	7,127.1	22.7	22.9	43.18	535.9	-574.3	328.6	301.0	27.63	11.895		
7,300.0	7,206.8	7,217.2	7,207.1	22.7	23.0	52.10	475.0	-574.8	296.6	267.8	28.79	10.300		
7,315.0	7,221.8	7,232.2	7,222.1	22.7	23.0	54.08	463.5	-574.9	290.0	260.8	29.16	9.942		
7,400.0	7,306.8	7,317.2	7,307.1	22.8	23.1	66.38	402.9	-575.3	252.4	220.3	32.06	7.872		
7,410.0	7,316.8	7,327.2	7,317.1	22.8	23.1	67.89	396.4	-575.4	248.2	215.7	32.46	7.645		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	
7,500.0	7,406.8	7,654.0	7,458.6	22.8	23.1	81.06	344.1	-575.8	218.0	181.8	36.18	6.027
7,505.0	7,411.8	7,657.1	7,460.3	22.8	23.1	81.75	341.6	-575.8	216.9	180.5	36.35	5.966
7,572.9	7,479.7	7,694.8	7,480.1	22.8	23.2	90.45	309.6	-576.1	209.0	171.1	37.94	5.509 SF
7,600.0	7,506.8	7,707.7	7,486.4	22.8	23.2	93.54	298.3	-576.2	210.3	172.3	38.02	5.533
7,695.0	7,601.8	7,745.9	7,503.5	22.9	23.2	102.71	264.1	-576.5	235.5	199.5	36.03	6.537
7,700.0	7,606.8	7,750.0	7,505.2	22.9	23.2	103.69	260.4	-576.5	237.7	201.6	36.04	6.594
7,790.0	7,696.8	7,775.5	7,515.2	22.9	23.2	109.61	236.9	-576.7	286.5	253.6	32.81	8.730
7,800.0	7,706.8	7,778.2	7,516.2	22.9	23.2	110.23	234.4	-576.7	292.9	260.4	32.50	9.012
7,885.0	7,791.8	7,800.0	7,523.8	23.0	23.2	115.02	214.0	-576.8	353.3	322.9	30.37	11.635
7,900.0	7,806.8	7,800.0	7,523.8	23.0	23.2	115.02	214.0	-576.8	364.8	334.9	29.94	12.185
7,980.0	7,886.8	7,818.1	7,529.5	23.0	23.3	118.80	196.8	-577.0	429.3	400.5	28.82	14.893
8,000.0	7,906.8	7,821.7	7,530.5	23.0	23.3	119.51	193.4	-577.0	446.1	417.5	28.61	15.593
8,075.0	7,981.8	7,833.9	7,534.0	23.0	23.3	121.90	181.7	-577.1	510.7	482.7	28.02	18.226
8,100.0	8,006.8	7,837.6	7,535.0	23.0	23.3	122.61	178.2	-577.1	532.7	504.8	27.89	19.102
8,170.0	8,076.8	7,850.0	7,538.2	23.1	23.3	124.91	166.1	-577.2	595.5	567.8	27.69	21.504
8,200.0	8,106.8	7,850.0	7,538.2	23.1	23.3	124.91	166.1	-577.2	622.8	595.2	27.58	22.580
8,265.0	8,171.8	7,850.0	7,538.2	23.1	23.3	124.91	166.1	-577.2	682.7	655.2	27.45	24.872
8,300.0	8,206.8	7,850.0	7,538.2	23.1	23.3	124.91	166.1	-577.2	715.3	687.9	27.42	26.084
8,360.0	8,266.8	7,868.0	7,542.4	23.2	23.3	128.04	148.7	-577.4	771.2	743.6	27.59	27.955
8,400.0	8,306.8	7,871.6	7,543.2	23.2	23.3	128.65	145.1	-577.4	808.9	781.3	27.64	29.266
8,455.0	8,361.8	7,876.3	7,544.1	23.2	23.3	129.42	140.5	-577.4	861.0	833.3	27.65	31.135
8,483.2	8,390.0	7,878.6	7,544.6	23.2	23.3	129.79	138.3	-577.5	887.9	860.2	27.67	32.084
8,500.0	8,406.8	7,880.0	7,544.9	23.2	23.3	-46.63	136.9	-577.5	903.8	876.1	27.71	32.618
8,550.0	8,456.7	7,900.0	7,548.5	23.2	23.3	-35.54	117.2	-577.6	951.1	923.2	27.91	34.072
8,600.0	8,506.0	7,900.0	7,548.5	23.2	23.3	-29.44	117.2	-577.6	996.9	968.9	28.00	35.597
8,645.0	8,549.7	7,900.0	7,548.5	23.2	23.3	-25.32	117.2	-577.6	1,037.1	1,009.0	28.10	36.905
8,650.0	8,554.5	7,900.0	7,548.5	23.2	23.3	-24.93	117.2	-577.6	1,041.5	1,013.3	28.11	37.046
8,700.0	8,601.7	7,900.0	7,548.5	23.3	23.3	-21.52	117.2	-577.6	1,084.7	1,056.5	28.24	38.410
8,740.0	8,638.3	7,900.0	7,548.5	23.3	23.3	-19.37	117.2	-577.6	1,118.3	1,089.9	28.36	39.433
8,750.0	8,647.3	7,900.0	7,548.5	23.3	23.3	-18.90	117.2	-577.6	1,126.5	1,098.1	28.39	39.679
8,800.0	8,690.9	7,926.4	7,552.1	23.3	23.3	-16.38	91.1	-577.8	1,165.7	1,137.1	28.63	40.712
8,835.0	8,720.1	7,950.0	7,554.4	23.3	23.3	-14.93	67.6	-578.0	1,192.6	1,163.7	28.82	41.378
8,850.0	8,732.3	7,950.0	7,554.4	23.3	23.3	-14.53	67.6	-578.0	1,203.5	1,174.6	28.87	41.682
8,900.0	8,771.0	7,950.0	7,554.4	23.3	23.3	-13.34	67.6	-578.0	1,238.6	1,209.5	29.06	42.620
8,930.0	8,792.9	7,950.0	7,554.4	23.4	23.3	-12.73	67.6	-578.0	1,258.6	1,229.5	29.18	43.127
8,950.0	8,806.9	7,950.0	7,554.4	23.4	23.3	-12.36	67.6	-578.0	1,271.6	1,242.4	29.27	43.442
9,000.0	8,839.5	7,972.3	7,555.6	23.4	23.4	-11.41	45.3	-578.2	1,302.0	1,272.4	29.53	44.092
9,025.0	8,854.6	7,978.6	7,555.8	23.4	23.4	-11.03	39.0	-578.2	1,316.2	1,286.6	29.65	44.386

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
5,320.0	5,228.7	5,553.1	5,455.3	19.8	18.7	-18.84	369.2	-2,045.2	1,319.0	1,286.7	32.35	40.777	
5,400.0	5,308.1	5,629.3	5,529.1	20.2	19.0	-18.20	383.8	-2,033.0	1,298.2	1,265.3	32.86	39.502	
5,415.0	5,323.0	5,643.6	5,542.9	20.2	19.1	-18.08	386.6	-2,030.7	1,294.4	1,261.4	32.96	39.274	
5,500.0	5,407.6	5,724.8	5,621.5	20.6	19.5	-17.37	402.2	-2,017.7	1,273.7	1,240.2	33.49	38.033	
5,510.0	5,417.5	5,734.4	5,630.8	20.6	19.5	-17.28	404.1	-2,016.1	1,271.4	1,237.8	33.55	37.895	
5,600.0	5,507.2	5,820.6	5,714.3	20.9	20.0	-16.49	420.7	-2,002.3	1,251.2	1,217.1	34.09	36.698	
5,605.0	5,512.2	5,825.4	5,718.9	21.0	20.0	-16.45	421.6	-2,001.6	1,250.1	1,215.9	34.12	36.635	
5,700.0	5,607.0	5,916.7	5,807.3	21.3	20.4	-15.58	439.1	-1,986.9	1,230.5	1,195.8	34.67	35.492	
5,795.0	5,701.9	6,008.2	5,895.9	21.6	20.9	-14.67	456.7	-1,972.3	1,212.6	1,177.4	35.18	34.465	
5,800.0	5,706.9	6,013.0	5,900.5	21.6	20.9	-14.62	457.7	-1,971.5	1,211.7	1,176.5	35.21	34.414	
5,890.0	5,796.8	6,099.9	5,984.6	21.9	21.3	-13.73	474.4	-1,957.6	1,196.6	1,160.9	35.66	33.554	
5,900.0	5,806.8	6,109.5	5,994.0	21.9	21.4	-13.63	476.2	-1,956.0	1,195.0	1,159.3	35.71	33.463	
5,985.0	5,891.8	6,191.7	6,073.5	22.2	21.8	-12.76	492.1	-1,942.9	1,182.3	1,146.2	36.08	32.772	
6,000.0	5,906.8	6,200.0	6,081.6	22.2	21.8	-12.67	493.7	-1,941.5	1,180.3	1,144.1	36.15	32.652	
6,035.2	5,942.0	6,232.1	6,112.7	22.2	22.0	-80.71	499.6	-1,936.5	1,175.7	1,139.4	36.25	32.434	
6,080.0	5,986.8	6,268.1	6,147.7	22.2	22.1	-80.35	506.0	-1,931.2	1,170.4	1,134.0	36.35	32.196	
6,100.0	6,006.8	6,284.3	6,163.5	22.2	22.2	-80.20	508.8	-1,928.9	1,168.1	1,131.7	36.40	32.094	
6,175.0	6,081.8	6,345.1	6,223.0	22.3	22.5	-79.65	518.6	-1,920.8	1,160.2	1,123.6	36.57	31.728	
6,200.0	6,106.8	6,365.5	6,243.0	22.3	22.6	-79.48	521.7	-1,918.2	1,157.7	1,121.1	36.62	31.614	
6,270.0	6,176.8	6,423.0	6,299.5	22.3	22.9	-79.02	529.7	-1,911.5	1,151.5	1,114.7	36.77	31.315	
6,300.0	6,206.8	6,447.7	6,323.9	22.3	23.0	-78.84	532.9	-1,908.8	1,149.0	1,112.2	36.83	31.196	
6,365.0	6,271.8	6,500.0	6,375.5	22.3	23.2	-78.48	539.1	-1,903.7	1,144.2	1,107.2	36.96	30.954	
6,400.0	6,306.8	6,530.7	6,405.9	22.4	23.4	-78.29	542.4	-1,900.9	1,141.9	1,104.8	37.03	30.835	
6,460.0	6,366.8	6,580.8	6,455.7	22.4	23.6	-78.01	547.3	-1,896.9	1,138.3	1,101.1	37.15	30.643	
6,500.0	6,406.8	6,614.4	6,489.0	22.4	23.7	-77.84	550.2	-1,894.5	1,136.2	1,099.0	37.22	30.525	
6,555.0	6,461.8	6,660.6	6,535.0	22.4	23.9	-77.64	553.7	-1,891.6	1,133.7	1,096.4	37.32	30.377	
6,600.0	6,506.8	6,700.0	6,574.2	22.4	24.1	-77.49	556.2	-1,889.5	1,132.0	1,094.6	37.40	30.262	
6,650.0	6,556.8	6,740.8	6,614.9	22.5	24.2	-77.36	558.4	-1,887.6	1,130.4	1,092.9	37.49	30.151	
6,700.0	6,606.8	6,783.1	6,657.2	22.5	24.4	-77.26	560.1	-1,886.2	1,129.1	1,091.5	37.58	30.048	
6,745.0	6,651.8	6,821.2	6,695.3	22.5	24.5	-77.19	561.3	-1,885.2	1,128.3	1,090.6	37.65	29.966	
6,800.0	6,706.8	6,867.9	6,741.9	22.5	24.7	-77.13	562.3	-1,884.4	1,127.6	1,089.9	37.74	29.880	
6,840.0	6,746.8	6,901.8	6,775.9	22.5	24.8	-77.12	562.6	-1,884.1	1,127.4	1,089.6	37.80	29.824	
6,870.1	6,777.0	6,928.9	6,803.0	22.5	24.8	-77.11	562.6	-1,884.1	1,127.4	1,089.6	37.83	29.803	
6,900.0	6,806.8	6,958.8	6,832.8	22.6	24.8	-77.11	562.6	-1,884.1	1,127.4	1,089.5	37.85	29.783	
6,935.0	6,841.8	6,993.8	6,867.8	22.6	24.8	-77.11	562.6	-1,884.1	1,127.4	1,089.5	37.88	29.760	
7,000.0	6,906.8	7,058.8	6,932.8	22.6	24.8	-77.11	562.6	-1,884.1	1,127.4	1,089.4	37.95	29.711	
7,030.0	6,936.8	7,088.8	6,962.8	22.6	24.8	-77.11	562.6	-1,884.1	1,127.4	1,089.4	37.97	29.688	
7,100.0	7,006.8	7,196.6	7,070.2	22.6	24.9	-77.47	555.5	-1,884.2	1,126.5	1,088.4	38.07	29.593	
7,125.0	7,031.8	7,238.2	7,111.0	22.6	24.9	-77.87	547.4	-1,884.2	1,125.5	1,087.4	38.13	29.520	
7,200.0	7,106.8	7,353.7	7,220.1	22.7	25.0	-79.76	509.9	-1,884.6	1,120.7	1,082.3	38.39	29.190	
7,220.0	7,126.8	7,381.6	7,245.1	22.7	25.0	-80.38	497.6	-1,884.7	1,119.1	1,080.6	38.48	29.081	
7,300.0	7,206.8	7,479.6	7,327.7	22.7	25.1	-83.06	445.1	-1,885.1	1,112.2	1,073.3	38.89	28.602	
7,315.0	7,221.8	7,495.7	7,340.3	22.7	25.1	-83.57	435.2	-1,885.2	1,110.9	1,072.0	38.97	28.511	
7,400.0	7,306.8	7,574.2	7,397.8	22.8	25.2	-86.33	381.8	-1,885.7	1,104.7	1,065.3	39.40	28.041	
7,410.0	7,316.8	7,582.2	7,403.2	22.8	25.2	-86.64	375.9	-1,885.7	1,104.2	1,064.7	39.44	27.994	
7,500.0	7,406.8	7,644.3	7,442.5	22.8	25.2	-89.13	327.9	-1,886.1	1,101.2	1,061.4	39.80	27.671	
7,505.0	7,411.8	7,647.2	7,444.3	22.8	25.2	-89.26	325.4	-1,886.2	1,101.2	1,061.4	39.81	27.660	
7,514.9	7,421.7	7,653.1	7,447.7	22.8	25.2	-89.50	320.7	-1,886.2	1,101.1	1,061.3	39.84	27.638 CC, ES	
7,600.0	7,506.8	7,696.8	7,471.6	22.8	25.3	-91.41	284.1	-1,886.5	1,103.4	1,063.4	40.01	27.576 SF	
7,695.0	7,601.8	7,735.3	7,490.2	22.9	25.3	-93.16	250.4	-1,886.8	1,111.9	1,071.9	40.03	27.774	
7,700.0	7,606.8	7,737.1	7,491.0	22.9	25.3	-93.24	248.8	-1,886.8	1,112.6	1,072.5	40.03	27.793	

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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Rule Assigned:													
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Semi Major Axis Reference	Semi Major Axis Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)			
7,790.0	7,696.8	7,765.8	7,503.4	22.9	25.3	-94.58	222.9	-1,887.0	1,127.0	1,087.2	39.88	28.261		
7,800.0	7,706.8	7,768.6	7,504.5	22.9	25.3	-94.71	220.3	-1,887.1	1,129.0	1,089.2	39.85	28.329		
7,885.0	7,791.8	7,790.4	7,512.9	23.0	25.3	-95.75	200.3	-1,887.2	1,148.9	1,109.3	39.57	29.034		
7,900.0	7,806.8	7,800.0	7,516.4	23.0	25.3	-96.21	191.3	-1,887.3	1,153.0	1,113.4	39.55	29.150		
7,980.0	7,886.8	7,810.6	7,520.0	23.0	25.3	-96.72	181.3	-1,887.4	1,177.4	1,138.2	39.14	30.078		
8,000.0	7,906.8	7,814.4	7,521.3	23.0	25.3	-96.90	177.7	-1,887.4	1,184.2	1,145.2	39.04	30.331		
8,075.0	7,981.8	7,827.5	7,525.4	23.0	25.3	-97.54	165.4	-1,887.5	1,212.2	1,173.5	38.63	31.377		
8,100.0	8,006.8	7,831.4	7,526.6	23.0	25.3	-97.73	161.6	-1,887.6	1,222.3	1,183.8	38.49	31.758		
8,170.0	8,076.8	7,850.0	7,531.9	23.1	25.4	-98.63	143.8	-1,887.7	1,252.9	1,214.8	38.13	32.862		
8,200.0	8,106.8	7,850.0	7,531.9	23.1	25.4	-98.63	143.8	-1,887.7	1,266.9	1,228.9	37.92	33.411		
8,265.0	8,171.8	7,850.0	7,531.9	23.1	25.4	-98.63	143.8	-1,887.7	1,298.9	1,261.5	37.47	34.668		
8,300.0	8,206.8	7,850.0	7,531.9	23.1	25.4	-98.63	143.8	-1,887.7	1,317.2	1,280.0	37.23	35.380		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	179.08	179.08	-149.9	2.4	149.9				
95.0	95.0	94.9	94.9	3.0	3.0	179.08	179.08	-149.9	2.4	149.9	143.9	6.02	24.912	
100.0	100.0	99.9	99.9	3.0	3.0	179.08	179.08	-149.9	2.4	149.9	143.9	6.02	24.899	
190.0	190.0	189.9	189.9	3.1	3.0	179.08	179.08	-149.9	2.4	149.9	143.8	6.13	24.442	
200.0	200.0	199.9	199.9	3.1	3.0	179.08	179.08	-149.9	2.4	149.9	143.8	6.15	24.369	
285.0	285.0	284.9	284.9	3.3	3.0	179.08	179.08	-149.9	2.4	149.9	143.7	6.26	23.931	
300.0	300.0	299.9	299.9	3.3	3.0	179.08	179.08	-149.9	2.4	149.9	143.6	6.29	23.844	
380.0	380.0	379.9	379.9	3.4	3.0	179.08	179.08	-149.9	2.4	149.9	143.5	6.40	23.432	
400.0	400.0	399.9	399.9	3.4	3.0	179.08	179.08	-149.9	2.4	149.9	143.5	6.43	23.323	
475.0	475.0	474.9	474.9	3.5	3.0	179.08	179.08	-149.9	2.4	149.9	143.4	6.54	22.940	
500.0	500.0	499.9	499.9	3.5	3.1	179.08	179.08	-149.9	2.4	149.9	143.3	6.57	22.807	
570.0	570.0	569.9	569.9	3.6	3.1	179.08	179.08	-149.9	2.4	149.9	143.2	6.68	22.454	
600.0	600.0	599.9	599.9	3.6	3.1	179.08	179.08	-149.9	2.4	149.9	143.2	6.72	22.299	
665.0	665.0	664.9	664.9	3.7	3.1	179.08	179.08	-149.9	2.4	149.9	143.1	6.82	21.975	
700.0	700.0	699.9	699.9	3.8	3.1	179.08	179.08	-149.9	2.4	149.9	143.0	6.88	21.797	
760.0	760.0	759.9	759.9	3.8	3.1	179.08	179.08	-149.9	2.4	149.9	142.9	6.97	21.503	
800.0	800.0	799.9	799.9	3.9	3.2	179.08	179.08	-149.9	2.4	149.9	142.9	7.04	21.304	
855.0	855.0	854.9	854.9	4.0	3.2	179.08	179.08	-149.9	2.4	149.9	142.8	7.13	21.038	
900.0	900.0	899.9	899.9	4.0	3.2	179.08	179.08	-149.9	2.4	149.9	142.7	7.20	20.820	
950.0	950.0	949.9	949.9	4.1	3.2	179.08	179.08	-149.9	2.4	149.9	142.6	7.28	20.583	
1,000.0	1,000.0	999.9	999.9	4.1	3.2	179.08	179.08	-149.9	2.4	149.9	142.6	7.37	20.345	
1,045.0	1,045.0	1,044.9	1,044.9	4.2	3.3	179.08	179.08	-149.9	2.4	149.9	142.5	7.45	20.136	
1,100.0	1,100.0	1,099.9	1,099.9	4.2	3.3	179.08	179.08	-149.9	2.4	149.9	142.4	7.54	19.881	
1,140.0	1,140.0	1,139.9	1,139.9	4.3	3.3	179.08	179.08	-149.9	2.4	149.9	142.3	7.61	19.699	
1,200.0	1,200.0	1,199.9	1,199.9	4.4	3.4	179.08	179.08	-149.9	2.4	149.9	142.2	7.72	19.427	
1,235.0	1,235.0	1,234.9	1,234.9	4.4	3.4	179.08	179.08	-149.9	2.4	149.9	142.1	7.78	19.272	
1,300.0	1,300.0	1,299.9	1,299.9	4.5	3.4	179.08	179.08	-149.9	2.4	149.9	142.0	7.90	18.985	
1,330.0	1,330.0	1,329.9	1,329.9	4.5	3.4	179.08	179.08	-149.9	2.4	149.9	142.0	7.95	18.855	
1,400.0	1,400.0	1,399.9	1,399.9	4.6	3.5	179.08	179.08	-149.9	2.4	149.9	141.8	8.08	18.554	
1,425.0	1,425.0	1,424.9	1,424.9	4.6	3.5	179.08	179.08	-149.9	2.4	149.9	141.8	8.13	18.449	
1,500.0	1,500.0	1,499.9	1,499.9	4.7	3.5	179.08	179.08	-149.9	2.4	149.9	141.7	8.27	18.135 CC	
1,520.0	1,520.0	1,519.9	1,519.9	4.7	3.6	-112.56	-149.9	-149.9	2.4	149.9	141.6	8.30	18.059 ES	
1,600.0	1,600.0	1,599.9	1,599.9	4.8	3.6	-113.14	-149.9	-149.9	2.4	150.6	142.1	8.45	17.819	
1,615.0	1,615.0	1,614.9	1,614.9	4.9	3.6	-113.33	-149.9	-149.9	2.4	150.8	142.3	8.49	17.769	
1,700.0	1,699.8	1,699.7	1,699.7	5.0	3.7	-114.91	-149.9	-149.9	2.4	152.7	144.0	8.70	17.558	
1,710.0	1,709.8	1,709.7	1,709.7	5.1	3.7	-115.14	-149.9	-149.9	2.4	153.0	144.3	8.72	17.542	
1,800.0	1,799.5	1,799.4	1,799.4	5.3	3.8	-117.72	-149.9	-149.9	2.4	156.6	147.6	8.96	17.483	
1,805.0	1,804.4	1,804.3	1,804.3	5.3	3.8	-117.89	-149.9	-149.9	2.4	156.9	147.9	8.97	17.484	
1,900.0	1,898.7	1,898.6	1,898.6	5.6	3.9	-121.40	-149.9	-149.9	2.4	162.7	153.4	9.24	17.612	
1,995.0	1,992.5	1,992.4	1,992.4	5.9	3.9	-125.46	-149.9	-149.9	2.4	170.9	161.4	9.52	17.943	
2,000.0	1,997.5	1,997.4	1,997.4	5.9	3.9	-125.69	-149.9	-149.9	2.4	171.4	161.8	9.54	17.966	
2,090.0	2,085.8	2,091.2	2,091.2	6.2	4.2	-130.26	-148.4	-148.4	2.4	180.6	170.7	9.98	18.094	
2,100.0	2,095.6	2,101.6	2,101.6	6.2	4.2	-130.80	-148.1	-148.1	2.4	181.7	171.6	10.04	18.104	
2,185.0	2,178.5	2,190.0	2,189.9	6.6	4.5	-135.62	-143.6	-143.6	2.4	190.8	180.2	10.54	18.099	
2,200.1	2,193.2	2,205.7	2,205.6	6.6	4.5	-136.52	-142.5	-142.5	2.4	192.5	181.8	10.63	18.101	
2,280.0	2,270.7	2,288.6	2,288.1	6.9	4.8	-141.35	-135.4	-135.4	2.5	201.1	190.0	11.10	18.124	
2,300.0	2,290.1	2,309.3	2,308.7	6.9	4.8	-142.54	-133.2	-133.2	2.5	203.2	192.0	11.21	18.118	
2,375.0	2,362.9	2,387.1	2,385.9	7.2	5.1	-147.00	-123.8	-123.8	2.5	210.6	198.9	11.66	18.056	
2,400.0	2,387.1	2,412.9	2,411.5	7.2	5.2	-148.49	-120.2	-120.2	2.5	212.9	201.1	11.81	18.028	
2,470.0	2,455.0	2,485.2	2,482.9	7.5	5.5	-152.67	-108.9	-108.9	2.6	219.3	207.0	12.23	17.928	
2,500.0	2,484.1	2,516.1	2,513.3	7.6	5.6	-154.47	-103.5	-103.5	2.6	221.9	209.5	12.40	17.901	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
2,565.0	2,547.2	2,582.5	2,578.5	7.8	5.7	-158.38	-90.9	2.7	227.6	214.9	12.73	17.884		
2,600.0	2,581.2	2,616.3	2,611.7	8.0	5.8	-160.36	-84.1	2.7	230.9	218.0	12.90	17.903		
2,660.0	2,639.4	2,674.5	2,668.6	8.2	6.0	-163.63	-72.6	2.8	237.1	223.9	13.22	17.936		
2,700.0	2,678.2	2,713.2	2,706.6	8.3	6.1	-165.71	-64.8	2.8	241.7	228.3	13.43	17.992		
2,755.0	2,731.6	2,766.4	2,758.7	8.5	6.3	-168.45	-54.2	2.9	248.5	234.8	13.73	18.106		
2,800.0	2,775.2	2,810.0	2,801.4	8.7	6.4	-170.58	-45.5	2.9	254.5	240.5	13.96	18.230		
2,850.0	2,823.7	2,858.4	2,848.9	8.9	6.6	-172.84	-35.9	3.0	261.6	247.3	14.22	18.393		
2,900.0	2,872.3	2,906.9	2,896.3	9.1	6.8	-174.98	-26.2	3.0	269.0	254.5	14.48	18.582		
2,945.0	2,915.9	2,950.4	2,939.0	9.3	6.9	-176.81	-17.5	3.0	276.0	261.3	14.71	18.769		
3,000.0	2,969.3	3,003.7	2,991.2	9.5	7.1	-178.93	-6.9	3.1	285.0	270.0	14.99	19.017		
3,040.0	3,008.1	3,042.4	3,029.2	9.7	7.3	179.62	0.8	3.1	291.7	276.5	15.19	19.209		
3,100.0	3,066.3	3,100.5	3,086.1	9.9	7.5	177.55	12.4	3.2	302.2	286.7	15.49	19.511		
3,135.0	3,100.3	3,134.4	3,119.3	10.1	7.6	176.41	19.2	3.2	308.4	292.8	15.66	19.693		
3,200.0	3,163.3	3,197.4	3,181.0	10.4	7.9	174.40	31.7	3.3	320.4	304.4	15.99	20.042		
3,230.0	3,192.4	3,226.4	3,209.5	10.5	8.0	173.52	37.5	3.3	326.0	309.9	16.14	20.206		
3,300.0	3,260.4	3,294.2	3,275.9	10.8	8.2	171.59	51.0	3.4	339.5	323.0	16.48	20.595		
3,325.0	3,284.6	3,318.4	3,299.6	10.9	8.3	170.94	55.9	3.4	344.3	327.7	16.61	20.735		
3,400.0	3,357.4	3,391.0	3,370.8	11.2	8.6	169.08	70.4	3.5	359.3	342.3	16.98	21.158		
3,420.0	3,376.8	3,410.4	3,389.8	11.3	8.7	168.61	74.2	3.5	363.3	346.2	17.08	21.270		
3,500.0	3,454.4	3,487.9	3,465.7	11.6	9.0	166.82	89.7	3.6	379.7	362.2	17.48	21.721		
3,515.0	3,469.0	3,502.4	3,479.9	11.7	9.1	166.51	92.6	3.6	382.8	365.2	17.55	21.805		
3,600.0	3,551.5	3,584.7	3,560.6	12.1	9.4	164.80	109.0	3.7	400.6	382.6	17.98	22.278		
3,610.0	3,561.2	3,594.4	3,570.1	12.1	9.5	164.61	110.9	3.7	402.7	384.7	18.03	22.332		
3,700.0	3,648.5	3,681.5	3,655.5	12.5	9.8	162.97	128.3	3.7	421.9	403.4	18.49	22.823		
3,705.0	3,653.3	3,686.4	3,660.2	12.6	9.8	162.89	129.3	3.8	423.0	404.5	18.51	22.850		
3,800.0	3,745.5	3,778.4	3,750.3	13.0	10.2	161.32	147.6	3.8	443.7	424.7	19.00	23.354		
3,895.0	3,837.7	3,870.4	3,840.5	13.4	10.6	159.89	166.0	3.9	464.6	445.1	19.49	23.844		
3,900.0	3,842.5	3,875.2	3,845.2	13.4	10.6	159.82	166.9	3.9	465.7	446.2	19.51	23.869		
3,990.0	3,929.9	3,962.4	3,930.6	13.8	11.0	158.59	184.3	4.0	485.8	465.8	19.98	24.317		
4,000.0	3,939.6	3,972.0	3,940.1	13.9	11.1	158.46	186.2	4.0	488.1	468.0	20.03	24.366		
4,085.0	4,022.0	4,054.4	4,020.8	14.3	11.4	157.39	202.7	4.1	507.2	486.8	20.48	24.773		
4,100.0	4,036.6	4,068.9	4,035.0	14.3	11.5	157.21	205.6	4.1	510.6	490.1	20.55	24.843		
4,180.0	4,114.2	4,146.4	4,110.9	14.7	11.8	156.29	221.0	4.2	528.9	507.9	20.98	25.212		
4,200.0	4,133.6	4,165.7	4,129.9	14.8	11.9	156.07	224.9	4.2	533.4	512.4	21.08	25.302		
4,275.0	4,206.4	4,238.3	4,201.1	15.1	12.2	155.28	239.4	4.3	550.7	529.2	21.48	25.634		
4,300.0	4,230.7	4,262.6	4,224.8	15.3	12.3	155.03	244.2	4.3	556.4	534.8	21.61	25.742		
4,370.0	4,298.6	4,330.3	4,291.2	15.6	12.6	154.34	257.7	4.4	572.6	550.6	21.99	26.039		
4,400.0	4,327.7	4,359.4	4,319.7	15.7	12.7	154.06	263.5	4.4	579.6	557.4	22.15	26.164		
4,465.0	4,390.7	4,422.3	4,381.4	16.0	13.0	153.47	276.0	4.5	594.7	572.2	22.50	26.428		
4,500.0	4,424.7	4,456.2	4,414.6	16.2	13.2	153.17	282.8	4.5	602.8	580.1	22.69	26.567		
4,560.0	4,482.9	4,514.3	4,471.5	16.5	13.4	152.67	294.4	4.6	616.9	593.9	23.02	26.800		
4,600.0	4,521.7	4,553.1	4,509.5	16.6	13.6	152.34	302.1	4.6	626.3	603.0	23.24	26.952		
4,634.9	4,555.6	4,586.9	4,542.6	16.8	13.8	152.07	308.9	4.6	634.5	611.0	23.42	27.096		
4,655.0	4,575.1	4,606.3	4,561.7	16.9	13.8	151.94	312.7	4.6	639.2	615.6	23.52	27.173		
4,700.0	4,618.9	4,650.0	4,604.4	17.1	14.0	151.64	321.4	4.7	649.5	625.7	23.76	27.337		
4,750.0	4,667.6	4,698.5	4,652.0	17.3	14.2	151.29	331.1	4.7	660.6	636.6	24.03	27.494		
4,800.0	4,716.3	4,747.1	4,699.6	17.6	14.5	150.95	340.8	4.8	671.4	647.1	24.30	27.633		
4,845.0	4,760.3	4,790.9	4,742.5	17.8	14.7	150.63	349.6	4.8	680.8	656.3	24.54	27.748		
4,900.0	4,814.2	4,844.5	4,795.0	18.0	14.9	150.23	360.2	4.9	692.0	667.1	24.83	27.870		
4,940.0	4,853.5	4,883.5	4,833.3	18.2	15.1	149.94	368.0	4.9	699.8	674.8	25.04	27.950		
5,000.0	4,912.4	4,942.1	4,890.7	18.5	15.3	149.49	379.7	5.0	711.2	685.8	25.35	28.053		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,035.0	4,946.9	4,976.3	4,924.2	18.6	15.5	149.22	386.5	5.0	717.6	692.1	25.53	28.106		
5,100.0	5,010.9	5,039.9	4,986.5	18.9	15.8	148.71	399.2	5.1	729.1	703.2	25.87	28.187		
5,130.0	5,040.6	5,069.3	5,015.3	19.0	15.9	148.47	405.1	5.1	734.2	708.2	26.02	28.219		
5,200.0	5,109.8	5,137.8	5,082.5	19.3	16.2	147.90	418.7	5.2	745.7	719.3	26.37	28.276		
5,225.0	5,134.5	5,162.3	5,106.5	19.4	16.3	147.69	423.6	5.2	749.6	723.1	26.50	28.293		
5,300.0	5,208.8	5,235.9	5,178.6	19.8	16.7	147.05	438.3	5.3	761.0	734.1	26.87	28.324		
5,320.0	5,228.7	5,255.5	5,197.8	19.8	16.8	146.88	442.2	5.3	763.9	737.0	26.96	28.331		
5,400.0	5,308.1	5,334.0	5,274.8	20.2	17.1	146.17	457.9	5.3	775.1	747.7	27.35	28.336		
5,415.0	5,323.0	5,348.8	5,289.2	20.2	17.2	146.03	460.8	5.4	777.1	749.7	27.42	28.336		
5,500.0	5,407.6	5,432.3	5,371.0	20.6	17.6	145.24	477.5	5.4	788.0	760.1	27.83	28.316		
5,510.0	5,417.5	5,442.1	5,380.6	20.6	17.6	145.14	479.4	5.5	789.2	761.3	27.87	28.313		
5,600.0	5,507.2	5,530.5	5,467.3	20.9	18.0	144.27	497.1	5.5	799.7	771.4	28.29	28.266		
5,605.0	5,512.2	5,535.4	5,472.1	21.0	18.0	144.22	498.0	5.5	800.2	771.9	28.31	28.263		
5,700.0	5,607.0	5,628.8	5,563.6	21.3	18.5	143.25	516.7	5.6	810.3	781.5	28.74	28.192		
5,795.0	5,701.9	5,722.1	5,655.0	21.6	18.9	142.23	535.3	5.7	819.3	790.1	29.15	28.103		
5,800.0	5,706.9	5,727.0	5,659.8	21.6	18.9	142.18	536.3	5.7	819.7	790.6	29.18	28.097		
5,890.0	5,796.8	5,815.4	5,746.4	21.9	19.3	141.18	553.9	5.8	827.4	797.9	29.54	28.009		
5,900.0	5,806.8	5,825.4	5,756.3	21.9	19.4	141.06	555.9	5.8	828.2	798.6	29.58	27.999		
5,985.0	5,891.8	5,917.5	5,846.8	22.2	19.8	140.06	572.7	5.9	834.2	804.2	29.93	27.867		
6,000.0	5,906.8	5,933.8	5,862.9	22.2	19.8	139.89	575.4	5.9	835.0	805.0	30.00	27.836		
6,035.2	5,942.0	5,972.3	5,900.9	22.2	20.0	71.15	581.3	5.9	836.9	806.8	30.11	27.794		
6,080.0	5,986.8	6,021.5	5,949.6	22.2	20.2	70.70	588.2	6.0	839.0	808.8	30.23	27.752		
6,100.0	6,006.8	6,043.5	5,971.4	22.2	20.3	70.52	591.0	6.0	839.9	809.6	30.28	27.732		
6,175.0	6,081.8	6,126.4	6,053.9	22.3	20.7	69.94	600.0	6.0	842.7	812.2	30.50	27.633		
6,200.0	6,106.8	6,154.2	6,081.5	22.3	20.8	69.78	602.5	6.0	843.5	812.9	30.56	27.597		
6,270.0	6,176.8	6,232.1	6,159.3	22.3	21.1	69.43	608.1	6.1	845.2	814.5	30.75	27.488		
6,300.0	6,206.8	6,265.6	6,192.7	22.3	21.2	69.32	609.8	6.1	845.8	815.0	30.82	27.439		
6,365.0	6,271.8	6,338.3	6,265.4	22.3	21.4	69.17	612.3	6.1	846.6	815.6	30.97	27.336		
6,400.0	6,306.8	6,377.5	6,304.5	22.4	21.5	69.13	612.8	6.1	846.7	815.7	31.04	27.282		
6,460.0	6,366.8	6,439.7	6,366.7	22.4	21.6	69.13	612.9	6.1	846.8	815.6	31.12	27.209		
6,500.0	6,406.8	6,479.7	6,406.7	22.4	21.6	69.13	612.9	6.1	846.8	815.6	31.17	27.166		
6,555.0	6,461.8	6,534.7	6,461.7	22.4	21.6	69.13	612.9	6.1	846.8	815.5	31.24	27.107		
6,600.0	6,506.8	6,579.7	6,506.7	22.4	21.6	69.13	612.9	6.1	846.8	815.5	31.29	27.060		
6,650.0	6,556.8	6,629.7	6,556.7	22.5	21.7	69.13	612.9	6.1	846.8	815.4	31.35	27.006		
6,700.0	6,606.8	6,679.7	6,606.7	22.5	21.7	69.13	612.9	6.1	846.8	815.4	31.42	26.954		
6,745.0	6,651.8	6,724.7	6,651.7	22.5	21.7	69.13	612.9	6.1	846.8	815.3	31.47	26.906		
6,800.0	6,706.8	6,779.7	6,706.7	22.5	21.7	69.13	612.9	6.1	846.8	815.2	31.54	26.848		
6,840.0	6,746.8	6,819.7	6,746.7	22.5	21.8	69.13	612.9	6.1	846.8	815.2	31.59	26.806		
6,900.0	6,806.8	6,879.7	6,806.7	22.6	21.8	69.13	612.9	6.1	846.8	815.1	31.66	26.743		
6,935.0	6,841.8	6,914.7	6,841.7	22.6	21.8	69.13	612.9	6.1	846.8	815.1	31.71	26.707		
7,000.0	6,906.8	6,979.7	6,906.7	22.6	21.8	69.13	612.9	6.1	846.8	815.0	31.79	26.639		
7,030.0	6,936.8	7,009.7	6,936.7	22.6	21.8	69.13	612.9	6.1	846.8	814.9	31.82	26.608		
7,100.0	7,006.8	7,079.7	7,006.7	22.6	21.9	69.13	612.9	6.1	846.8	814.9	31.91	26.536		
7,125.0	7,031.8	7,104.7	7,031.7	22.6	21.9	69.13	612.9	6.1	846.8	814.8	31.94	26.510		
7,200.0	7,106.8	7,179.7	7,106.7	22.7	21.9	69.13	612.9	6.1	846.8	814.7	32.04	26.432		
7,220.0	7,126.8	7,199.7	7,126.7	22.7	21.9	69.13	612.9	6.1	846.8	814.7	32.06	26.412		
7,300.0	7,206.8	7,279.7	7,206.7	22.7	22.0	69.13	612.9	6.1	846.8	814.6	32.16	26.330		
7,315.0	7,221.8	7,294.7	7,221.7	22.7	22.0	69.13	612.9	6.1	846.8	814.6	32.18	26.315		
7,400.0	7,306.8	7,379.7	7,306.7	22.8	22.0	69.13	612.9	6.1	846.8	814.5	32.29	26.228		
7,410.0	7,316.8	7,389.7	7,316.7	22.8	22.0	69.13	612.9	6.1	846.8	814.5	32.30	26.218		
7,500.0	7,406.8	7,503.6	7,430.6	22.8	22.1	69.24	611.2	6.1	846.5	814.1	32.41	26.122		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,505.0	7,411.8	7,514.3	7,441.3	22.8	22.1	69.30	610.2	6.1	846.3	813.9	32.41	26.110	
7,600.0	7,506.8	7,703.8	7,623.5	22.8	22.3	72.44	561.4	5.7	837.6	805.1	32.48	25.785	
7,695.0	7,601.8	7,850.4	7,747.7	22.9	22.5	77.64	484.3	5.1	822.0	789.4	32.58	25.228	
7,700.0	7,606.8	7,856.9	7,752.7	22.9	22.5	77.92	480.2	5.0	821.1	788.5	32.59	25.193	
7,790.0	7,696.8	7,954.4	7,822.0	22.9	22.6	82.74	411.8	4.5	805.8	773.0	32.79	24.577	
7,800.0	7,706.8	7,963.3	7,827.7	22.9	22.6	83.23	404.9	4.4	804.2	771.4	32.81	24.514	
7,885.0	7,791.8	8,027.5	7,865.7	23.0	22.7	86.95	353.3	4.0	793.7	760.8	32.96	24.078	
7,900.0	7,806.8	8,036.9	7,870.8	23.0	22.7	87.52	345.3	4.0	792.4	759.4	32.98	24.025	
7,980.0	7,886.8	8,080.1	7,892.4	23.0	22.7	90.23	308.0	3.7	788.8	755.8	33.02	23.887	
7,987.3	7,894.1	8,083.5	7,894.0	23.0	22.7	90.46	304.9	3.7	788.8	755.8	33.02	23.887	
8,000.0	7,906.8	8,089.3	7,896.7	23.0	22.7	90.83	299.8	3.6	788.9	755.8	33.02	23.894	
8,075.0	7,981.8	8,119.2	7,909.5	23.0	22.7	92.79	272.8	3.4	792.7	759.8	32.93	24.073	
8,100.0	8,006.8	8,127.8	7,913.0	23.0	22.7	93.36	264.9	3.3	795.3	762.4	32.88	24.187	
8,170.0	8,076.8	8,150.0	7,921.3	23.1	22.8	94.85	244.4	3.2	806.2	773.5	32.71	24.646	
8,200.0	8,106.8	8,157.1	7,923.8	23.1	22.8	95.33	237.7	3.1	812.5	779.9	32.61	24.914	
8,265.0	8,171.8	8,172.6	7,929.0	23.1	22.8	96.38	223.1	3.0	829.3	797.0	32.39	25.607	
8,300.0	8,206.8	8,180.1	7,931.3	23.1	22.8	96.89	216.0	2.9	840.2	807.9	32.26	26.048	
8,360.0	8,266.8	8,200.0	7,937.1	23.2	22.8	98.25	196.9	2.8	861.7	829.6	32.09	26.848	
8,400.0	8,306.8	8,200.0	7,937.1	23.2	22.8	98.25	196.9	2.8	877.8	845.9	31.88	27.534	
8,455.0	8,361.8	8,200.0	7,937.1	23.2	22.8	98.25	196.9	2.8	902.3	870.8	31.48	28.664	
8,483.2	8,390.0	8,200.0	7,937.1	23.2	22.8	98.25	196.9	2.8	915.9	884.7	31.27	29.289	
8,500.0	8,406.8	8,213.6	7,940.6	23.2	22.8	-80.34	183.8	2.7	924.1	892.8	31.29	29.535	
8,550.0	8,456.7	8,221.9	7,942.7	23.2	22.8	-76.87	175.7	2.6	949.7	918.6	31.09	30.545	
8,600.0	8,506.0	8,231.6	7,944.9	23.2	22.8	-73.25	166.3	2.6	976.2	945.3	30.91	31.581	
8,645.0	8,549.7	8,250.0	7,948.7	23.2	22.8	-69.44	148.3	2.4	1,000.6	969.8	30.82	32.466	
8,650.0	8,554.5	8,250.0	7,948.7	23.2	22.8	-69.14	148.3	2.4	1,003.3	972.5	30.80	32.578	
8,700.0	8,601.7	8,250.0	7,948.7	23.3	22.8	-66.14	148.3	2.4	1,030.5	999.9	30.59	33.693	
8,740.0	8,638.3	8,264.5	7,951.2	23.3	22.8	-63.08	134.0	2.3	1,052.2	1,021.7	30.52	34.474	
8,750.0	8,647.3	8,267.1	7,951.6	23.3	22.8	-62.39	131.4	2.3	1,057.6	1,027.1	30.50	34.674	
8,800.0	8,690.9	8,280.6	7,953.6	23.3	22.8	-59.04	118.1	2.2	1,084.4	1,054.0	30.42	35.643	
8,835.0	8,720.1	8,300.0	7,956.0	23.3	22.8	-56.46	98.9	2.0	1,102.9	1,072.4	30.43	36.242	
8,850.0	8,732.3	8,300.0	7,956.0	23.3	22.8	-55.72	98.9	2.0	1,110.5	1,080.1	30.40	36.533	
8,900.0	8,771.0	8,300.0	7,956.0	23.3	22.8	-53.33	98.9	2.0	1,135.8	1,105.5	30.32	37.456	
8,930.0	8,792.9	8,318.6	7,957.6	23.4	22.8	-51.43	80.4	1.9	1,150.4	1,120.0	30.37	37.881	
8,950.0	8,806.9	8,324.7	7,958.0	23.4	22.8	-50.42	74.2	1.8	1,159.9	1,129.5	30.38	38.180	
9,000.0	8,839.5	8,350.0	7,958.9	23.4	22.8	-47.84	49.0	1.6	1,182.8	1,152.4	30.46	38.836	
9,025.0	8,854.6	8,350.0	7,958.9	23.4	22.8	-46.96	49.0	1.6	1,193.6	1,163.1	30.47	39.174	
9,050.0	8,868.8	8,358.7	7,959.0	23.4	22.8	-45.93	40.3	1.5	1,204.1	1,173.6	30.51	39.472	
9,100.0	8,894.4	8,395.6	7,959.0	23.5	22.8	-43.77	3.3	1.3	1,223.6	1,192.9	30.63	39.946	
9,120.0	8,903.6	8,413.4	7,959.0	23.5	22.8	-42.98	-14.4	1.1	1,230.6	1,199.9	30.70	40.089	
9,150.0	8,916.2	8,440.6	7,959.0	23.5	22.8	-41.91	-41.7	0.9	1,240.3	1,209.5	30.80	40.267	
9,200.0	8,933.9	8,487.4	7,959.1	23.6	22.8	-40.45	-88.4	0.5	1,254.0	1,223.0	30.99	40.465	
9,215.0	8,938.5	8,501.7	7,959.1	23.6	22.8	-40.08	-102.7	0.4	1,257.5	1,226.5	31.05	40.499	
9,250.0	8,947.6	8,535.5	7,959.1	23.6	22.8	-39.36	-136.5	0.1	1,264.6	1,233.4	31.21	40.523	
9,300.0	8,957.0	8,584.6	7,959.1	23.7	22.8	-38.63	-185.6	-0.2	1,272.0	1,240.5	31.44	40.453	
9,310.0	8,958.3	8,594.5	7,959.1	23.7	22.8	-38.52	-195.5	-0.3	1,273.0	1,241.5	31.49	40.424	
9,350.0	8,962.0	8,634.3	7,959.1	23.7	22.8	-38.24	-235.3	-0.6	1,275.9	1,244.2	31.70	40.249	
9,382.9	8,963.0	8,667.1	7,959.2	23.8	22.8	-38.17	-268.1	-0.9	1,276.7	1,244.8	31.86	40.071	
9,400.0	8,963.0	8,684.3	7,959.2	23.8	22.8	-38.17	-285.3	-1.0	1,276.7	1,244.8	31.94	39.970	
9,405.0	8,963.0	8,689.3	7,959.2	23.8	22.9	-38.17	-290.3	-1.1	1,276.7	1,244.7	31.97	39.939	
9,500.0	8,963.1	8,784.3	7,959.2	23.9	22.9	-38.17	-385.3	-1.8	1,276.7	1,244.3	32.47	39.316	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,595.0	8,963.1	8,879.3	7,959.3	24.1	22.9	-38.17	-480.3	-2.6	1,276.8	1,243.7	33.04	38.643	
9,600.0	8,963.1	8,884.3	7,959.3	24.1	22.9	-38.17	-485.3	-2.6	1,276.8	1,243.7	33.07	38.608	
9,690.0	8,963.2	8,974.3	7,959.3	24.3	22.9	-38.17	-575.3	-3.3	1,276.8	1,243.1	33.66	37.931	
9,700.0	8,963.2	8,984.3	7,959.3	24.3	22.9	-38.17	-585.3	-3.4	1,276.8	1,243.1	33.73	37.857	
9,785.0	8,963.3	9,069.3	7,959.4	24.5	22.9	-38.17	-670.3	-4.1	1,276.8	1,242.5	34.33	37.189	
9,800.0	8,963.3	9,084.3	7,959.4	24.5	22.9	-38.17	-685.3	-4.2	1,276.8	1,242.4	34.44	37.073	
9,880.0	8,963.3	9,164.3	7,959.4	24.7	22.9	-38.17	-765.3	-4.9	1,276.9	1,241.8	35.05	36.425	
9,900.0	8,963.3	9,184.3	7,959.4	24.7	22.9	-38.17	-785.3	-5.0	1,276.9	1,241.7	35.21	36.265	
9,975.0	8,963.4	9,259.3	7,959.5	24.9	22.9	-38.17	-860.3	-5.6	1,276.9	1,241.1	35.82	35.645	
10,000.0	8,963.4	9,284.3	7,959.5	25.0	22.9	-38.17	-885.3	-5.8	1,276.9	1,240.9	36.03	35.442	
10,070.0	8,963.5	9,354.3	7,959.5	25.1	22.9	-38.17	-955.3	-6.4	1,276.9	1,240.3	36.63	34.858	
10,100.0	8,963.5	9,384.3	7,959.5	25.2	22.9	-38.17	-985.3	-6.6	1,276.9	1,240.0	36.89	34.612	
10,165.0	8,963.5	9,449.3	7,959.6	25.4	22.9	-38.17	-1,050.3	-7.1	1,276.9	1,239.5	37.48	34.068	
10,200.0	8,963.5	9,484.3	7,959.6	25.5	22.9	-38.17	-1,085.3	-7.4	1,277.0	1,239.2	37.80	33.781	
10,260.0	8,963.6	9,544.3	7,959.6	25.7	23.0	-38.17	-1,145.3	-7.9	1,277.0	1,238.6	38.37	33.281	
10,300.0	8,963.6	9,584.3	7,959.6	25.8	23.0	-38.17	-1,185.3	-8.2	1,277.0	1,238.2	38.75	32.954	
10,355.0	8,963.7	9,639.3	7,959.7	26.0	23.0	-38.18	-1,240.3	-8.6	1,277.0	1,237.7	39.29	32.500	
10,400.0	8,963.7	9,684.3	7,959.7	26.1	23.0	-38.18	-1,285.3	-9.0	1,277.0	1,237.3	39.74	32.137	
10,450.0	8,963.7	9,734.3	7,959.7	26.3	23.0	-38.18	-1,335.3	-9.4	1,277.0	1,236.8	40.25	31.730	
10,500.0	8,963.7	9,784.3	7,959.7	26.4	23.0	-38.18	-1,385.3	-9.8	1,277.1	1,236.3	40.76	31.332	
10,545.0	8,963.8	9,829.3	7,959.8	26.6	23.0	-38.18	-1,430.3	-10.1	1,277.1	1,235.8	41.23	30.972	
10,600.0	8,963.8	9,884.3	7,959.8	26.8	23.0	-38.18	-1,485.3	-10.6	1,277.1	1,235.3	41.81	30.542	
10,640.0	8,963.8	9,924.3	7,959.8	26.9	23.0	-38.18	-1,525.2	-10.9	1,277.1	1,234.8	42.25	30.230	
10,700.0	8,963.9	9,984.3	7,959.8	27.1	23.0	-38.18	-1,585.2	-11.4	1,277.1	1,234.2	42.90	29.771	
10,735.0	8,963.9	10,019.3	7,959.9	27.3	23.1	-38.18	-1,620.2	-11.6	1,277.1	1,233.8	43.29	29.504	
10,800.0	8,963.9	10,084.3	7,959.9	27.5	23.1	-38.18	-1,685.2	-12.2	1,277.1	1,233.1	44.01	29.019	
10,830.0	8,964.0	10,114.3	7,959.9	27.6	23.1	-38.18	-1,715.2	-12.4	1,277.2	1,232.8	44.35	28.797	
10,900.0	8,964.0	10,184.3	7,959.9	27.9	23.1	-38.18	-1,785.2	-13.0	1,277.2	1,232.0	45.15	28.288	
10,925.0	8,964.0	10,209.3	7,960.0	28.0	23.1	-38.18	-1,810.2	-13.2	1,277.2	1,231.7	45.44	28.108	
11,000.0	8,964.1	10,284.3	7,960.0	28.3	23.1	-38.18	-1,885.2	-13.8	1,277.2	1,230.9	46.31	27.579	
11,020.0	8,964.1	10,304.3	7,960.0	28.4	23.1	-38.18	-1,905.2	-13.9	1,277.2	1,230.7	46.55	27.439	
11,100.0	8,964.1	10,384.3	7,960.1	28.7	23.1	-38.18	-1,985.2	-14.5	1,277.2	1,229.7	47.50	26.892	
11,115.0	8,964.2	10,399.3	7,960.1	28.8	23.2	-38.18	-2,000.2	-14.7	1,277.2	1,229.6	47.68	26.790	
11,200.0	8,964.2	10,484.3	7,960.1	29.2	23.2	-38.18	-2,085.2	-15.3	1,277.3	1,228.6	48.70	26.227	
11,210.0	8,964.2	10,494.3	7,960.1	29.2	23.2	-38.18	-2,095.2	-15.4	1,277.3	1,228.5	48.82	26.162	
11,300.0	8,964.3	10,584.3	7,960.2	29.6	23.2	-38.18	-2,185.2	-16.1	1,277.3	1,227.4	49.93	25.584	
11,305.0	8,964.3	10,589.3	7,960.2	29.6	23.2	-38.18	-2,190.2	-16.2	1,277.3	1,227.3	49.99	25.553	
11,400.0	8,964.3	10,684.3	7,960.2	30.1	23.2	-38.18	-2,285.2	-16.9	1,277.3	1,226.2	51.17	24.964	
11,495.0	8,964.4	10,779.3	7,960.3	30.5	23.3	-38.18	-2,380.2	-17.7	1,277.4	1,225.0	52.36	24.394	
11,500.0	8,964.4	10,784.3	7,960.3	30.6	23.3	-38.18	-2,385.2	-17.7	1,277.4	1,224.9	52.43	24.365	
11,590.0	8,964.5	10,874.3	7,960.3	31.0	23.6	-38.18	-2,475.2	-18.4	1,277.4	1,223.8	53.57	23.844	
11,600.0	8,964.5	10,884.3	7,960.3	31.0	23.7	-38.18	-2,485.2	-18.5	1,277.4	1,223.7	53.70	23.788	
11,685.0	8,964.5	10,969.3	7,960.4	31.5	24.3	-38.18	-2,570.2	-19.2	1,277.4	1,222.6	54.80	23.313	
11,700.0	8,964.6	10,984.3	7,960.4	31.5	24.4	-38.18	-2,585.2	-19.3	1,277.4	1,222.4	54.99	23.231	
11,780.0	8,964.6	11,064.3	7,960.4	31.9	24.9	-38.19	-2,665.2	-20.0	1,277.5	1,221.4	56.03	22.800	
11,800.0	8,964.6	11,084.3	7,960.4	32.0	25.0	-38.19	-2,685.2	-20.1	1,277.5	1,221.2	56.29	22.694	
11,875.0	8,964.7	11,159.3	7,960.5	32.4	25.6	-38.19	-2,760.2	-20.7	1,277.5	1,220.2	57.28	22.304	
11,900.0	8,964.7	11,184.3	7,960.5	32.6	25.7	-38.19	-2,785.2	-20.9	1,277.5	1,219.9	57.60	22.177	
11,970.0	8,964.7	11,254.3	7,960.5	32.9	26.2	-38.19	-2,855.2	-21.5	1,277.5	1,219.0	58.53	21.826	
12,000.0	8,964.8	11,284.3	7,960.5	33.1	26.4	-38.19	-2,885.2	-21.7	1,277.5	1,218.6	58.93	21.678	
12,065.0	8,964.8	11,349.3	7,960.6	33.4	26.9	-38.19	-2,950.2	-22.2	1,277.5	1,217.7	59.80	21.364	

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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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)		
12,100.0	8,964.8	11,384.3	7,960.6	33.6	27.1	-38.19	-2,985.2	-22.5	1,277.6	1,217.3	60.27	21.198	
12,160.0	8,964.9	11,444.3	7,960.6	34.0	27.5	-38.19	-3,045.2	-23.0	1,277.6	1,216.5	61.08	20.918	
12,200.0	8,964.9	11,484.3	7,960.6	34.2	27.8	-38.19	-3,085.2	-23.3	1,277.6	1,216.0	61.61	20.735	
12,255.0	8,964.9	11,539.3	7,960.6	34.5	28.2	-38.19	-3,140.2	-23.7	1,277.6	1,215.2	62.36	20.487	
12,300.0	8,965.0	11,584.3	7,960.7	34.7	28.5	-38.19	-3,185.2	-24.1	1,277.6	1,214.7	62.97	20.289	
12,350.0	8,965.0	11,634.3	7,960.7	35.0	28.9	-38.19	-3,235.2	-24.5	1,277.6	1,214.0	63.65	20.072	
12,400.0	8,965.0	11,684.3	7,960.7	35.3	29.2	-38.19	-3,285.2	-24.9	1,277.7	1,213.3	64.34	19.859	
12,445.0	8,965.0	11,729.3	7,960.7	35.5	29.5	-38.19	-3,330.2	-25.2	1,277.7	1,212.7	64.95	19.670	
12,500.0	8,965.1	11,784.3	7,960.8	35.9	29.9	-38.19	-3,385.2	-25.7	1,277.7	1,212.0	65.71	19.444	
12,540.0	8,965.1	11,824.3	7,960.8	36.1	30.2	-38.19	-3,425.2	-26.0	1,277.7	1,211.4	66.26	19.282	
12,600.0	8,965.2	11,884.3	7,960.8	36.4	30.6	-38.19	-3,485.2	-26.5	1,277.7	1,210.6	67.09	19.044	
12,635.0	8,965.2	11,919.3	7,960.8	36.6	30.9	-38.19	-3,520.2	-26.7	1,277.7	1,210.1	67.58	18.907	
12,700.0	8,965.2	11,984.3	7,960.9	37.0	31.4	-38.19	-3,585.2	-27.3	1,277.7	1,209.3	68.48	18.658	
12,730.0	8,965.2	12,014.3	7,960.9	37.2	31.6	-38.19	-3,615.2	-27.5	1,277.8	1,208.9	68.90	18.545	
12,800.0	8,965.3	12,084.3	7,960.9	37.6	32.1	-38.19	-3,685.2	-28.1	1,277.8	1,207.9	69.88	18.286	
12,825.0	8,965.3	12,109.3	7,960.9	37.8	32.3	-38.19	-3,710.2	-28.3	1,277.8	1,207.6	70.23	18.195	
12,900.0	8,965.4	12,184.3	7,961.0	38.2	32.8	-38.19	-3,785.2	-28.9	1,277.8	1,206.5	71.28	17.926	
12,920.0	8,965.4	12,204.3	7,961.0	38.3	32.9	-38.19	-3,805.2	-29.0	1,277.8	1,206.3	71.56	17.856	
13,000.0	8,965.4	12,284.3	7,961.0	38.8	33.5	-38.19	-3,885.2	-29.6	1,277.8	1,205.2	72.69	17.579	
13,015.0	8,965.4	12,299.3	7,961.0	38.9	33.6	-38.19	-3,900.2	-29.8	1,277.8	1,204.9	72.90	17.528	
13,100.0	8,965.5	12,384.3	7,961.1	39.4	34.2	-38.19	-3,985.2	-30.4	1,277.9	1,203.8	74.10	17.244	
13,110.0	8,965.5	12,394.3	7,961.1	39.5	34.3	-38.19	-3,995.2	-30.5	1,277.9	1,203.6	74.25	17.211	
13,200.0	8,965.6	12,484.3	7,961.1	40.0	35.0	-38.20	-4,085.2	-31.2	1,277.9	1,202.4	75.53	16.920	
13,205.0	8,965.6	12,489.3	7,961.1	40.1	35.0	-38.20	-4,090.2	-31.3	1,277.9	1,202.3	75.60	16.904	
13,300.0	8,965.6	12,584.3	7,961.2	40.7	35.7	-38.20	-4,185.2	-32.0	1,277.9	1,201.0	76.95	16.607	
13,395.0	8,965.7	12,679.3	7,961.2	41.3	36.4	-38.20	-4,280.2	-32.8	1,278.0	1,199.7	78.31	16.319	
13,400.0	8,965.7	12,684.3	7,961.2	41.3	36.4	-38.20	-4,285.2	-32.8	1,278.0	1,199.6	78.38	16.305	
13,490.0	8,965.7	12,774.3	7,961.3	41.9	37.1	-38.20	-4,375.2	-33.5	1,278.0	1,198.3	79.67	16.041	
13,500.0	8,965.8	12,784.3	7,961.3	41.9	37.1	-38.20	-4,385.2	-33.6	1,278.0	1,198.2	79.82	16.012	
13,585.0	8,965.8	12,869.3	7,961.3	42.5	37.8	-38.20	-4,470.2	-34.3	1,278.0	1,197.0	81.04	15.770	
13,600.0	8,965.8	12,884.3	7,961.3	42.5	37.9	-38.20	-4,485.2	-34.4	1,278.0	1,196.8	81.26	15.729	
13,680.0	8,965.9	12,964.3	7,961.4	43.1	38.5	-38.20	-4,565.2	-35.1	1,278.1	1,195.6	82.41	15.508	
13,700.0	8,965.9	12,984.3	7,961.4	43.2	38.6	-38.20	-4,585.2	-35.2	1,278.1	1,195.4	82.70	15.454	
13,775.0	8,965.9	13,059.3	7,961.4	43.7	39.2	-38.20	-4,660.1	-35.8	1,278.1	1,194.3	83.79	15.254	
13,800.0	8,966.0	13,084.3	7,961.5	43.8	39.3	-38.20	-4,685.1	-36.0	1,278.1	1,194.0	84.15	15.189	
13,870.0	8,966.0	13,154.3	7,961.5	44.3	39.9	-38.20	-4,755.1	-36.6	1,278.1	1,193.0	85.16	15.008	
13,900.0	8,966.0	13,184.3	7,961.5	44.5	40.1	-38.20	-4,785.1	-36.8	1,278.1	1,192.5	85.60	14.932	
13,965.0	8,966.1	13,249.3	7,961.5	44.9	40.6	-38.20	-4,850.1	-37.3	1,278.1	1,191.6	86.54	14.769	
14,000.0	8,966.1	13,284.3	7,961.6	45.1	40.8	-38.20	-4,885.1	-37.6	1,278.2	1,191.1	87.05	14.682	
14,060.0	8,966.1	13,344.3	7,961.6	45.5	41.3	-38.20	-4,945.1	-38.1	1,278.2	1,190.3	87.93	14.537	
14,100.0	8,966.2	13,384.3	7,961.6	45.8	41.5	-38.20	-4,985.1	-38.4	1,278.2	1,189.7	88.51	14.441	
14,155.0	8,966.2	13,439.3	7,961.6	46.1	42.0	-38.20	-5,040.1	-38.8	1,278.2	1,188.9	89.32	14.311	
14,200.0	8,966.2	13,484.3	7,961.7	46.4	42.3	-38.20	-5,085.1	-39.2	1,278.2	1,188.3	89.97	14.207	
14,250.0	8,966.3	13,534.3	7,961.7	46.8	42.7	-38.20	-5,135.1	-39.6	1,278.2	1,187.5	90.71	14.092	
14,300.0	8,966.3	13,584.3	7,961.7	47.1	43.0	-38.20	-5,185.1	-40.0	1,278.3	1,186.8	91.44	13.979	
14,345.0	8,966.3	13,629.3	7,961.7	47.4	43.4	-38.20	-5,230.1	-40.3	1,278.3	1,186.2	92.10	13.879	
14,400.0	8,966.4	13,684.3	7,961.8	47.8	43.8	-38.20	-5,285.1	-40.8	1,278.3	1,185.4	92.91	13.759	
14,440.0	8,966.4	13,724.3	7,961.8	48.0	44.1	-38.20	-5,325.1	-41.1	1,278.3	1,184.8	93.49	13.672	
14,500.0	8,966.4	13,784.3	7,961.8	48.4	44.5	-38.20	-5,385.1	-41.6	1,278.3	1,183.9	94.38	13.545	
14,535.0	8,966.4	13,819.3	7,961.8	48.7	44.8	-38.21	-5,420.1	-41.8	1,278.3	1,183.4	94.89	13.471	
14,600.0	8,966.5	13,884.3	7,961.9	49.1	45.2	-38.21	-5,485.1	-42.4	1,278.4	1,182.5	95.85	13.337	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)		
14,630.0	8,966.5	13,914.3	7,961.9	49.3	45.5	-38.21	-5,515.1	-42.6	1,278.4	1,182.1	96.29	13.276	
14,700.0	8,966.6	13,984.3	7,961.9	49.8	46.0	-38.21	-5,585.1	-43.2	1,278.4	1,181.1	97.33	13.135	
14,725.0	8,966.6	14,009.3	7,961.9	50.0	46.2	-38.21	-5,610.1	-43.4	1,278.4	1,180.7	97.70	13.085	
14,800.0	8,966.6	14,084.3	7,962.0	50.5	46.7	-38.21	-5,685.1	-44.0	1,278.4	1,179.6	98.80	12.939	
14,820.0	8,966.6	14,104.3	7,962.0	50.6	46.9	-38.21	-5,705.1	-44.1	1,278.4	1,179.3	99.10	12.900	
14,900.0	8,966.7	14,184.3	7,962.0	51.1	47.5	-38.21	-5,785.1	-44.7	1,278.4	1,178.2	100.28	12.748	
14,915.0	8,966.7	14,199.3	7,962.0	51.2	47.6	-38.21	-5,800.1	-44.9	1,278.5	1,177.9	100.51	12.720	
15,000.0	8,966.8	14,284.3	7,962.1	51.8	48.2	-38.21	-5,885.1	-45.5	1,278.5	1,176.7	101.77	12.563	
15,010.0	8,966.8	14,294.3	7,962.1	51.9	48.3	-38.21	-5,895.1	-45.6	1,278.5	1,176.6	101.92	12.544	
15,100.0	8,966.8	14,384.3	7,962.1	52.5	49.0	-38.21	-5,985.1	-46.3	1,278.5	1,175.3	103.25	12.382	
15,105.0	8,966.8	14,389.3	7,962.1	52.5	49.0	-38.21	-5,990.1	-46.4	1,278.5	1,175.2	103.33	12.373	
15,200.0	8,966.9	14,484.3	7,962.2	53.2	49.7	-38.21	-6,085.1	-47.1	1,278.5	1,173.8	104.74	12.207	
15,295.0	8,967.0	14,579.3	7,962.2	53.8	50.4	-38.21	-6,180.1	-47.9	1,278.6	1,172.4	106.15	12.045	
15,300.0	8,967.0	14,584.3	7,962.2	53.9	50.4	-38.21	-6,185.1	-47.9	1,278.6	1,172.3	106.23	12.036	
15,390.0	8,967.0	14,674.3	7,962.3	54.5	51.1	-38.21	-6,275.1	-48.6	1,278.6	1,171.0	107.57	11.886	
15,400.0	8,967.0	14,684.3	7,962.3	54.6	51.2	-38.21	-6,285.1	-48.7	1,278.6	1,170.9	107.72	11.870	
15,485.0	8,967.1	14,769.3	7,962.3	55.2	51.8	-38.21	-6,370.1	-49.4	1,278.6	1,169.6	108.99	11.732	
15,500.0	8,967.1	14,784.3	7,962.3	55.3	51.9	-38.21	-6,385.1	-49.5	1,278.6	1,169.4	109.21	11.708	
15,580.0	8,967.1	14,864.3	7,962.4	55.8	52.5	-38.21	-6,465.1	-50.2	1,278.7	1,168.3	110.41	11.581	
15,600.0	8,967.2	14,884.3	7,962.4	56.0	52.7	-38.21	-6,485.1	-50.3	1,278.7	1,168.0	110.71	11.550	
15,675.0	8,967.2	14,959.3	7,962.4	56.5	53.3	-38.21	-6,560.1	-50.9	1,278.7	1,166.9	111.83	11.434	
15,700.0	8,967.2	14,984.3	7,962.4	56.7	53.4	-38.21	-6,585.1	-51.1	1,278.7	1,166.5	112.20	11.396	
15,770.0	8,967.3	15,054.3	7,962.5	57.1	54.0	-38.21	-6,655.1	-51.7	1,278.7	1,165.5	113.25	11.291	
15,800.0	8,967.3	15,084.3	7,962.5	57.3	54.2	-38.21	-6,685.1	-51.9	1,278.7	1,165.0	113.70	11.247	
15,865.0	8,967.3	15,149.3	7,962.5	57.8	54.7	-38.21	-6,750.1	-52.4	1,278.8	1,164.1	114.67	11.151	
15,900.0	8,967.4	15,184.3	7,962.5	58.0	54.9	-38.21	-6,785.1	-52.7	1,278.8	1,163.6	115.20	11.100	
15,960.0	8,967.4	15,244.3	7,962.6	58.5	55.4	-38.22	-6,845.1	-53.2	1,278.8	1,162.7	116.10	11.015	
16,000.0	8,967.4	15,284.3	7,962.6	58.7	55.7	-38.22	-6,885.1	-53.5	1,278.8	1,162.1	116.70	10.958	
16,055.0	8,967.5	15,339.3	7,962.6	59.1	56.1	-38.22	-6,940.1	-53.9	1,278.8	1,161.3	117.53	10.881	
16,100.0	8,967.5	15,384.3	7,962.6	59.5	56.4	-38.22	-6,985.1	-54.3	1,278.8	1,160.6	118.20	10.819	
16,150.0	8,967.5	15,434.3	7,962.7	59.8	56.8	-38.22	-7,035.1	-54.7	1,278.8	1,159.9	118.95	10.751	
16,200.0	8,967.6	15,484.3	7,962.7	60.2	57.2	-38.22	-7,085.1	-55.1	1,278.9	1,159.2	119.70	10.683	
16,245.0	8,967.6	15,529.3	7,962.7	60.5	57.5	-38.22	-7,130.1	-55.4	1,278.9	1,158.5	120.38	10.623	
16,300.0	8,967.6	15,584.3	7,962.7	60.9	57.9	-38.22	-7,185.1	-55.9	1,278.9	1,157.7	121.21	10.551	
16,340.0	8,967.7	15,624.3	7,962.8	61.1	58.2	-38.22	-7,225.1	-56.2	1,278.9	1,157.1	121.81	10.499	
16,400.0	8,967.7	15,684.3	7,962.8	61.6	58.7	-38.22	-7,285.1	-56.7	1,278.9	1,156.2	122.72	10.422	
16,435.0	8,967.7	15,719.3	7,962.8	61.8	58.9	-38.22	-7,320.1	-56.9	1,278.9	1,155.7	123.24	10.377	
16,500.0	8,967.8	15,784.3	7,962.9	62.3	59.4	-38.22	-7,385.1	-57.5	1,279.0	1,154.7	124.22	10.296	
16,530.0	8,967.8	15,814.3	7,962.9	62.5	59.7	-38.22	-7,415.1	-57.7	1,279.0	1,154.3	124.67	10.258	
16,600.0	8,967.8	15,884.3	7,962.9	63.0	60.2	-38.22	-7,485.1	-58.3	1,279.0	1,153.3	125.73	10.172	
16,625.0	8,967.8	15,909.3	7,962.9	63.2	60.4	-38.22	-7,510.1	-58.5	1,279.0	1,152.9	126.11	10.142	
16,700.0	8,967.9	15,984.3	7,963.0	63.7	60.9	-38.22	-7,585.1	-59.1	1,279.0	1,151.8	127.24	10.052	
16,720.0	8,967.9	16,004.3	7,963.0	63.8	61.1	-38.22	-7,605.1	-59.2	1,279.0	1,151.5	127.54	10.028	
16,800.0	8,968.0	16,084.3	7,963.0	64.4	61.7	-38.22	-7,685.1	-59.8	1,279.0	1,150.3	128.75	9.934	
16,815.0	8,968.0	16,099.3	7,963.0	64.5	61.8	-38.22	-7,700.1	-60.0	1,279.1	1,150.1	128.98	9.917	
16,900.0	8,968.0	16,184.3	7,963.1	65.1	62.4	-38.22	-7,785.0	-60.6	1,279.1	1,148.8	130.26	9.819	
16,910.0	8,968.0	16,194.3	7,963.1	65.2	62.5	-38.22	-7,795.0	-60.7	1,279.1	1,148.7	130.41	9.808	
17,000.0	8,968.1	16,284.3	7,963.1	65.8	63.2	-38.22	-7,885.0	-61.4	1,279.1	1,147.3	131.77	9.707	
17,005.0	8,968.1	16,289.3	7,963.1	65.9	63.2	-38.22	-7,890.0	-61.5	1,279.1	1,147.3	131.85	9.701	
17,100.0	8,968.2	16,384.3	7,963.2	66.6	63.9	-38.22	-7,985.0	-62.2	1,279.1	1,145.9	133.29	9.597	
17,195.0	8,968.2	16,479.3	7,963.2	67.2	64.7	-38.22	-8,080.0	-63.0	1,279.2	1,144.4	134.73	9.495	

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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,200.0	8,968.2	16,484.3	7,963.2	67.3	64.7	-38.22	-8,085.0	-63.0	1,279.2	1,144.4	134.80	9.489		
17,290.0	8,968.3	16,574.3	7,963.3	67.9	65.4	-38.22	-8,175.0	-63.7	1,279.2	1,143.0	136.17	9.394		
17,300.0	8,968.3	16,584.3	7,963.3	68.0	65.5	-38.22	-8,185.0	-63.8	1,279.2	1,142.9	136.32	9.384		
17,385.0	8,968.4	16,669.3	7,963.3	68.6	66.1	-38.23	-8,270.0	-64.5	1,279.2	1,141.6	137.61	9.296		
17,400.0	8,968.4	16,684.3	7,963.3	68.7	66.2	-38.23	-8,285.0	-64.6	1,279.2	1,141.4	137.83	9.281		
17,480.0	8,968.4	16,764.3	7,963.4	69.3	66.8	-38.23	-8,365.0	-65.3	1,279.3	1,140.2	139.05	9.200		
17,500.0	8,968.4	16,784.3	7,963.4	69.4	67.0	-38.23	-8,385.0	-65.4	1,279.3	1,139.9	139.35	9.180		
17,575.0	8,968.5	16,859.3	7,963.4	70.0	67.5	-38.23	-8,460.0	-66.0	1,279.3	1,138.8	140.49	9.106		
17,600.0	8,968.5	16,884.3	7,963.4	70.2	67.7	-38.23	-8,485.0	-66.2	1,279.3	1,138.4	140.87	9.081		
17,670.0	8,968.5	16,954.3	7,963.5	70.7	68.2	-38.23	-8,555.0	-66.8	1,279.3	1,137.4	141.93	9.014		
17,700.0	8,968.6	16,984.3	7,963.5	70.9	68.5	-38.23	-8,585.0	-67.0	1,279.3	1,136.9	142.39	8.985		
17,765.0	8,968.6	17,049.3	7,963.5	71.3	69.0	-38.23	-8,650.0	-67.5	1,279.4	1,136.0	143.38	8.923		
17,800.0	8,968.6	17,084.3	7,963.5	71.6	69.2	-38.23	-8,685.0	-67.8	1,279.4	1,135.5	143.91	8.890		
17,860.0	8,968.7	17,144.3	7,963.6	72.0	69.7	-38.23	-8,745.0	-68.3	1,279.4	1,134.6	144.82	8.834		
17,900.0	8,968.7	17,184.3	7,963.6	72.3	70.0	-38.23	-8,785.0	-68.6	1,279.4	1,134.0	145.43	8.797		
17,955.0	8,968.7	17,239.3	7,963.6	72.7	70.4	-38.23	-8,840.0	-69.0	1,279.4	1,133.2	146.27	8.747		
18,000.0	8,968.8	17,284.3	7,963.6	73.1	70.7	-38.23	-8,885.0	-69.4	1,279.4	1,132.5	146.95	8.707		
18,050.0	8,968.8	17,334.3	7,963.7	73.4	71.1	-38.23	-8,935.0	-69.8	1,279.4	1,131.7	147.71	8.662		
18,100.0	8,968.8	17,384.3	7,963.7	73.8	71.5	-38.23	-8,985.0	-70.2	1,279.5	1,131.0	148.47	8.618		
18,145.0	8,968.9	17,429.3	7,963.7	74.1	71.8	-38.23	-9,030.0	-70.5	1,279.5	1,130.3	149.16	8.578		
18,200.0	8,968.9	17,484.3	7,963.7	74.5	72.2	-38.23	-9,085.0	-71.0	1,279.5	1,129.5	149.99	8.530		
18,240.0	8,968.9	17,524.3	7,963.8	74.8	72.5	-38.23	-9,125.0	-71.3	1,279.5	1,128.9	150.60	8.496		
18,300.0	8,969.0	17,584.3	7,963.8	75.2	73.0	-38.23	-9,185.0	-71.8	1,279.5	1,128.0	151.52	8.445		
18,335.0	8,969.0	17,619.3	7,963.8	75.5	73.3	-38.23	-9,220.0	-72.0	1,279.5	1,127.5	152.05	8.415		
18,400.0	8,969.0	17,684.3	7,963.8	76.0	73.7	-38.23	-9,285.0	-72.6	1,279.6	1,126.5	153.04	8.361		
18,430.0	8,969.1	17,714.3	7,963.9	76.2	74.0	-38.23	-9,315.0	-72.8	1,279.6	1,126.1	153.50	8.336		
18,500.0	8,969.1	17,784.3	7,963.9	76.7	74.5	-38.23	-9,385.0	-73.4	1,279.6	1,125.0	154.57	8.279		
18,525.0	8,969.1	17,809.3	7,963.9	76.9	74.7	-38.23	-9,410.0	-73.6	1,279.6	1,124.6	154.95	8.258		
18,600.0	8,969.2	17,884.3	7,963.9	77.4	75.3	-38.23	-9,485.0	-74.2	1,279.6	1,123.5	156.09	8.198		
18,620.0	8,969.2	17,904.3	7,964.0	77.6	75.4	-38.23	-9,505.0	-74.3	1,279.6	1,123.2	156.40	8.182		
18,700.0	8,969.2	17,984.3	7,964.0	78.1	76.0	-38.23	-9,585.0	-74.9	1,279.7	1,122.0	157.62	8.119		
18,715.0	8,969.2	17,999.3	7,964.0	78.3	76.1	-38.23	-9,600.0	-75.1	1,279.7	1,121.8	157.85	8.107		
18,800.0	8,969.3	18,084.3	7,964.0	78.9	76.8	-38.24	-9,685.0	-75.7	1,279.7	1,120.5	159.14	8.041		
18,810.0	8,969.3	18,094.3	7,964.1	79.0	76.8	-38.24	-9,695.0	-75.8	1,279.7	1,120.4	159.30	8.033		
18,900.0	8,969.4	18,184.3	7,964.1	79.6	77.5	-38.24	-9,785.0	-76.5	1,279.7	1,119.0	160.67	7.965		
18,905.0	8,969.4	18,189.3	7,964.1	79.6	77.6	-38.24	-9,790.0	-76.6	1,279.7	1,119.0	160.75	7.961		
19,000.0	8,969.4	18,284.3	7,964.1	80.3	78.3	-38.24	-9,885.0	-77.3	1,279.7	1,117.6	162.20	7.890		
19,095.0	8,969.5	18,379.3	7,964.2	81.0	79.0	-38.24	-9,980.0	-78.1	1,279.8	1,116.1	163.65	7.820		
19,100.0	8,969.5	18,384.3	7,964.2	81.1	79.0	-38.24	-9,985.0	-78.1	1,279.8	1,116.1	163.72	7.817		
19,190.0	8,969.6	18,474.3	7,964.2	81.7	79.7	-38.24	-10,075.0	-78.8	1,279.8	1,114.7	165.10	7.752		
19,200.0	8,969.6	18,484.3	7,964.3	81.8	79.8	-38.24	-10,085.0	-78.9	1,279.8	1,114.6	165.25	7.745		
19,285.0	8,969.6	18,569.3	7,964.3	82.4	80.4	-38.24	-10,170.0	-79.6	1,279.8	1,113.3	166.55	7.684		
19,300.0	8,969.6	18,584.3	7,964.3	82.5	80.6	-38.24	-10,185.0	-79.7	1,279.8	1,113.1	166.78	7.674		
19,380.0	8,969.7	18,664.3	7,964.3	83.1	81.2	-38.24	-10,265.0	-80.3	1,279.9	1,111.9	168.01	7.618		
19,400.0	8,969.7	18,684.3	7,964.4	83.3	81.3	-38.24	-10,285.0	-80.5	1,279.9	1,111.6	168.31	7.604		
19,475.0	8,969.8	18,759.3	7,964.4	83.8	81.9	-38.24	-10,360.0	-81.1	1,279.9	1,110.4	169.46	7.553		
19,500.0	8,969.8	18,784.3	7,964.4	84.0	82.1	-38.24	-10,385.0	-81.3	1,279.9	1,110.1	169.84	7.536		
19,570.0	8,969.8	18,854.3	7,964.4	84.5	82.6	-38.24	-10,455.0	-81.9	1,279.9	1,109.0	170.91	7.489		
19,600.0	8,969.8	18,884.3	7,964.5	84.7	82.8	-38.24	-10,485.0	-82.1	1,279.9	1,108.6	171.37	7.469		
19,665.0	8,969.9	18,949.3	7,964.5	85.2	83.3	-38.24	-10,550.0	-82.6	1,280.0	1,107.6	172.37	7.426		
19,700.0	8,969.9	18,984.3	7,964.5	85.5	83.6	-38.24	-10,585.0	-82.9	1,280.0	1,107.1	172.90	7.403		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)		
19,760.0	8,969.9	19,044.3	7,964.5	85.9	84.0	-38.24	-10,645.0	-83.4	1,280.0	1,106.2	173.82	7.364
19,800.0	8,970.0	19,084.3	7,964.6	86.2	84.3	-38.24	-10,685.0	-83.7	1,280.0	1,105.6	174.43	7.338
19,855.0	8,970.0	19,139.3	7,964.6	86.6	84.8	-38.24	-10,740.0	-84.1	1,280.0	1,104.7	175.28	7.303
19,900.0	8,970.0	19,184.3	7,964.6	87.0	85.1	-38.24	-10,785.0	-84.5	1,280.0	1,104.1	175.97	7.274
19,950.0	8,970.1	19,234.3	7,964.6	87.3	85.5	-38.24	-10,835.0	-84.9	1,280.0	1,103.3	176.73	7.243
20,000.0	8,970.1	19,284.3	7,964.7	87.7	85.9	-38.24	-10,885.0	-85.3	1,280.1	1,102.6	177.50	7.212
20,045.0	8,970.1	19,329.3	7,964.7	88.0	86.2	-38.24	-10,929.9	-85.6	1,280.1	1,101.9	178.19	7.184
20,100.0	8,970.2	19,384.3	7,964.7	88.4	86.6	-38.24	-10,984.9	-86.1	1,280.1	1,101.1	179.03	7.150
20,140.0	8,970.2	19,424.3	7,964.7	88.7	86.9	-38.25	-11,024.9	-86.4	1,280.1	1,100.5	179.64	7.126
20,200.0	8,970.2	19,484.3	7,964.8	89.2	87.4	-38.25	-11,084.9	-86.9	1,280.1	1,099.6	180.56	7.090
20,235.0	8,970.3	19,519.3	7,964.8	89.4	87.6	-38.25	-11,119.9	-87.1	1,280.1	1,099.0	181.10	7.069
20,300.0	8,970.3	19,584.3	7,964.8	89.9	88.1	-38.25	-11,184.9	-87.7	1,280.2	1,098.1	182.10	7.030
20,330.0	8,970.3	19,614.3	7,964.8	90.1	88.4	-38.25	-11,214.9	-87.9	1,280.2	1,097.6	182.56	7.012
20,400.0	8,970.4	19,684.3	7,964.9	90.6	88.9	-38.25	-11,284.9	-88.5	1,280.2	1,096.6	183.63	6.972
20,425.0	8,970.4	19,709.3	7,964.9	90.8	89.1	-38.25	-11,309.9	-88.7	1,280.2	1,096.2	184.01	6.957
20,500.0	8,970.4	19,784.3	7,964.9	91.4	89.6	-38.25	-11,384.9	-89.3	1,280.2	1,095.1	185.16	6.914
20,520.0	8,970.5	19,804.3	7,964.9	91.5	89.8	-38.25	-11,404.9	-89.4	1,280.2	1,094.8	185.47	6.903
20,600.0	8,970.5	19,884.3	7,965.0	92.1	90.4	-38.25	-11,484.9	-90.0	1,280.3	1,093.6	186.70	6.857
20,615.0	8,970.5	19,899.3	7,965.0	92.2	90.5	-38.25	-11,499.9	-90.2	1,280.3	1,093.3	186.93	6.849
20,700.0	8,970.6	19,984.3	7,965.0	92.9	91.2	-38.25	-11,584.9	-90.8	1,280.3	1,092.1	188.23	6.802
20,710.0	8,970.6	19,994.3	7,965.0	92.9	91.2	-38.25	-11,594.9	-90.9	1,280.3	1,091.9	188.39	6.796
20,800.0	8,970.6	20,084.3	7,965.1	93.6	91.9	-38.25	-11,684.9	-91.6	1,280.3	1,090.6	189.77	6.747
20,805.0	8,970.6	20,089.3	7,965.1	93.6	92.0	-38.25	-11,689.9	-91.7	1,280.3	1,090.5	189.84	6.744
20,900.0	8,970.7	20,184.3	7,965.1	94.3	92.7	-38.25	-11,784.9	-92.4	1,280.4	1,089.0	191.30	6.693
20,995.0	8,970.8	20,279.3	7,965.2	95.1	93.4	-38.25	-11,879.9	-93.2	1,280.4	1,087.6	192.76	6.642
21,000.0	8,970.8	20,284.3	7,965.2	95.1	93.4	-38.25	-11,884.9	-93.2	1,280.4	1,087.5	192.84	6.640
21,090.0	8,970.8	20,374.3	7,965.2	95.8	94.1	-38.25	-11,974.9	-93.9	1,280.4	1,086.2	194.22	6.593
21,100.0	8,970.8	20,384.3	7,965.2	95.8	94.2	-38.25	-11,984.9	-94.0	1,280.4	1,086.0	194.37	6.587
21,185.0	8,970.9	20,469.3	7,965.3	96.5	94.8	-38.25	-12,069.9	-94.7	1,280.4	1,084.8	195.68	6.544
21,200.0	8,970.9	20,484.3	7,965.3	96.6	95.0	-38.25	-12,084.9	-94.8	1,280.4	1,084.5	195.91	6.536
21,280.0	8,971.0	20,564.3	7,965.3	97.2	95.6	-38.25	-12,164.9	-95.4	1,280.5	1,083.3	197.14	6.495
21,300.0	8,971.0	20,584.3	7,965.3	97.3	95.7	-38.25	-12,184.9	-95.6	1,280.5	1,083.0	197.45	6.485
21,375.0	8,971.0	20,659.3	7,965.4	97.9	96.3	-38.25	-12,259.9	-96.2	1,280.5	1,081.9	198.60	6.448
21,400.0	8,971.0	20,684.3	7,965.4	98.1	96.5	-38.25	-12,284.9	-96.4	1,280.5	1,081.5	198.98	6.435
21,470.0	8,971.1	20,754.3	7,965.4	98.6	97.0	-38.25	-12,354.9	-97.0	1,280.5	1,080.5	200.06	6.401
21,500.0	8,971.1	20,784.3	7,965.4	98.8	97.2	-38.25	-12,384.9	-97.2	1,280.5	1,080.0	200.52	6.386
21,565.0	8,971.2	20,849.3	7,965.5	99.3	97.7	-38.26	-12,449.9	-97.7	1,280.6	1,079.0	201.52	6.355
21,600.0	8,971.2	20,884.3	7,965.5	99.5	98.0	-38.26	-12,484.9	-98.0	1,280.6	1,078.5	202.06	6.338
21,660.0	8,971.2	20,944.3	7,965.5	100.0	98.5	-38.26	-12,544.9	-98.5	1,280.6	1,077.6	202.98	6.309
21,700.0	8,971.2	20,984.3	7,965.5	100.3	98.8	-38.26	-12,584.9	-98.8	1,280.6	1,077.0	203.60	6.290
21,755.0	8,971.3	21,039.3	7,965.6	100.7	99.2	-38.26	-12,639.9	-99.2	1,280.6	1,076.2	204.44	6.264
21,800.0	8,971.3	21,084.3	7,965.6	101.0	99.5	-38.26	-12,684.9	-99.6	1,280.6	1,075.5	205.13	6.243
21,850.0	8,971.3	21,134.3	7,965.6	101.4	99.9	-38.26	-12,734.9	-100.0	1,280.7	1,074.7	205.90	6.220
21,900.0	8,971.4	21,184.3	7,965.7	101.8	100.3	-38.26	-12,784.9	-100.4	1,280.7	1,074.0	206.67	6.197
21,945.0	8,971.4	21,229.3	7,965.7	102.1	100.6	-38.26	-12,829.9	-100.7	1,280.7	1,073.3	207.36	6.176
22,000.0	8,971.4	21,284.3	7,965.7	102.5	101.0	-38.26	-12,884.9	-101.2	1,280.7	1,072.5	208.21	6.151
22,040.0	8,971.5	21,324.3	7,965.7	102.8	101.3	-38.26	-12,924.9	-101.5	1,280.7	1,071.9	208.83	6.133
22,100.0	8,971.5	21,384.3	7,965.8	103.3	101.8	-38.26	-12,984.9	-102.0	1,280.7	1,071.0	209.75	6.106
22,135.0	8,971.5	21,419.3	7,965.8	103.5	102.1	-38.26	-13,019.9	-102.2	1,280.7	1,070.5	210.29	6.090
22,200.0	8,971.6	21,484.3	7,965.8	104.0	102.6	-38.26	-13,084.9	-102.8	1,280.8	1,069.5	211.29	6.062
22,230.0	8,971.6	21,514.3	7,965.8	104.2	102.8	-38.26	-13,114.9	-103.0	1,280.8	1,069.0	211.75	6.049

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation 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
22,300.0	8,971.6	21,584.3	7,965.9	104.8	103.3	-38.26	-13,184.9	-103.6	1,280.8	1,068.0	212.83	6.018
22,325.0	8,971.7	21,609.3	7,965.9	104.9	103.5	-38.26	-13,209.9	-103.8	1,280.8	1,067.6	213.21	6.007
22,400.0	8,971.7	21,684.3	7,965.9	105.5	104.1	-38.26	-13,284.9	-104.3	1,280.8	1,066.5	214.37	5.975
22,420.0	8,971.7	21,704.3	7,965.9	105.7	104.2	-38.26	-13,304.9	-104.5	1,280.8	1,066.2	214.67	5.966
22,500.0	8,971.8	21,784.3	7,966.0	106.3	104.8	-38.26	-13,384.9	-105.1	1,280.9	1,065.0	215.91	5.932
22,515.0	8,971.8	21,799.3	7,966.0	106.4	104.9	-38.26	-13,399.9	-105.3	1,280.9	1,064.7	216.14	5.926
22,600.0	8,971.8	21,884.3	7,966.0	107.0	105.6	-38.26	-13,484.9	-105.9	1,280.9	1,063.4	217.45	5.891
22,610.0	8,971.9	21,894.3	7,966.0	107.1	105.7	-38.26	-13,494.9	-106.0	1,280.9	1,063.3	217.60	5.886
22,700.0	8,971.9	21,984.3	7,966.1	107.7	106.4	-38.26	-13,584.9	-106.7	1,280.9	1,061.9	218.99	5.849
22,705.0	8,971.9	21,989.3	7,966.1	107.8	106.4	-38.26	-13,589.9	-106.8	1,280.9	1,061.9	219.06	5.847
22,800.0	8,972.0	22,084.3	7,966.1	108.5	107.1	-38.26	-13,684.9	-107.5	1,281.0	1,060.4	220.53	5.809
22,895.0	8,972.0	22,179.3	7,966.2	109.2	107.8	-38.26	-13,779.9	-108.3	1,281.0	1,059.0	221.99	5.770
22,900.0	8,972.0	22,184.3	7,966.2	109.2	107.9	-38.26	-13,784.9	-108.3	1,281.0	1,058.9	222.07	5.768
22,990.0	8,972.1	22,274.3	7,966.2	109.9	108.6	-38.27	-13,874.9	-109.0	1,281.0	1,057.6	223.45	5.733
23,000.0	8,972.1	22,284.3	7,966.2	110.0	108.6	-38.27	-13,884.9	-109.1	1,281.0	1,057.4	223.61	5.729
23,085.0	8,972.2	22,369.3	7,966.3	110.6	109.3	-38.27	-13,969.9	-109.8	1,281.0	1,056.1	224.92	5.696
23,100.0	8,972.2	22,384.3	7,966.3	110.7	109.4	-38.27	-13,984.9	-109.9	1,281.0	1,055.9	225.15	5.690
23,180.0	8,972.2	22,464.3	7,966.3	111.3	110.0	-38.27	-14,064.9	-110.5	1,281.1	1,054.7	226.38	5.659
23,200.0	8,972.2	22,484.3	7,966.3	111.5	110.2	-38.27	-14,084.8	-110.7	1,281.1	1,054.4	226.69	5.651
23,275.0	8,972.3	22,559.3	7,966.4	112.0	110.7	-38.27	-14,159.8	-111.3	1,281.1	1,053.3	227.84	5.623
23,300.0	8,972.3	22,584.3	7,966.4	112.2	110.9	-38.27	-14,184.8	-111.5	1,281.1	1,052.9	228.23	5.613
23,370.0	8,972.4	22,654.3	7,966.4	112.8	111.4	-38.27	-14,254.8	-112.1	1,281.1	1,051.8	229.31	5.587
23,400.0	8,972.4	22,684.3	7,966.4	113.0	111.7	-38.27	-14,284.8	-112.3	1,281.1	1,051.4	229.77	5.576
23,465.0	8,972.4	22,749.3	7,966.5	113.5	112.2	-38.27	-14,349.8	-112.8	1,281.2	1,050.4	230.77	5.552
23,500.0	8,972.4	22,784.3	7,966.5	113.7	112.4	-38.27	-14,384.8	-113.1	1,281.2	1,049.9	231.31	5.539
23,560.0	8,972.5	22,844.3	7,966.5	114.2	112.9	-38.27	-14,444.8	-113.6	1,281.2	1,049.0	232.24	5.517
23,600.0	8,972.5	22,884.3	7,966.5	114.5	113.2	-38.27	-14,484.8	-113.9	1,281.2	1,048.4	232.85	5.502
23,655.0	8,972.6	22,939.3	7,966.6	114.9	113.6	-38.27	-14,539.8	-114.3	1,281.2	1,047.5	233.70	5.482
23,700.0	8,972.6	22,984.3	7,966.6	115.2	114.0	-38.27	-14,584.8	-114.7	1,281.2	1,046.8	234.40	5.466
23,750.0	8,972.6	23,034.3	7,966.6	115.6	114.3	-38.27	-14,634.8	-115.1	1,281.3	1,046.1	235.17	5.448
23,800.0	8,972.6	23,084.3	7,966.6	116.0	114.7	-38.27	-14,684.8	-115.5	1,281.3	1,045.3	235.94	5.431
23,845.0	8,972.7	23,129.3	7,966.7	116.3	115.1	-38.27	-14,729.8	-115.8	1,281.3	1,044.7	236.63	5.415
23,900.0	8,972.7	23,184.3	7,966.7	116.7	115.5	-38.27	-14,784.8	-116.3	1,281.3	1,043.8	237.48	5.395
23,940.0	8,972.7	23,224.3	7,966.7	117.0	115.8	-38.27	-14,824.8	-116.6	1,281.3	1,043.2	238.10	5.381
24,000.0	8,972.8	23,284.3	7,966.7	117.5	116.2	-38.27	-14,884.8	-117.1	1,281.3	1,042.3	239.02	5.361
24,035.0	8,972.8	23,319.3	7,966.8	117.7	116.5	-38.27	-14,919.8	-117.3	1,281.3	1,041.8	239.56	5.349
24,100.0	8,972.9	23,384.3	7,966.8	118.2	117.0	-38.27	-14,984.8	-117.9	1,281.4	1,040.8	240.57	5.326
24,130.0	8,972.9	23,414.3	7,966.8	118.4	117.2	-38.27	-15,014.8	-118.1	1,281.4	1,040.3	241.03	5.316
24,193.6	8,972.9	23,477.9	7,966.8	118.9	117.7	-38.27	-15,078.4	-118.6	1,281.4	1,039.4	242.01	5.295
24,200.0	8,972.9	23,484.3	7,966.8	119.0	117.8	-38.27	-15,084.8	-118.7	1,281.4	1,039.3	242.11	5.293
24,225.0	8,972.9	23,509.3	7,966.9	119.2	117.9	-38.27	-15,109.8	-118.9	1,281.4	1,038.9	242.49	5.284
24,300.0	8,973.0	23,584.3	7,966.9	119.7	118.5	-38.27	-15,184.8	-119.4	1,281.4	1,037.8	243.65	5.259
24,320.0	8,973.0	23,604.3	7,966.9	119.9	118.7	-38.27	-15,204.8	-119.6	1,281.4	1,037.5	243.96	5.253
24,323.6	8,973.0	23,607.9	7,966.9	119.9	118.7	-38.27	-15,208.4	-119.6	1,281.4	1,037.4	244.02	5.251 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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference				0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS				Rule Assigned:				Offset Well Error: 3.0 usft		
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	0.0	0.0	3.0	3.0	88.98	1.6	90.0	90.0					
95.0	95.0	95.0	95.0	3.0	3.0	88.98	1.6	90.0	90.0	84.0	6.04	14.913		
100.0	100.0	100.0	100.0	3.0	3.0	88.98	1.6	90.0	90.0	84.0	6.04	14.901		
190.0	190.0	190.0	190.0	3.1	3.1	88.98	1.6	90.0	90.0	83.8	6.25	14.397		
200.0	200.0	200.0	200.0	3.1	3.1	88.98	1.6	90.0	90.0	83.7	6.29	14.319		
285.0	285.0	285.0	285.0	3.3	3.3	88.98	1.6	90.0	90.0	83.5	6.48	13.885		
300.0	300.0	300.0	300.0	3.3	3.3	88.98	1.6	90.0	90.0	83.5	6.52	13.801		
380.0	380.0	380.0	380.0	3.4	3.4	88.98	1.6	90.0	90.0	83.3	6.70	13.431		
400.0	400.0	400.0	400.0	3.4	3.4	88.98	1.6	90.0	90.0	83.3	6.75	13.335		
475.0	475.0	475.0	475.0	3.5	3.5	88.98	1.6	90.0	90.0	83.1	6.91	13.020		
500.0	500.0	500.0	500.0	3.5	3.5	88.98	1.6	90.0	90.0	83.0	6.97	12.913		
570.0	570.0	570.0	570.0	3.6	3.6	88.98	1.6	90.0	90.0	82.9	7.12	12.645		
600.0	600.0	600.0	600.0	3.6	3.6	88.98	1.6	90.0	90.0	82.8	7.18	12.529		
665.0	665.0	665.0	665.0	3.7	3.7	88.98	1.6	90.0	90.0	82.7	7.32	12.300		
700.0	700.0	700.0	700.0	3.8	3.8	88.98	1.6	90.0	90.0	82.6	7.39	12.177		
760.0	760.0	760.0	760.0	3.8	3.8	88.98	1.6	90.0	90.0	82.5	7.51	11.983		
800.0	800.0	800.0	800.0	3.9	3.9	88.98	1.6	90.0	90.0	82.4	7.59	11.854		
855.0	855.0	855.0	855.0	4.0	4.0	88.98	1.6	90.0	90.0	82.3	7.70	11.689		
900.0	900.0	900.0	900.0	4.0	4.0	88.98	1.6	90.0	90.0	82.2	7.79	11.554		
950.0	950.0	950.0	950.0	4.1	4.1	88.98	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	88.98	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	88.98	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	88.98	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	88.98	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	88.98	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	88.98	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	88.98	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	88.98	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	88.98	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	88.98	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	88.98	1.6	90.0	90.0	81.1	8.88	10.137 CC, ES		
1,520.0	1,520.0	1,519.5	1,519.5	4.7	4.7	157.35	1.6	90.1	90.1	81.2	8.95	10.076 SF		
1,600.0	1,600.0	1,597.3	1,597.3	4.8	4.9	157.19	2.5	91.4	93.1	83.8	9.21	10.101		
1,615.0	1,615.0	1,611.9	1,611.9	4.9	4.9	157.14	2.8	91.8	94.0	84.8	9.28	10.129		
1,700.0	1,699.8	1,694.1	1,694.0	5.0	5.1	156.75	5.2	95.5	102.2	92.5	9.71	10.528		
1,710.0	1,709.8	1,703.7	1,703.6	5.1	5.1	156.70	5.6	96.0	103.4	93.7	9.76	10.601		
1,800.0	1,799.5	1,789.8	1,789.3	5.3	5.3	156.16	9.7	102.2	117.3	107.1	10.21	11.488		
1,805.0	1,804.4	1,794.6	1,794.1	5.3	5.3	156.12	9.9	102.6	118.2	108.0	10.24	11.549		
1,900.0	1,898.7	1,884.0	1,882.8	5.6	5.6	155.51	15.7	111.5	138.4	127.7	10.73	12.895		
1,995.0	1,992.5	1,971.5	1,969.4	5.9	5.9	154.92	22.9	122.3	163.8	152.6	11.24	14.571		
2,000.0	1,997.5	1,976.1	1,973.9	5.9	5.9	154.89	23.3	123.0	165.3	154.0	11.27	14.668		
2,090.0	2,085.8	2,056.9	2,053.4	6.2	6.1	154.36	31.3	135.1	194.3	182.5	11.76	16.522		
2,100.0	2,095.6	2,065.7	2,062.1	6.2	6.2	154.31	32.2	136.5	197.8	186.0	11.81	16.742		
2,185.0	2,178.5	2,139.7	2,134.4	6.6	6.4	153.84	40.7	149.4	229.7	217.4	12.28	18.699		
2,200.1	2,193.2	2,152.7	2,147.1	6.6	6.5	153.76	42.3	151.8	235.8	223.4	12.37	19.065		
2,280.0	2,270.7	2,221.8	2,214.2	6.9	6.7	153.58	51.3	165.5	268.9	256.1	12.78	21.047		
2,300.0	2,290.1	2,240.0	2,231.9	6.9	6.8	153.52	53.7	169.2	277.3	264.4	12.88	21.523		
2,375.0	2,362.9	2,308.1	2,297.9	7.2	7.0	153.35	62.7	182.9	308.7	295.4	13.29	23.224		
2,400.0	2,387.1	2,330.8	2,320.0	7.2	7.1	153.30	65.8	187.5	319.2	305.8	13.43	23.763		
2,470.0	2,455.0	2,394.3	2,381.6	7.5	7.3	153.17	74.2	200.4	348.5	334.7	13.83	25.193		
2,500.0	2,484.1	2,421.6	2,408.0	7.6	7.4	153.13	77.8	205.9	361.1	347.1	14.01	25.775		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
2,565.0	2,547.2	2,480.6	2,465.3	7.8	7.6	153.03	85.7	217.8	388.4	374.0	14.40	26.969	
2,600.0	2,581.2	2,512.4	2,496.1	8.0	7.7	152.99	89.9	224.2	403.0	388.4	14.61	27.581	
2,660.0	2,639.4	2,566.8	2,549.0	8.2	7.9	152.92	97.1	235.2	428.2	413.2	14.99	28.571	
2,700.0	2,678.2	2,603.1	2,584.2	8.3	8.0	152.88	102.0	242.6	444.9	429.7	15.24	29.202	
2,755.0	2,731.6	2,653.1	2,632.7	8.5	8.2	152.83	108.6	252.6	468.0	452.4	15.59	30.018	
2,800.0	2,775.2	2,693.9	2,672.3	8.7	8.3	152.79	114.0	260.9	486.9	471.0	15.88	30.657	
2,850.0	2,823.7	2,739.3	2,716.4	8.9	8.5	152.75	120.1	270.1	507.8	491.6	16.21	31.326	
2,900.0	2,872.3	2,784.7	2,760.4	9.1	8.7	152.71	126.1	279.2	528.8	512.2	16.54	31.965	
2,945.0	2,915.9	2,825.6	2,800.1	9.3	8.8	152.68	131.5	287.5	547.6	530.8	16.85	32.509	
3,000.0	2,969.3	2,875.5	2,848.5	9.5	9.0	152.64	138.2	297.6	570.7	553.5	17.22	33.144	
3,040.0	3,008.1	2,911.8	2,883.7	9.7	9.2	152.62	143.0	304.9	587.5	570.0	17.49	33.582	
3,100.0	3,066.3	2,966.3	2,936.6	9.9	9.4	152.59	150.2	315.9	612.6	594.7	17.91	34.208	
3,135.0	3,100.3	2,998.1	2,967.4	10.1	9.5	152.57	154.4	322.3	627.3	609.1	18.15	34.555	
3,200.0	3,163.3	3,057.1	3,024.7	10.4	9.8	152.54	162.3	334.3	654.5	635.9	18.61	35.170	
3,230.0	3,192.4	3,084.3	3,051.1	10.5	9.9	152.52	165.9	339.8	667.1	648.3	18.82	35.440	
3,300.0	3,260.4	3,147.9	3,112.8	10.8	10.2	152.49	174.4	352.6	696.5	677.1	19.32	36.043	
3,325.0	3,284.6	3,170.6	3,134.8	10.9	10.3	152.48	177.4	357.2	706.9	687.4	19.50	36.248	
3,400.0	3,357.4	3,238.7	3,200.9	11.2	10.5	152.46	186.4	371.0	738.4	718.3	20.05	36.836	
3,420.0	3,376.8	3,256.8	3,218.5	11.3	10.6	152.45	188.8	374.6	746.8	726.6	20.19	36.985	
3,500.0	3,454.4	3,329.4	3,289.0	11.6	10.9	152.42	198.5	389.3	780.3	759.5	20.78	37.558	
3,515.0	3,469.0	3,343.1	3,302.2	11.7	11.0	152.42	200.3	392.1	786.6	765.7	20.89	37.660	
3,600.0	3,551.5	3,420.2	3,377.1	12.1	11.3	152.39	210.6	407.6	822.2	800.7	21.51	38.218	
3,610.0	3,561.2	3,429.3	3,385.9	12.1	11.4	152.39	211.8	409.5	826.4	804.8	21.59	38.280	
3,700.0	3,648.5	3,511.0	3,465.2	12.5	11.7	152.36	222.6	426.0	864.1	841.9	22.26	38.821	
3,705.0	3,653.3	3,515.6	3,469.6	12.6	11.7	152.36	223.2	426.9	866.2	843.9	22.30	38.850	
3,800.0	3,745.5	3,601.8	3,553.3	13.0	12.1	152.34	234.7	444.3	906.1	883.1	23.01	39.375	
3,895.0	3,837.7	3,688.1	3,636.9	13.4	12.5	152.31	246.2	461.8	945.9	922.2	23.73	39.859	
3,900.0	3,842.5	3,692.6	3,641.3	13.4	12.5	152.31	246.8	462.7	948.0	924.2	23.77	39.884	
3,990.0	3,929.9	3,774.3	3,720.6	13.8	12.9	152.29	257.6	479.2	985.7	961.3	24.45	40.307	
4,000.0	3,939.6	3,783.4	3,729.4	13.9	12.9	152.29	258.8	481.0	989.9	965.4	24.53	40.353	
4,085.0	4,022.0	3,860.6	3,804.3	14.3	13.3	152.28	269.1	496.6	1,025.5	1,000.4	25.18	40.723	
4,100.0	4,036.6	3,874.2	3,817.5	14.3	13.3	152.27	270.9	499.4	1,031.8	1,006.5	25.30	40.786	
4,180.0	4,114.2	3,946.8	3,888.0	14.7	13.7	152.26	280.6	514.0	1,065.4	1,039.4	25.92	41.109	
4,200.0	4,133.6	3,965.0	3,905.6	14.8	13.7	152.26	283.0	517.7	1,073.7	1,047.7	26.07	41.187	
4,275.0	4,206.4	4,040.2	3,978.7	15.1	14.1	152.24	292.9	532.9	1,105.1	1,078.4	26.70	41.385	
4,300.0	4,230.7	4,074.8	4,012.3	15.3	14.2	152.25	297.3	539.5	1,115.4	1,088.4	27.00	41.314	
4,370.0	4,298.6	4,173.4	4,108.8	15.6	14.7	152.33	308.4	556.4	1,142.6	1,114.8	27.83	41.060	
4,400.0	4,327.7	4,216.3	4,151.0	15.7	14.9	152.38	312.7	563.0	1,153.7	1,125.6	28.19	40.933	
4,465.0	4,390.7	4,310.9	4,244.4	16.0	15.3	152.56	321.0	575.5	1,176.5	1,147.6	28.94	40.660	
4,500.0	4,424.7	4,362.6	4,295.7	16.2	15.5	152.69	324.7	581.2	1,188.0	1,158.7	29.33	40.508	
4,560.0	4,482.9	4,452.4	4,384.9	16.5	15.9	152.96	330.1	589.4	1,206.6	1,176.6	29.98	40.243	
4,600.0	4,521.7	4,513.1	4,445.4	16.6	16.2	153.16	332.8	593.5	1,218.0	1,187.6	30.41	40.060	
4,634.9	4,555.6	4,566.5	4,498.7	16.8	16.4	153.37	334.7	596.3	1,227.5	1,196.8	30.74	39.934	
4,655.0	4,575.1	4,597.4	4,529.6	16.9	16.5	153.52	335.5	597.5	1,232.6	1,201.7	30.93	39.850	
4,700.0	4,618.9	4,667.2	4,599.3	17.1	16.7	153.86	336.6	599.3	1,243.3	1,212.0	31.32	39.698	
4,750.0	4,667.6	4,735.4	4,667.6	17.3	16.8	154.22	336.9	599.7	1,253.8	1,222.2	31.65	39.619	
4,800.0	4,716.3	4,784.2	4,716.3	17.6	16.8	154.48	336.9	599.7	1,263.7	1,231.8	31.88	39.643	
4,845.0	4,760.3	4,828.2	4,760.3	17.8	16.9	154.70	336.9	599.7	1,272.3	1,240.2	32.09	39.653	
4,900.0	4,814.2	4,882.1	4,814.2	18.0	16.9	154.95	336.9	599.7	1,282.3	1,250.0	32.34	39.649	
4,940.0	4,853.5	4,921.3	4,853.5	18.2	16.9	155.13	336.9	599.7	1,289.4	1,256.9	32.53	39.640	
5,000.0	4,912.4	4,980.3	4,912.4	18.5	16.9	155.37	336.9	599.7	1,299.5	1,266.7	32.81	39.612	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:	FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1										Offset Site Error:	0.0 usft
Survey Program:	0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS										Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
5,035.0	4,946.9	5,014.8	4,946.9	18.6	16.9	155.51	336.9	599.7	1,305.1	1,272.2	32.97	39.591
5,100.0	5,010.9	5,078.8	5,010.9	18.9	17.0	155.75	336.9	599.7	1,315.1	1,281.8	33.26	39.537
5,130.0	5,040.6	5,108.5	5,040.6	19.0	17.0	155.85	336.9	599.7	1,319.5	1,286.1	33.40	39.509

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance								Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	88.95	1.1	60.0	60.0					
95.0	95.0	94.9	94.9	3.0	3.0	88.95	1.1	60.0	60.0	54.0	6.04	9.942		
100.0	100.0	99.9	99.9	3.0	3.0	88.95	1.1	60.0	60.0	54.0	6.04	9.934		
190.0	190.0	189.9	189.9	3.1	3.1	88.95	1.1	60.0	60.0	53.8	6.25	9.598		
200.0	200.0	199.9	199.9	3.1	3.1	88.95	1.1	60.0	60.0	53.7	6.29	9.547		
285.0	285.0	284.9	284.9	3.3	3.3	88.95	1.1	60.0	60.0	53.5	6.48	9.257		
300.0	300.0	299.9	299.9	3.3	3.3	88.95	1.1	60.0	60.0	53.5	6.52	9.201		
380.0	380.0	379.9	379.9	3.4	3.4	88.95	1.1	60.0	60.0	53.3	6.70	8.954		
400.0	400.0	399.9	399.9	3.4	3.4	88.95	1.1	60.0	60.0	53.3	6.75	8.890		
475.0	475.0	474.9	474.9	3.5	3.5	88.95	1.1	60.0	60.0	53.1	6.91	8.680		
500.0	500.0	499.9	499.9	3.5	3.5	88.95	1.1	60.0	60.0	53.0	6.97	8.609		
570.0	570.0	569.9	569.9	3.6	3.6	88.95	1.1	60.0	60.0	52.9	7.12	8.430		
600.0	600.0	599.9	599.9	3.6	3.6	88.95	1.1	60.0	60.0	52.8	7.18	8.353		
665.0	665.0	664.9	664.9	3.7	3.7	88.95	1.1	60.0	60.0	52.7	7.32	8.200		
700.0	700.0	699.9	699.9	3.8	3.8	88.95	1.1	60.0	60.0	52.6	7.39	8.118		
760.0	760.0	759.9	759.9	3.8	3.8	88.95	1.1	60.0	60.0	52.5	7.51	7.989		
800.0	800.0	799.9	799.9	3.9	3.9	88.95	1.1	60.0	60.0	52.4	7.59	7.903		
855.0	855.0	854.9	854.9	4.0	4.0	88.95	1.1	60.0	60.0	52.3	7.70	7.793		
900.0	900.0	899.9	899.9	4.0	4.0	88.95	1.1	60.0	60.0	52.2	7.79	7.703		
950.0	950.0	949.9	949.9	4.1	4.1	88.95	1.1	60.0	60.0	52.1	7.89	7.610		
1,000.0	1,000.0	999.9	999.9	4.1	4.1	88.95	1.1	60.0	60.0	52.0	7.98	7.518		
1,045.0	1,045.0	1,044.9	1,044.9	4.2	4.2	88.95	1.1	60.0	60.0	51.9	8.07	7.440		
1,100.0	1,100.0	1,099.9	1,099.9	4.2	4.2	88.95	1.1	60.0	60.0	51.8	8.17	7.346		
1,140.0	1,140.0	1,139.9	1,139.9	4.3	4.3	88.95	1.1	60.0	60.0	51.8	8.24	7.281		
1,200.0	1,200.0	1,199.9	1,199.9	4.4	4.4	88.95	1.1	60.0	60.0	51.7	8.35	7.185		
1,235.0	1,235.0	1,234.9	1,234.9	4.4	4.4	88.95	1.1	60.0	60.0	51.6	8.41	7.131		
1,300.0	1,300.0	1,299.9	1,299.9	4.5	4.5	88.95	1.1	60.0	60.0	51.5	8.53	7.034		
1,330.0	1,330.0	1,329.9	1,329.9	4.5	4.5	88.95	1.1	60.0	60.0	51.4	8.58	6.991		
1,400.0	1,400.0	1,399.9	1,399.9	4.6	4.6	88.95	1.1	60.0	60.0	51.3	8.71	6.892		
1,425.0	1,425.0	1,424.9	1,424.9	4.6	4.6	88.95	1.1	60.0	60.0	51.3	8.75	6.858		
1,500.0	1,500.0	1,499.9	1,499.9	4.7	4.7	88.95	1.1	60.0	60.0	51.1	8.88	6.758 CC, ES		
1,520.0	1,520.0	1,519.7	1,519.7	4.7	4.8	157.29	1.2	60.0	60.1	51.2	8.93	6.727		
1,600.0	1,600.0	1,599.1	1,599.0	4.8	4.9	156.46	2.7	60.6	62.3	53.1	9.15	6.803		
1,615.0	1,615.0	1,613.9	1,613.9	4.9	4.9	156.19	3.2	60.8	63.0	53.8	9.22	6.835		
1,700.0	1,699.8	1,697.9	1,697.7	5.0	5.2	154.20	7.5	62.4	69.1	59.5	9.59	7.206		
1,710.0	1,709.8	1,707.7	1,707.5	5.1	5.2	153.92	8.1	62.7	70.1	60.4	9.64	7.271		
1,800.0	1,799.5	1,796.0	1,795.5	5.3	5.4	151.27	15.4	65.4	80.7	70.7	10.04	8.037		
1,805.0	1,804.4	1,800.9	1,800.3	5.3	5.5	151.12	15.8	65.6	81.4	71.3	10.06	8.089		
1,900.0	1,898.7	1,893.8	1,892.6	5.6	5.6	148.49	26.0	69.5	96.9	86.5	10.41	9.314		
1,995.0	1,992.5	1,987.0	1,985.1	5.9	5.8	147.17	36.6	73.6	115.4	104.5	10.84	10.646		
2,000.0	1,997.5	1,991.9	1,989.9	5.9	5.8	147.13	37.2	73.8	116.4	105.6	10.86	10.719		
2,090.0	2,085.8	2,079.6	2,077.0	6.2	6.0	146.88	47.2	77.6	136.4	125.1	11.29	12.086		
2,100.0	2,095.6	2,089.3	2,086.7	6.2	6.1	146.89	48.3	78.0	138.8	127.5	11.34	12.244		
2,185.0	2,178.5	2,171.6	2,168.3	6.6	6.3	147.20	57.7	81.6	160.1	148.3	11.76	13.614		
2,200.1	2,193.2	2,186.2	2,182.8	6.6	6.3	147.29	59.3	82.2	164.1	152.2	11.83	13.865		
2,280.0	2,270.7	2,263.1	2,259.2	6.9	6.5	147.94	68.1	85.6	185.4	173.2	12.20	15.194		
2,300.0	2,290.1	2,282.4	2,278.3	6.9	6.6	148.08	70.3	86.4	190.7	178.4	12.29	15.514		
2,375.0	2,362.9	2,354.7	2,350.0	7.2	6.8	148.55	78.5	89.5	210.8	198.1	12.65	16.660		
2,400.0	2,387.1	2,378.8	2,373.9	7.2	6.9	148.68	81.3	90.6	217.4	204.7	12.77	17.027		
2,470.0	2,455.0	2,446.2	2,440.9	7.5	7.1	149.02	88.9	93.5	236.2	223.0	13.12	18.005		
2,500.0	2,484.1	2,475.1	2,469.6	7.6	7.2	149.15	92.2	94.8	244.2	230.9	13.26	18.408		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,565.0	2,547.2	2,537.7	2,531.7	7.8	7.4	149.40	99.4	97.5	261.6	248.0	13.59	19.240		
2,600.0	2,581.2	2,571.4	2,565.2	8.0	7.5	149.53	103.2	98.9	270.9	257.1	13.77	19.670		
2,660.0	2,639.4	2,629.2	2,622.6	8.2	7.7	149.72	109.8	101.4	287.0	272.9	14.09	20.373		
2,700.0	2,678.2	2,667.8	2,660.8	8.3	7.8	149.83	114.2	103.1	297.7	283.4	14.30	20.823		
2,755.0	2,731.6	2,720.8	2,713.4	8.5	8.0	149.98	120.2	105.4	312.4	297.8	14.59	21.414		
2,800.0	2,775.2	2,764.1	2,756.4	8.7	8.1	150.09	125.1	107.3	324.4	309.6	14.83	21.878		
2,850.0	2,823.7	2,812.3	2,804.3	8.9	8.3	150.20	130.6	109.4	337.8	322.7	15.10	22.371		
2,900.0	2,872.3	2,860.5	2,852.1	9.1	8.5	150.31	136.1	111.5	351.2	335.8	15.37	22.845		
2,945.0	2,915.9	2,903.8	2,895.1	9.3	8.6	150.40	141.0	113.4	363.2	347.6	15.62	23.253		
3,000.0	2,969.3	2,956.8	2,947.7	9.5	8.8	150.50	147.1	115.7	378.0	362.0	15.93	23.733		
3,040.0	3,008.1	2,995.4	2,985.9	9.7	8.9	150.56	151.5	117.3	388.7	372.5	16.15	24.067		
3,100.0	3,066.3	3,053.2	3,043.3	9.9	9.1	150.66	158.0	119.9	404.7	388.3	16.49	24.549		
3,135.0	3,100.3	3,086.9	3,076.8	10.1	9.3	150.71	161.9	121.3	414.1	397.4	16.69	24.818		
3,200.0	3,163.3	3,149.5	3,138.9	10.4	9.5	150.80	169.0	124.0	431.5	414.5	17.06	25.301		
3,230.0	3,192.4	3,178.4	3,167.6	10.5	9.6	150.84	172.3	125.3	439.5	422.3	17.23	25.514		
3,300.0	3,260.4	3,245.8	3,234.6	10.8	9.8	150.93	180.0	128.2	458.3	440.7	17.63	25.994		
3,325.0	3,284.6	3,269.9	3,258.5	10.9	9.9	150.96	182.7	129.3	465.0	447.2	17.78	26.159		
3,400.0	3,357.4	3,342.2	3,330.2	11.2	10.2	151.04	190.9	132.4	485.1	466.9	18.21	26.636		
3,420.0	3,376.8	3,361.5	3,349.3	11.3	10.3	151.06	193.1	133.2	490.4	472.1	18.33	26.758		
3,500.0	3,454.4	3,438.5	3,425.8	11.6	10.6	151.14	201.9	136.6	511.8	493.1	18.80	27.231		
3,515.0	3,469.0	3,453.0	3,440.2	11.7	10.6	151.15	203.6	137.2	515.9	497.0	18.89	27.316		
3,600.0	3,551.5	3,534.9	3,521.5	12.1	10.9	151.23	212.9	140.8	538.6	519.2	19.39	27.783		
3,610.0	3,561.2	3,544.5	3,531.0	12.1	11.0	151.24	214.0	141.2	541.3	521.9	19.45	27.835		
3,700.0	3,648.5	3,631.2	3,617.1	12.5	11.3	151.31	223.9	145.0	565.4	545.4	19.98	28.296		
3,705.0	3,653.3	3,636.0	3,621.9	12.6	11.3	151.31	224.4	145.2	566.8	546.7	20.01	28.321		
3,800.0	3,745.5	3,727.6	3,712.7	13.0	11.7	151.38	234.8	149.1	592.2	571.6	20.58	28.774		
3,895.0	3,837.7	3,819.1	3,803.5	13.4	12.0	151.45	245.2	153.1	617.6	596.5	21.15	29.199		
3,900.0	3,842.5	3,823.9	3,808.3	13.4	12.0	151.45	245.8	153.3	619.0	597.8	21.18	29.221		
3,990.0	3,929.9	3,910.6	3,894.4	13.8	12.4	151.51	255.7	157.1	643.1	621.4	21.73	29.598		
4,000.0	3,939.6	3,920.3	3,904.0	13.9	12.4	151.51	256.8	157.5	645.8	624.0	21.79	29.638		
4,085.0	4,022.0	4,002.1	3,985.2	14.3	12.7	151.56	266.1	161.1	668.5	646.2	22.31	29.972		
4,100.0	4,036.6	4,016.6	3,999.6	14.3	12.8	151.57	267.7	161.7	672.6	650.2	22.40	30.029		
4,180.0	4,114.2	4,093.7	4,076.1	14.7	13.1	151.61	276.5	165.0	694.0	671.1	22.89	30.325		
4,200.0	4,133.6	4,112.9	4,095.2	14.8	13.2	151.62	278.7	165.9	699.3	676.3	23.01	30.397		
4,275.0	4,206.4	4,185.2	4,166.9	15.1	13.4	151.66	286.9	169.0	719.4	696.0	23.47	30.659		
4,300.0	4,230.7	4,210.0	4,191.5	15.3	13.5	151.67	289.7	170.1	726.1	702.5	23.62	30.740		
4,370.0	4,298.6	4,281.6	4,262.7	15.6	13.8	151.75	297.3	173.0	744.6	720.5	24.07	30.931		
4,400.0	4,327.7	4,312.3	4,293.2	15.7	13.9	151.80	300.3	174.1	752.4	728.2	24.27	31.007		
4,465.0	4,390.7	4,379.1	4,359.7	16.0	14.2	151.95	306.4	176.4	769.1	744.4	24.68	31.160		
4,500.0	4,424.7	4,415.1	4,395.5	16.2	14.3	152.05	309.3	177.5	778.0	753.1	24.91	31.236		
4,560.0	4,482.9	4,476.9	4,457.2	16.5	14.5	152.24	313.8	179.3	793.0	767.7	25.29	31.359		
4,600.0	4,521.7	4,518.1	4,498.3	16.6	14.7	152.40	316.5	180.3	802.8	777.2	25.54	31.435		
4,634.9	4,555.6	4,554.2	4,534.3	16.8	14.8	152.54	318.7	181.1	811.3	785.5	25.74	31.512		
4,655.0	4,575.1	4,574.9	4,555.0	16.9	14.9	152.65	319.8	181.6	816.1	790.2	25.87	31.551		
4,700.0	4,618.9	4,621.5	4,601.5	17.1	15.0	152.90	322.1	182.4	826.5	800.4	26.13	31.626		
4,750.0	4,667.6	4,673.4	4,653.4	17.3	15.2	153.19	324.2	183.2	837.6	811.2	26.44	31.683		
4,800.0	4,716.3	4,725.5	4,705.4	17.6	15.4	153.48	325.9	183.9	848.1	821.4	26.74	31.722		
4,845.0	4,760.3	4,772.4	4,752.3	17.8	15.5	153.74	327.0	184.3	857.1	830.1	27.00	31.745		
4,900.0	4,814.2	4,829.9	4,809.8	18.0	15.6	154.08	327.9	184.7	867.5	840.2	27.31	31.765		
4,940.0	4,853.5	4,871.8	4,851.7	18.2	15.7	154.32	328.2	184.8	874.6	847.1	27.53	31.775		
5,000.0	4,912.4	4,932.4	4,912.3	18.5	15.8	154.68	328.3	184.8	884.7	856.9	27.83	31.790		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,035.0	4,946.9	4,966.9	4,946.8	18.6	15.8	154.87	328.3	184.8	890.3	862.3	28.00	31.800	
5,100.0	5,010.9	5,031.0	5,010.8	18.9	15.8	155.21	328.3	184.8	900.2	871.9	28.31	31.799	
5,130.0	5,040.6	5,060.6	5,040.5	19.0	15.8	155.36	328.3	184.8	904.6	876.2	28.45	31.793	
5,200.0	5,109.8	5,129.8	5,109.7	19.3	15.9	155.67	328.3	184.8	914.3	885.5	28.79	31.759	
5,225.0	5,134.5	5,154.5	5,134.4	19.4	15.9	155.78	328.3	184.8	917.5	888.6	28.90	31.744	
5,300.0	5,208.8	5,228.8	5,208.7	19.8	15.9	156.07	328.3	184.8	926.8	897.5	29.26	31.676	
5,320.0	5,228.7	5,248.7	5,228.6	19.8	15.9	156.14	328.3	184.8	929.1	899.7	29.35	31.656	
5,400.0	5,308.1	5,328.1	5,308.0	20.2	16.0	156.41	328.3	184.8	937.7	908.0	29.72	31.553	
5,415.0	5,323.0	5,343.0	5,322.9	20.2	16.0	156.46	328.3	184.8	939.2	909.4	29.79	31.532	
5,500.0	5,407.6	5,427.6	5,407.5	20.6	16.1	156.70	328.3	184.8	947.0	916.9	30.17	31.392	
5,510.0	5,417.5	5,437.5	5,417.4	20.6	16.1	156.72	328.3	184.8	947.9	917.7	30.21	31.375	
5,600.0	5,507.2	5,527.2	5,507.1	20.9	16.1	156.93	328.3	184.8	954.8	924.2	30.61	31.198	
5,605.0	5,512.2	5,532.2	5,512.1	21.0	16.1	156.94	328.3	184.8	955.2	924.5	30.63	31.188	
5,700.0	5,607.0	5,627.0	5,606.9	21.3	16.2	157.11	328.3	184.8	961.0	930.0	31.03	30.975	
5,795.0	5,701.9	5,721.9	5,701.8	21.6	16.2	157.23	328.3	184.8	965.4	934.0	31.40	30.741	
5,800.0	5,706.9	5,726.9	5,706.8	21.6	16.2	157.24	328.3	184.8	965.6	934.2	31.42	30.728	
5,890.0	5,796.8	5,816.8	5,796.7	21.9	16.3	157.32	328.3	184.8	968.4	936.6	31.76	30.492	
5,900.0	5,806.8	5,826.8	5,806.7	21.9	16.3	157.33	328.3	184.8	968.6	936.8	31.79	30.464	
5,985.0	5,891.8	5,911.8	5,891.7	22.2	16.3	157.36	328.3	184.8	969.8	937.8	32.07	30.244	
6,000.0	5,906.8	5,926.8	5,906.7	22.2	16.4	157.36	328.3	184.8	970.0	937.8	32.12	30.201	
6,035.2	5,942.0	5,962.0	5,941.9	22.2	16.4	88.99	328.3	184.8	970.1	937.9	32.18	30.144	
6,080.0	5,986.8	6,006.8	5,986.7	22.2	16.4	88.99	328.3	184.8	970.1	937.8	32.23	30.097	
6,100.0	6,006.8	6,026.8	6,006.7	22.2	16.4	88.99	328.3	184.8	970.1	937.8	32.25	30.077	
6,175.0	6,081.8	6,101.8	6,081.7	22.3	16.5	88.99	328.3	184.8	970.1	937.7	32.35	29.988	
6,200.0	6,106.8	6,126.8	6,106.7	22.3	16.5	88.99	328.3	184.8	970.1	937.7	32.38	29.959	
6,270.0	6,176.8	6,196.8	6,176.7	22.3	16.5	88.99	328.3	184.8	970.1	937.6	32.47	29.877	
6,300.0	6,206.8	6,226.8	6,206.7	22.3	16.5	88.99	328.3	184.8	970.1	937.5	32.51	29.842	
6,365.0	6,271.8	6,291.8	6,271.7	22.3	16.6	88.99	328.3	184.8	970.1	937.5	32.59	29.767	
6,400.0	6,306.8	6,326.8	6,306.7	22.4	16.6	88.99	328.3	184.8	970.1	937.4	32.63	29.726	
6,460.0	6,366.8	6,386.8	6,366.7	22.4	16.6	88.99	328.3	184.8	970.1	937.3	32.71	29.657	
6,500.0	6,406.8	6,426.8	6,406.7	22.4	16.7	88.99	328.3	184.8	970.1	937.3	32.76	29.611	
6,555.0	6,461.8	6,481.8	6,461.7	22.4	16.7	88.99	328.3	184.8	970.1	937.2	32.83	29.548	
6,600.0	6,506.8	6,526.8	6,506.7	22.4	16.7	88.99	328.3	184.8	970.1	937.2	32.89	29.496	
6,650.0	6,556.8	6,576.8	6,556.7	22.5	16.8	88.99	328.3	184.8	970.1	937.1	32.95	29.439	
6,700.0	6,606.8	6,626.8	6,606.7	22.5	16.8	88.99	328.3	184.8	970.1	937.0	33.01	29.382	
6,745.0	6,651.8	6,671.8	6,651.7	22.5	16.8	88.99	328.3	184.8	970.1	937.0	33.07	29.331	
6,800.0	6,706.8	6,726.8	6,706.7	22.5	16.9	88.99	328.3	184.8	970.1	936.9	33.14	29.269	
6,840.0	6,746.8	6,766.8	6,746.7	22.5	16.9	88.99	328.3	184.8	970.1	936.9	33.19	29.224	
6,900.0	6,806.8	6,826.8	6,806.7	22.6	16.9	88.99	328.3	184.8	970.1	936.8	33.27	29.157	
6,935.0	6,841.8	6,861.8	6,841.7	22.6	16.9	88.99	328.3	184.8	970.1	936.7	33.31	29.118	
7,000.0	6,906.8	6,926.8	6,906.7	22.6	17.0	88.99	328.3	184.8	970.1	936.7	33.40	29.045	
7,030.0	6,936.8	6,956.8	6,936.7	22.6	17.0	88.99	328.3	184.8	970.1	936.6	33.44	29.012	
7,100.0	7,006.8	7,026.8	7,006.7	22.6	17.0	88.99	328.3	184.8	970.1	936.5	33.53	28.934	
7,125.0	7,031.8	7,051.8	7,031.7	22.6	17.1	88.99	328.3	184.8	970.1	936.5	33.56	28.906	
7,200.0	7,106.8	7,126.8	7,106.7	22.7	17.1	88.99	328.3	184.8	970.1	936.4	33.65	28.824	
7,220.0	7,126.8	7,146.8	7,126.7	22.7	17.1	88.99	328.3	184.8	970.1	936.4	33.68	28.802	
7,300.0	7,206.8	7,226.8	7,206.7	22.7	17.2	88.99	328.3	184.8	970.1	936.3	33.78	28.714	
7,315.0	7,221.8	7,241.8	7,221.7	22.7	17.2	88.99	328.3	184.8	970.1	936.2	33.80	28.698	
7,400.0	7,306.8	7,326.8	7,306.7	22.8	17.2	88.99	328.3	184.8	970.1	936.1	33.91	28.605	
7,410.0	7,316.8	7,336.8	7,316.7	22.8	17.2	88.99	328.3	184.8	970.1	936.1	33.92	28.595	
7,500.0	7,406.8	7,426.8	7,406.7	22.8	17.3	88.99	328.3	184.8	970.1	936.0	34.04	28.497	

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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,505.0	7,411.8	7,431.8	7,411.7	22.8	17.3	88.99	328.3	184.8	970.1	936.0	34.05	28.492		
7,600.0	7,506.8	7,526.8	7,506.7	22.8	17.4	88.99	328.3	184.8	970.1	935.9	34.17	28.390		
7,695.0	7,601.8	7,621.8	7,601.7	22.9	17.4	88.99	328.3	184.8	970.1	935.8	34.29	28.288		
7,700.0	7,606.8	7,626.8	7,606.7	22.9	17.4	88.99	328.3	184.8	970.1	935.8	34.30	28.283		
7,790.0	7,696.8	7,716.8	7,696.7	22.9	17.5	88.99	328.3	184.8	970.1	935.6	34.41	28.187		
7,800.0	7,706.8	7,726.8	7,706.7	22.9	17.5	88.99	328.3	184.8	970.1	935.6	34.43	28.177		
7,885.0	7,791.8	7,811.8	7,791.7	23.0	17.5	88.99	328.3	184.8	970.1	935.5	34.54	28.087		
7,900.0	7,806.8	7,826.8	7,806.7	23.0	17.6	88.99	328.3	184.8	970.1	935.5	34.56	28.071		
7,980.0	7,886.8	7,906.8	7,886.7	23.0	17.6	88.99	328.3	184.8	970.1	935.4	34.66	27.987		
8,000.0	7,906.8	7,926.8	7,906.7	23.0	17.6	88.99	328.3	184.8	970.1	935.4	34.69	27.966		
8,075.0	7,981.8	8,001.8	7,981.7	23.0	17.7	88.99	328.3	184.8	970.1	935.3	34.78	27.888		
8,100.0	8,006.8	8,026.8	8,006.7	23.0	17.7	88.99	328.3	184.8	970.1	935.2	34.82	27.862		
8,170.0	8,076.8	8,096.8	8,076.7	23.1	17.7	88.99	328.3	184.8	970.1	935.1	34.91	27.789		
8,200.0	8,106.8	8,126.8	8,106.7	23.1	17.7	88.99	328.3	184.8	970.1	935.1	34.95	27.758		
8,265.0	8,171.8	8,191.8	8,171.7	23.1	17.8	88.99	328.3	184.8	970.1	935.0	35.03	27.691		
8,300.0	8,206.8	8,226.8	8,206.7	23.1	17.8	88.99	328.3	184.8	970.1	935.0	35.08	27.656		
8,360.0	8,266.8	8,286.8	8,266.7	23.2	17.9	88.99	328.3	184.8	970.1	934.9	35.15	27.594		
8,400.0	8,306.8	8,326.8	8,306.7	23.2	17.9	88.99	328.3	184.8	970.1	934.8	35.21	27.553		
8,455.0	8,361.8	8,381.8	8,361.7	23.2	17.9	88.99	328.3	184.8	970.1	934.8	35.27	27.503		
8,483.2	8,390.0	8,410.1	8,389.9	23.2	17.9	88.99	328.3	184.8	970.1	934.8	35.30	27.481		
8,500.0	8,406.8	8,426.8	8,406.7	23.2	17.9	-91.50	328.3	184.8	970.1	934.8	35.31	27.475		
8,550.0	8,456.7	8,479.1	8,458.9	23.2	18.0	-91.59	326.1	184.8	970.1	934.8	35.33	27.460		
8,600.0	8,506.0	8,531.6	8,510.9	23.2	18.0	-91.67	319.2	184.7	970.1	934.8	35.34	27.448		
8,645.0	8,549.7	8,578.9	8,557.1	23.2	18.1	-91.73	308.8	184.6	970.2	934.8	35.36	27.440		
8,650.0	8,554.5	8,584.2	8,562.2	23.2	18.1	-91.74	307.4	184.6	970.2	934.8	35.36	27.439		
8,700.0	8,601.7	8,637.0	8,612.3	23.3	18.2	-91.79	291.0	184.5	970.2	934.8	35.37	27.433		
8,740.0	8,638.3	8,679.2	8,651.2	23.3	18.2	-91.82	274.6	184.4	970.2	934.8	35.37	27.428		
8,750.0	8,647.3	8,689.8	8,660.8	23.3	18.3	-91.83	270.0	184.3	970.2	934.8	35.37	27.427		
8,800.0	8,690.9	8,742.7	8,707.1	23.3	18.3	-91.85	244.6	184.1	970.2	934.9	35.38	27.421		
8,835.0	8,720.1	8,779.7	8,738.1	23.3	18.4	-91.86	224.4	183.9	970.2	934.8	35.39	27.416		
8,850.0	8,732.3	8,795.6	8,751.0	23.3	18.4	-91.86	215.1	183.9	970.2	934.8	35.39	27.413		
8,900.0	8,771.0	8,848.5	8,791.9	23.3	18.5	-91.86	181.6	183.6	970.2	934.8	35.41	27.402		
8,930.0	8,792.9	8,880.2	8,814.9	23.4	18.5	-91.85	159.7	183.4	970.2	934.8	35.42	27.393		
8,950.0	8,806.9	8,901.4	8,829.6	23.4	18.6	-91.84	144.5	183.3	970.2	934.8	35.43	27.386		
9,000.0	8,839.5	8,954.2	8,863.6	23.4	18.6	-91.80	104.1	182.9	970.2	934.7	35.46	27.363		
9,025.0	8,854.6	8,980.6	8,879.2	23.4	18.7	-91.78	82.8	182.8	970.2	934.7	35.48	27.347		
9,050.0	8,868.8	9,007.0	8,893.8	23.4	18.7	-91.75	60.8	182.6	970.2	934.7	35.50	27.330		
9,100.0	8,894.4	9,059.6	8,919.8	23.5	18.7	-91.69	15.0	182.2	970.1	934.6	35.55	27.288		
9,120.0	8,903.6	9,080.7	8,929.0	23.5	18.8	-91.66	-3.9	182.1	970.1	934.6	35.58	27.268		
9,150.0	8,916.2	9,112.2	8,941.4	23.5	18.8	-91.61	-32.8	181.8	970.1	934.5	35.62	27.235		
9,200.0	8,933.9	9,164.6	8,958.5	23.6	18.8	-91.52	-82.3	181.4	970.1	934.4	35.70	27.170		
9,215.0	8,938.5	9,180.3	8,962.8	23.6	18.8	-91.49	-97.4	181.3	970.1	934.3	35.73	27.147		
9,250.0	8,947.6	9,216.8	8,971.0	23.6	18.9	-91.42	-133.0	181.0	970.0	934.2	35.80	27.093		
9,300.0	8,957.0	9,268.9	8,978.8	23.7	18.9	-91.30	-184.5	180.6	970.0	934.1	35.92	27.003		
9,310.0	8,958.3	9,279.3	8,979.8	23.7	18.9	-91.28	-194.8	180.5	970.0	934.0	35.95	26.984		
9,350.0	8,962.0	9,320.7	8,981.9	23.7	18.9	-91.18	-236.2	180.1	969.9	933.9	36.05	26.904		
9,382.7	8,963.0	9,353.7	8,982.0	23.8	18.9	-91.13	-269.2	179.9	969.9	933.8	36.15	26.832		
9,382.9	8,963.0	9,353.9	8,982.0	23.8	18.9	-91.13	-269.4	179.9	969.9	933.8	36.15	26.832		
9,400.0	8,963.0	9,371.0	8,982.0	23.8	18.9	-91.13	-286.5	179.7	969.9	933.7	36.20	26.793		
9,405.0	8,963.0	9,376.0	8,982.0	23.8	18.9	-91.13	-291.5	179.7	969.9	933.7	36.22	26.780		
9,500.0	8,963.1	9,471.0	8,982.1	23.9	19.0	-91.13	-386.5	178.9	969.9	933.3	36.57	26.521		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,595.0	8,963.1	9,566.0	8,982.1	24.1	19.0	-91.13	-481.5	178.1	969.9	932.9	36.98	26.226		
9,600.0	8,963.1	9,571.0	8,982.1	24.1	19.0	-91.13	-486.5	178.1	969.9	932.9	37.01	26.210		
9,690.0	8,963.2	9,661.0	8,982.2	24.3	19.0	-91.13	-576.5	177.3	969.9	932.5	37.45	25.899		
9,700.0	8,963.2	9,671.0	8,982.2	24.3	19.0	-91.13	-586.5	177.2	969.9	932.4	37.50	25.865		
9,785.0	8,963.3	9,756.0	8,982.2	24.5	19.1	-91.12	-671.5	176.5	969.9	932.0	37.97	25.547		
9,800.0	8,963.3	9,771.0	8,982.2	24.5	19.1	-91.12	-686.5	176.4	969.9	931.9	38.05	25.490		
9,880.0	8,963.3	9,851.0	8,982.2	24.7	19.2	-91.12	-766.5	175.8	969.9	931.4	38.53	25.172		
9,900.0	8,963.3	9,871.0	8,982.3	24.7	19.2	-91.12	-786.5	175.6	969.9	931.3	38.66	25.092		
9,975.0	8,963.4	9,946.0	8,982.3	24.9	19.2	-91.12	-861.5	175.0	969.9	930.8	39.14	24.778		
10,000.0	8,963.4	9,971.0	8,982.3	25.0	19.2	-91.12	-886.5	174.8	969.9	930.6	39.31	24.673		
10,070.0	8,963.5	10,041.0	8,982.3	25.1	19.3	-91.12	-956.5	174.2	969.9	930.1	39.80	24.369		
10,100.0	8,963.5	10,071.0	8,982.3	25.2	19.3	-91.12	-986.5	173.9	969.9	929.9	40.01	24.239		
10,165.0	8,963.5	10,136.0	8,982.4	25.4	19.4	-91.12	-1,051.5	173.4	969.9	929.4	40.50	23.949		
10,200.0	8,963.5	10,171.0	8,982.4	25.5	19.4	-91.12	-1,086.5	173.1	969.9	929.2	40.76	23.794		
10,260.0	8,963.6	10,231.0	8,982.4	25.7	19.5	-91.12	-1,146.5	172.6	969.9	928.7	41.24	23.521		
10,300.0	8,963.6	10,271.0	8,982.4	25.8	19.6	-91.12	-1,186.5	172.3	969.9	928.4	41.56	23.341		
10,355.0	8,963.7	10,326.0	8,982.5	26.0	19.6	-91.12	-1,241.5	171.8	969.9	927.9	42.01	23.088		
10,400.0	8,963.7	10,371.0	8,982.5	26.1	19.7	-91.12	-1,286.5	171.5	969.9	927.5	42.39	22.883		
10,450.0	8,963.7	10,421.0	8,982.5	26.3	19.8	-91.12	-1,336.5	171.0	969.9	927.1	42.82	22.652		
10,500.0	8,963.7	10,471.0	8,982.5	26.4	19.9	-91.12	-1,386.5	170.6	969.9	926.7	43.26	22.423		
10,545.0	8,963.8	10,516.0	8,982.6	26.6	20.0	-91.12	-1,431.5	170.3	969.9	926.3	43.66	22.215		
10,600.0	8,963.8	10,571.0	8,982.6	26.8	20.1	-91.11	-1,486.5	169.8	969.9	925.8	44.16	21.964		
10,640.0	8,963.8	10,611.0	8,982.6	26.9	20.2	-91.11	-1,526.5	169.5	969.9	925.4	44.53	21.780		
10,700.0	8,963.9	10,671.0	8,982.6	27.1	20.4	-91.11	-1,586.5	169.0	969.9	924.8	45.10	21.507		
10,735.0	8,963.9	10,706.0	8,982.6	27.3	20.5	-91.11	-1,621.5	168.7	969.9	924.5	45.43	21.348		
10,800.0	8,963.9	10,771.0	8,982.7	27.5	20.8	-91.11	-1,686.5	168.2	969.9	923.9	46.07	21.055		
10,830.0	8,964.0	10,801.0	8,982.7	27.6	20.9	-91.11	-1,716.5	167.9	969.9	923.6	46.36	20.920		
10,900.0	8,964.0	10,871.0	8,982.7	27.9	21.1	-91.11	-1,786.4	167.3	969.9	922.9	47.06	20.609		
10,925.0	8,964.0	10,896.0	8,982.7	28.0	21.2	-91.11	-1,811.4	167.1	969.9	922.6	47.32	20.498		
11,000.0	8,964.1	10,971.0	8,982.8	28.3	21.6	-91.11	-1,886.4	166.5	969.9	921.8	48.09	20.170		
11,020.0	8,964.1	10,991.0	8,982.8	28.4	21.6	-91.11	-1,906.4	166.3	969.9	921.6	48.30	20.083		
11,100.0	8,964.1	11,071.0	8,982.8	28.7	22.0	-91.11	-1,986.4	165.7	969.9	920.8	49.14	19.739		
11,115.0	8,964.2	11,086.0	8,982.8	28.8	22.1	-91.11	-2,001.4	165.6	969.9	920.6	49.30	19.675		
11,200.0	8,964.2	11,171.0	8,982.9	29.2	22.5	-91.11	-2,086.4	164.9	969.9	919.7	50.21	19.317		
11,210.0	8,964.2	11,181.0	8,982.9	29.2	22.6	-91.11	-2,096.4	164.8	969.9	919.6	50.32	19.275		
11,300.0	8,964.3	11,271.0	8,982.9	29.6	23.1	-91.11	-2,186.4	164.0	969.9	918.6	51.31	18.904		
11,305.0	8,964.3	11,276.0	8,982.9	29.6	23.1	-91.11	-2,191.4	164.0	969.9	918.6	51.36	18.884		
11,400.0	8,964.3	11,371.0	8,983.0	30.1	23.6	-91.10	-2,286.4	163.2	969.9	917.5	52.42	18.502		
11,495.0	8,964.4	11,466.0	8,983.0	30.5	24.2	-91.10	-2,381.4	162.4	969.9	916.4	53.50	18.129		
11,500.0	8,964.4	11,471.0	8,983.0	30.6	24.2	-91.10	-2,386.4	162.4	969.9	916.4	53.56	18.109		
11,590.0	8,964.5	11,561.0	8,983.0	31.0	24.7	-91.10	-2,476.4	161.6	969.9	915.3	54.60	17.765		
11,600.0	8,964.5	11,571.0	8,983.0	31.0	24.8	-91.10	-2,486.4	161.5	969.9	915.2	54.71	17.727		
11,685.0	8,964.5	11,656.0	8,983.1	31.5	25.3	-91.10	-2,571.4	160.8	969.9	914.2	55.71	17.410		
11,700.0	8,964.6	11,671.0	8,983.1	31.5	25.4	-91.10	-2,586.4	160.7	969.9	914.0	55.89	17.355		
11,780.0	8,964.6	11,751.0	8,983.1	31.9	25.9	-91.10	-2,666.4	160.1	969.9	913.1	56.84	17.065		
11,800.0	8,964.6	11,771.0	8,983.1	32.0	26.0	-91.10	-2,686.4	159.9	969.9	912.9	57.07	16.994		
11,875.0	8,964.7	11,846.0	8,983.2	32.4	26.5	-91.10	-2,761.4	159.3	969.9	912.0	57.98	16.730		
11,900.0	8,964.7	11,871.0	8,983.2	32.6	26.7	-91.10	-2,786.4	159.1	969.9	911.7	58.28	16.643		
11,970.0	8,964.7	11,941.0	8,983.2	32.9	27.1	-91.10	-2,856.4	158.5	969.9	910.8	59.13	16.403		
12,000.0	8,964.8	11,971.0	8,983.2	33.1	27.3	-91.10	-2,886.4	158.2	969.9	910.4	59.50	16.303		
12,065.0	8,964.8	12,036.0	8,983.3	33.4	27.7	-91.10	-2,951.4	157.7	969.9	909.6	60.30	16.086		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft			
Offset		Semi Major Axis		Offset Wellbore Centre		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,100.0	8,964.8	12,071.0	8,983.3	33.6	28.0	-91.10	-2,986.4	157.4	969.9	909.2	60.73	15.972			
12,160.0	8,964.9	12,131.0	8,983.3	34.0	28.3	-91.10	-3,046.4	156.9	969.9	908.5	61.47	15.778			
12,200.0	8,964.9	12,171.0	8,983.3	34.2	28.6	-91.10	-3,086.4	156.6	969.9	908.0	61.97	15.651			
12,255.0	8,964.9	12,226.0	8,983.4	34.5	29.0	-91.09	-3,141.4	156.1	969.9	907.3	62.66	15.479			
12,300.0	8,965.0	12,271.0	8,983.4	34.7	29.3	-91.09	-3,186.4	155.8	969.9	906.7	63.23	15.340			
12,350.0	8,965.0	12,321.0	8,983.4	35.0	29.6	-91.09	-3,236.4	155.4	969.9	906.1	63.86	15.188			
12,400.0	8,965.0	12,371.0	8,983.4	35.3	29.9	-91.09	-3,286.4	154.9	969.9	905.4	64.49	15.039			
12,445.0	8,965.0	12,416.0	8,983.4	35.5	30.3	-91.09	-3,331.4	154.6	969.9	904.9	65.07	14.906			
12,500.0	8,965.1	12,471.0	8,983.5	35.9	30.6	-91.09	-3,386.4	154.1	969.9	904.2	65.77	14.747			
12,540.0	8,965.1	12,511.0	8,983.5	36.1	30.9	-91.09	-3,426.4	153.8	969.9	903.6	66.29	14.632			
12,600.0	8,965.2	12,571.0	8,983.5	36.4	31.3	-91.09	-3,486.4	153.3	969.9	902.9	67.06	14.463			
12,635.0	8,965.2	12,606.0	8,983.5	36.6	31.5	-91.09	-3,521.4	153.0	969.9	902.4	67.51	14.366			
12,700.0	8,965.2	12,671.0	8,983.6	37.0	32.0	-91.09	-3,586.4	152.5	969.9	901.6	68.36	14.189			
12,730.0	8,965.2	12,701.0	8,983.6	37.2	32.2	-91.09	-3,616.4	152.2	969.9	901.2	68.75	14.108			
12,800.0	8,965.3	12,771.0	8,983.6	37.6	32.7	-91.09	-3,686.4	151.6	969.9	900.3	69.67	13.923			
12,825.0	8,965.3	12,796.0	8,983.6	37.8	32.9	-91.09	-3,711.4	151.4	969.9	899.9	69.99	13.857			
12,900.0	8,965.4	12,871.0	8,983.7	38.2	33.4	-91.09	-3,786.4	150.8	969.9	899.0	70.98	13.665			
12,920.0	8,965.4	12,891.0	8,983.7	38.3	33.5	-91.09	-3,806.4	150.6	969.9	898.7	71.25	13.614			
13,000.0	8,965.4	12,971.0	8,983.7	38.8	34.1	-91.09	-3,886.4	150.0	969.9	897.6	72.30	13.415			
13,015.0	8,965.4	12,986.0	8,983.7	38.9	34.2	-91.09	-3,901.4	149.9	969.9	897.4	72.50	13.378			
13,100.0	8,965.5	13,071.0	8,983.7	39.4	34.8	-91.08	-3,986.4	149.2	969.9	896.3	73.64	13.172			
13,110.0	8,965.5	13,081.0	8,983.8	39.5	34.8	-91.08	-3,996.4	149.1	969.9	896.2	73.77	13.148			
13,200.0	8,965.6	13,171.0	8,983.8	40.0	35.5	-91.08	-4,086.4	148.3	969.9	895.0	74.97	12.937			
13,205.0	8,965.6	13,176.0	8,983.8	40.1	35.5	-91.08	-4,091.4	148.3	969.9	894.9	75.04	12.925			
13,300.0	8,965.6	13,271.0	8,983.8	40.7	36.2	-91.08	-4,186.4	147.5	969.9	893.6	76.32	12.709			
13,395.0	8,965.7	13,366.0	8,983.9	41.3	36.9	-91.08	-4,281.4	146.7	969.9	892.3	77.60	12.498			
13,400.0	8,965.7	13,371.0	8,983.9	41.3	36.9	-91.08	-4,286.4	146.7	969.9	892.3	77.67	12.488			
13,490.0	8,965.7	13,461.0	8,983.9	41.9	37.5	-91.08	-4,376.4	145.9	969.9	891.0	78.89	12.294			
13,500.0	8,965.8	13,471.0	8,983.9	41.9	37.6	-91.08	-4,386.4	145.9	969.9	890.9	79.03	12.273			
13,585.0	8,965.8	13,556.0	8,984.0	42.5	38.2	-91.08	-4,471.4	145.2	969.9	889.7	80.19	12.096			
13,600.0	8,965.8	13,571.0	8,984.0	42.5	38.3	-91.08	-4,486.4	145.0	969.9	889.5	80.39	12.065			
13,680.0	8,965.9	13,651.0	8,984.0	43.1	38.9	-91.08	-4,566.4	144.4	969.9	888.4	81.49	11.903			
13,700.0	8,965.9	13,671.0	8,984.0	43.2	39.0	-91.08	-4,586.4	144.2	969.9	888.2	81.76	11.863			
13,775.0	8,965.9	13,746.0	8,984.1	43.7	39.6	-91.08	-4,661.3	143.6	969.9	887.1	82.80	11.715			
13,800.0	8,966.0	13,771.0	8,984.1	43.8	39.7	-91.08	-4,686.3	143.4	969.9	886.8	83.14	11.666			
13,870.0	8,966.0	13,841.0	8,984.1	44.3	40.2	-91.08	-4,756.3	142.8	969.9	885.8	84.11	11.532			
13,900.0	8,966.0	13,871.0	8,984.1	44.5	40.5	-91.08	-4,786.3	142.5	969.9	885.4	84.52	11.476			
13,965.0	8,966.1	13,936.0	8,984.2	44.9	40.9	-91.07	-4,851.3	142.0	969.9	884.5	85.42	11.355			
14,000.0	8,966.1	13,971.0	8,984.2	45.1	41.2	-91.07	-4,886.3	141.7	969.9	884.0	85.90	11.291			
14,060.0	8,966.1	14,031.0	8,984.2	45.5	41.6	-91.07	-4,946.3	141.2	969.9	883.2	86.74	11.182			
14,100.0	8,966.2	14,071.0	8,984.2	45.8	41.9	-91.07	-4,986.3	140.9	969.9	882.6	87.29	11.111			
14,155.0	8,966.2	14,126.0	8,984.2	46.1	42.3	-91.07	-5,041.3	140.4	969.9	881.9	88.06	11.014			
14,200.0	8,966.2	14,171.0	8,984.3	46.4	42.6	-91.07	-5,086.3	140.1	969.9	881.2	88.69	10.936			
14,250.0	8,966.3	14,221.0	8,984.3	46.8	43.0	-91.07	-5,136.3	139.7	969.9	880.6	89.39	10.851			
14,300.0	8,966.3	14,271.0	8,984.3	47.1	43.4	-91.07	-5,186.3	139.2	969.9	879.9	90.09	10.767			
14,345.0	8,966.3	14,316.0	8,984.3	47.4	43.7	-91.07	-5,231.3	138.9	969.9	879.2	90.72	10.692			
14,400.0	8,966.4	14,371.0	8,984.4	47.8	44.1	-91.07	-5,286.3	138.4	969.9	878.4	91.49	10.602			
14,440.0	8,966.4	14,411.0	8,984.4	48.0	44.4	-91.07	-5,326.3	138.1	969.9	877.9	92.05	10.537			
14,500.0	8,966.4	14,471.0	8,984.4	48.4	44.8	-91.07	-5,386.3	137.6	969.9	877.0	92.90	10.441			
14,535.0	8,966.4	14,506.0	8,984.4	48.7	45.1	-91.07	-5,421.3	137.3	969.9	876.6	93.39	10.386			
14,600.0	8,966.5	14,571.0	8,984.4	49.1	45.5	-91.07	-5,486.3	136.8	969.9	875.6	94.31	10.285			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,630.0	8,966.5	14,601.0	8,984.5	49.3	45.8	-91.07	-5,516.3	136.5	969.9	875.2	94.73	10.239	
14,700.0	8,966.6	14,671.0	8,984.5	49.8	46.3	-91.07	-5,586.3	135.9	969.9	874.2	95.72	10.133	
14,725.0	8,966.6	14,696.0	8,984.5	50.0	46.5	-91.07	-5,611.3	135.7	969.9	873.9	96.07	10.096	
14,800.0	8,966.6	14,771.0	8,984.5	50.5	47.0	-91.06	-5,686.3	135.1	969.9	872.8	97.14	9.985	
14,820.0	8,966.6	14,791.0	8,984.5	50.6	47.1	-91.06	-5,706.3	134.9	969.9	872.5	97.42	9.956	
14,900.0	8,966.7	14,871.0	8,984.6	51.1	47.7	-91.06	-5,786.3	134.3	969.9	871.4	98.56	9.841	
14,915.0	8,966.7	14,886.0	8,984.6	51.2	47.8	-91.06	-5,801.3	134.2	969.9	871.2	98.77	9.820	
15,000.0	8,966.8	14,971.0	8,984.6	51.8	48.5	-91.06	-5,886.3	133.5	969.9	870.0	99.98	9.701	
15,010.0	8,966.8	14,981.0	8,984.6	51.9	48.5	-91.06	-5,896.3	133.4	969.9	869.8	100.12	9.687	
15,100.0	8,966.8	15,071.0	8,984.7	52.5	49.2	-91.06	-5,986.3	132.6	969.9	868.5	101.41	9.565	
15,105.0	8,966.8	15,076.0	8,984.7	52.5	49.2	-91.06	-5,991.3	132.6	969.9	868.5	101.48	9.558	
15,200.0	8,966.9	15,171.0	8,984.7	53.2	49.9	-91.06	-6,086.3	131.8	969.9	867.1	102.84	9.432	
15,295.0	8,967.0	15,266.0	8,984.8	53.8	50.6	-91.06	-6,181.3	131.0	969.9	865.7	104.20	9.309	
15,300.0	8,967.0	15,271.0	8,984.8	53.9	50.7	-91.06	-6,186.3	131.0	969.9	865.7	104.27	9.302	
15,390.0	8,967.0	15,361.0	8,984.8	54.5	51.3	-91.06	-6,276.3	130.2	969.9	864.4	105.56	9.189	
15,400.0	8,967.0	15,371.0	8,984.8	54.6	51.4	-91.06	-6,286.3	130.2	969.9	864.2	105.70	9.176	
15,485.0	8,967.1	15,456.0	8,984.9	55.2	52.0	-91.06	-6,371.3	129.5	969.9	863.0	106.93	9.071	
15,500.0	8,967.1	15,471.0	8,984.9	55.3	52.1	-91.06	-6,386.3	129.3	969.9	862.8	107.14	9.053	
15,580.0	8,967.1	15,551.0	8,984.9	55.8	52.7	-91.05	-6,466.3	128.7	969.9	861.7	108.29	8.957	
15,600.0	8,967.2	15,571.0	8,984.9	56.0	52.9	-91.05	-6,486.3	128.5	969.9	861.4	108.58	8.933	
15,675.0	8,967.2	15,646.0	8,984.9	56.5	53.4	-91.05	-6,561.3	127.9	969.9	860.3	109.66	8.845	
15,700.0	8,967.2	15,671.0	8,985.0	56.7	53.6	-91.05	-6,586.3	127.7	969.9	859.9	110.02	8.816	
15,770.0	8,967.3	15,741.0	8,985.0	57.1	54.1	-91.05	-6,656.3	127.1	969.9	858.9	111.03	8.736	
15,800.0	8,967.3	15,771.0	8,985.0	57.3	54.4	-91.05	-6,686.3	126.9	969.9	858.5	111.47	8.702	
15,865.0	8,967.3	15,836.0	8,985.0	57.8	54.9	-91.05	-6,751.3	126.3	969.9	857.5	112.41	8.629	
15,900.0	8,967.4	15,871.0	8,985.1	58.0	55.1	-91.05	-6,786.3	126.0	969.9	857.0	112.91	8.590	
15,960.0	8,967.4	15,931.0	8,985.1	58.5	55.6	-91.05	-6,846.3	125.5	969.9	856.2	113.78	8.525	
16,000.0	8,967.4	15,971.0	8,985.1	58.7	55.9	-91.05	-6,886.3	125.2	969.9	855.6	114.36	8.481	
16,055.0	8,967.5	16,026.0	8,985.1	59.1	56.3	-91.05	-6,941.3	124.7	969.9	854.8	115.16	8.423	
16,100.0	8,967.5	16,071.0	8,985.1	59.5	56.6	-91.05	-6,986.3	124.4	969.9	854.1	115.81	8.375	
16,150.0	8,967.5	16,121.0	8,985.2	59.8	57.0	-91.05	-7,036.3	124.0	969.9	853.4	116.54	8.323	
16,200.0	8,967.6	16,171.0	8,985.2	60.2	57.3	-91.05	-7,086.3	123.5	969.9	852.7	117.27	8.271	
16,245.0	8,967.6	16,216.0	8,985.2	60.5	57.7	-91.05	-7,131.3	123.2	969.9	852.0	117.92	8.225	
16,300.0	8,967.6	16,271.0	8,985.2	60.9	58.1	-91.05	-7,186.3	122.7	969.9	851.2	118.72	8.170	
16,340.0	8,967.7	16,311.0	8,985.3	61.1	58.4	-91.05	-7,226.3	122.4	969.9	850.6	119.30	8.130	
16,400.0	8,967.7	16,371.0	8,985.3	61.6	58.8	-91.05	-7,286.3	121.9	969.9	849.8	120.18	8.071	
16,435.0	8,967.7	16,406.0	8,985.3	61.8	59.1	-91.04	-7,321.3	121.6	969.9	849.3	120.69	8.037	
16,500.0	8,967.8	16,471.0	8,985.3	62.3	59.6	-91.04	-7,386.3	121.1	969.9	848.3	121.63	7.974	
16,530.0	8,967.8	16,501.0	8,985.3	62.5	59.8	-91.04	-7,416.3	120.8	969.9	847.9	122.07	7.946	
16,600.0	8,967.8	16,571.0	8,985.4	63.0	60.3	-91.04	-7,486.3	120.2	969.9	846.9	123.09	7.880	
16,625.0	8,967.8	16,596.0	8,985.4	63.2	60.5	-91.04	-7,511.3	120.0	969.9	846.5	123.46	7.856	
16,700.0	8,967.9	16,671.0	8,985.4	63.7	61.1	-91.04	-7,586.2	119.4	969.9	845.4	124.55	7.787	
16,720.0	8,967.9	16,691.0	8,985.4	63.8	61.2	-91.04	-7,606.2	119.3	969.9	845.1	124.85	7.769	
16,800.0	8,968.0	16,771.0	8,985.5	64.4	61.8	-91.04	-7,686.2	118.6	969.9	843.9	126.02	7.697	
16,815.0	8,968.0	16,786.0	8,985.5	64.5	61.9	-91.04	-7,701.2	118.5	969.9	843.7	126.24	7.684	
16,900.0	8,968.0	16,871.0	8,985.5	65.1	62.6	-91.04	-7,786.2	117.8	970.0	842.5	127.48	7.609	
16,910.0	8,968.0	16,881.0	8,985.5	65.2	62.6	-91.04	-7,796.2	117.7	970.0	842.3	127.63	7.600	
17,000.0	8,968.1	16,971.0	8,985.6	65.8	63.3	-91.04	-7,886.2	116.9	970.0	841.0	128.95	7.522	
17,005.0	8,968.1	16,976.0	8,985.6	65.9	63.3	-91.04	-7,891.2	116.9	970.0	840.9	129.02	7.518	
17,100.0	8,968.2	17,071.0	8,985.6	66.6	64.0	-91.04	-7,986.2	116.1	970.0	839.5	130.42	7.437	
17,195.0	8,968.2	17,166.0	8,985.7	67.2	64.8	-91.04	-8,081.2	115.3	970.0	838.1	131.81	7.359	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance			Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,200.0	8,968.2	17,171.0	8,985.7	67.3	64.8	-91.04	-8,086.2	115.3	970.0	838.1	131.88	7.355		
17,290.0	8,968.3	17,261.0	8,985.7	67.9	65.5	-91.03	-8,176.2	114.5	970.0	836.7	133.21	7.282		
17,300.0	8,968.3	17,271.0	8,985.7	68.0	65.5	-91.03	-8,186.2	114.5	970.0	836.6	133.35	7.274		
17,385.0	8,968.4	17,356.0	8,985.7	68.6	66.2	-91.03	-8,271.2	113.8	970.0	835.3	134.60	7.206		
17,400.0	8,968.4	17,371.0	8,985.8	68.7	66.3	-91.03	-8,286.2	113.6	970.0	835.1	134.82	7.194		
17,480.0	8,968.4	17,451.0	8,985.8	69.3	66.9	-91.03	-8,366.2	113.0	970.0	834.0	136.00	7.132		
17,500.0	8,968.4	17,471.0	8,985.8	69.4	67.0	-91.03	-8,386.2	112.8	970.0	833.7	136.30	7.116		
17,575.0	8,968.5	17,546.0	8,985.8	70.0	67.6	-91.03	-8,461.2	112.2	970.0	832.6	137.40	7.059		
17,600.0	8,968.5	17,571.0	8,985.8	70.2	67.8	-91.03	-8,486.2	112.0	970.0	832.2	137.77	7.040		
17,670.0	8,968.5	17,641.0	8,985.9	70.7	68.3	-91.03	-8,556.2	111.4	970.0	831.2	138.80	6.988		
17,700.0	8,968.6	17,671.0	8,985.9	70.9	68.5	-91.03	-8,586.2	111.2	970.0	830.7	139.25	6.966		
17,765.0	8,968.6	17,736.0	8,985.9	71.3	69.0	-91.03	-8,651.2	110.6	970.0	829.7	140.20	6.918		
17,800.0	8,968.6	17,771.0	8,985.9	71.6	69.3	-91.03	-8,686.2	110.3	970.0	829.2	140.72	6.893		
17,860.0	8,968.7	17,831.0	8,986.0	72.0	69.7	-91.03	-8,746.2	109.8	970.0	828.3	141.61	6.850		
17,900.0	8,968.7	17,871.0	8,986.0	72.3	70.0	-91.03	-8,786.2	109.5	970.0	827.8	142.20	6.821		
17,955.0	8,968.7	17,926.0	8,986.0	72.7	70.4	-91.03	-8,841.2	109.1	970.0	826.9	143.01	6.782		
18,000.0	8,968.8	17,971.0	8,986.0	73.1	70.8	-91.03	-8,886.2	108.7	970.0	826.3	143.68	6.751		
18,050.0	8,968.8	18,021.0	8,986.1	73.4	71.2	-91.03	-8,936.2	108.3	970.0	825.5	144.42	6.716		
18,100.0	8,968.8	18,071.0	8,986.1	73.8	71.5	-91.02	-8,986.2	107.9	970.0	824.8	145.16	6.682		
18,145.0	8,968.9	18,116.0	8,986.1	74.1	71.9	-91.02	-9,031.2	107.5	970.0	824.1	145.82	6.652		
18,200.0	8,968.9	18,171.0	8,986.1	74.5	72.3	-91.02	-9,086.2	107.0	970.0	823.3	146.64	6.615		
18,240.0	8,968.9	18,211.0	8,986.1	74.8	72.6	-91.02	-9,126.2	106.7	970.0	822.7	147.23	6.588		
18,300.0	8,969.0	18,271.0	8,986.2	75.2	73.0	-91.02	-9,186.2	106.2	970.0	821.8	148.12	6.549		
18,335.0	8,969.0	18,306.0	8,986.2	75.5	73.3	-91.02	-9,221.2	105.9	970.0	821.3	148.64	6.526		
18,400.0	8,969.0	18,371.0	8,986.2	76.0	73.8	-91.02	-9,286.2	105.4	970.0	820.4	149.60	6.484		
18,430.0	8,969.1	18,401.0	8,986.2	76.2	74.0	-91.02	-9,316.2	105.1	970.0	819.9	150.04	6.464		
18,500.0	8,969.1	18,471.0	8,986.3	76.7	74.5	-91.02	-9,386.2	104.5	970.0	818.9	151.08	6.420		
18,525.0	8,969.1	18,496.0	8,986.3	76.9	74.7	-91.02	-9,411.2	104.3	970.0	818.5	151.45	6.404		
18,600.0	8,969.2	18,571.0	8,986.3	77.4	75.3	-91.02	-9,486.2	103.7	970.0	817.4	152.57	6.358		
18,620.0	8,969.2	18,591.0	8,986.3	77.6	75.4	-91.02	-9,506.2	103.6	970.0	817.1	152.86	6.345		
18,700.0	8,969.2	18,671.0	8,986.4	78.1	76.0	-91.02	-9,586.2	102.9	970.0	815.9	154.05	6.296		
18,715.0	8,969.2	18,686.0	8,986.4	78.3	76.2	-91.02	-9,601.2	102.8	970.0	815.7	154.27	6.287		
18,800.0	8,969.3	18,771.0	8,986.4	78.9	76.8	-91.02	-9,686.2	102.1	970.0	814.4	155.54	6.236		
18,810.0	8,969.3	18,781.0	8,986.4	79.0	76.9	-91.02	-9,696.2	102.0	970.0	814.3	155.68	6.230		
18,900.0	8,969.4	18,871.0	8,986.5	79.6	77.6	-91.02	-9,786.2	101.2	970.0	812.9	157.02	6.177		
18,905.0	8,969.4	18,876.0	8,986.5	79.6	77.6	-91.02	-9,791.2	101.2	970.0	812.9	157.10	6.174		
19,000.0	8,969.4	18,971.0	8,986.5	80.3	78.3	-91.01	-9,886.2	100.4	970.0	811.5	158.51	6.119		
19,095.0	8,969.5	19,066.0	8,986.5	81.0	79.0	-91.01	-9,981.2	99.6	970.0	810.0	159.92	6.065		
19,100.0	8,969.5	19,071.0	8,986.5	81.1	79.1	-91.01	-9,986.2	99.6	970.0	810.0	160.00	6.062		
19,190.0	8,969.6	19,161.0	8,986.6	81.7	79.7	-91.01	-10,076.2	98.8	970.0	808.6	161.34	6.012		
19,200.0	8,969.6	19,171.0	8,986.6	81.8	79.8	-91.01	-10,086.2	98.8	970.0	808.5	161.49	6.006		
19,285.0	8,969.6	19,256.0	8,986.6	82.4	80.5	-91.01	-10,171.2	98.1	970.0	807.2	162.75	5.960		
19,300.0	8,969.6	19,271.0	8,986.6	82.5	80.6	-91.01	-10,186.2	97.9	970.0	807.0	162.98	5.952		
19,380.0	8,969.7	19,351.0	8,986.7	83.1	81.2	-91.01	-10,266.2	97.3	970.0	805.8	164.17	5.908		
19,400.0	8,969.7	19,371.0	8,986.7	83.3	81.3	-91.01	-10,286.2	97.1	970.0	805.5	164.47	5.898		
19,475.0	8,969.8	19,446.0	8,986.7	83.8	81.9	-91.01	-10,361.2	96.5	970.0	804.4	165.58	5.858		
19,500.0	8,969.8	19,471.0	8,986.7	84.0	82.1	-91.01	-10,386.2	96.3	970.0	804.0	165.96	5.845		
19,570.0	8,969.8	19,541.0	8,986.8	84.5	82.6	-91.01	-10,456.2	95.7	970.0	803.0	167.00	5.808		
19,600.0	8,969.8	19,571.0	8,986.8	84.7	82.8	-91.01	-10,486.1	95.5	970.0	802.5	167.45	5.793		
19,665.0	8,969.9	19,636.0	8,986.8	85.2	83.3	-91.01	-10,551.1	94.9	970.0	801.5	168.42	5.759		
19,700.0	8,969.9	19,671.0	8,986.8	85.5	83.6	-91.01	-10,586.1	94.6	970.0	801.0	168.94	5.741		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,760.0	8,969.9	19,731.0	8,986.9	85.9	84.0	-91.00	-10,646.1	94.1	970.0	800.1	169.83	5.711		
19,800.0	8,970.0	19,771.0	8,986.9	86.2	84.3	-91.00	-10,686.1	93.8	970.0	799.5	170.43	5.691		
19,855.0	8,970.0	19,826.0	8,986.9	86.6	84.8	-91.00	-10,741.1	93.4	970.0	798.7	171.25	5.664		
19,900.0	8,970.0	19,871.0	8,986.9	87.0	85.1	-91.00	-10,786.1	93.0	970.0	798.0	171.93	5.642		
19,950.0	8,970.1	19,921.0	8,986.9	87.3	85.5	-91.00	-10,836.1	92.6	970.0	797.3	172.67	5.617		
20,000.0	8,970.1	19,971.0	8,987.0	87.7	85.8	-91.00	-10,886.1	92.2	970.0	796.5	173.42	5.593		
20,045.0	8,970.1	20,016.0	8,987.0	88.0	86.2	-91.00	-10,931.1	91.8	970.0	795.9	174.09	5.572		
20,100.0	8,970.2	20,071.0	8,987.0	88.4	86.6	-91.00	-10,986.1	91.3	970.0	795.1	174.91	5.545		
20,140.0	8,970.2	20,111.0	8,987.0	88.7	86.9	-91.00	-11,026.1	91.0	970.0	794.5	175.51	5.526		
20,200.0	8,970.2	20,171.0	8,987.1	89.2	87.4	-91.00	-11,086.1	90.5	970.0	793.6	176.41	5.498		
20,235.0	8,970.3	20,206.0	8,987.1	89.4	87.6	-91.00	-11,121.1	90.2	970.0	793.0	176.93	5.482		
20,300.0	8,970.3	20,271.0	8,987.1	89.9	88.1	-91.00	-11,186.1	89.7	970.0	792.1	177.90	5.452		
20,330.0	8,970.3	20,301.0	8,987.1	90.1	88.3	-91.00	-11,216.1	89.4	970.0	791.6	178.35	5.438		
20,400.0	8,970.4	20,371.0	8,987.2	90.6	88.9	-91.00	-11,286.1	88.9	970.0	790.6	179.40	5.407		
20,425.0	8,970.4	20,396.0	8,987.2	90.8	89.1	-91.00	-11,311.1	88.6	970.0	790.2	179.77	5.395		
20,500.0	8,970.4	20,471.0	8,987.2	91.4	89.6	-91.00	-11,386.1	88.0	970.0	789.1	180.90	5.362		
20,520.0	8,970.5	20,491.0	8,987.2	91.5	89.8	-91.00	-11,406.1	87.9	970.0	788.8	181.20	5.353		
20,600.0	8,970.5	20,571.0	8,987.2	92.1	90.4	-90.99	-11,486.1	87.2	970.0	787.6	182.39	5.318		
20,615.0	8,970.5	20,586.0	8,987.3	92.2	90.5	-90.99	-11,501.1	87.1	970.0	787.3	182.62	5.311		
20,700.0	8,970.6	20,671.0	8,987.3	92.9	91.1	-90.99	-11,586.1	86.4	970.0	786.1	183.89	5.275		
20,710.0	8,970.6	20,681.0	8,987.3	92.9	91.2	-90.99	-11,596.1	86.3	970.0	785.9	184.04	5.270		
20,800.0	8,970.6	20,771.0	8,987.3	93.6	91.9	-90.99	-11,686.1	85.5	970.0	784.6	185.39	5.232		
20,805.0	8,970.6	20,776.0	8,987.3	93.6	91.9	-90.99	-11,691.1	85.5	970.0	784.5	185.47	5.230		
20,900.0	8,970.7	20,871.0	8,987.4	94.3	92.6	-90.99	-11,786.1	84.7	970.0	783.1	186.89	5.190		
20,995.0	8,970.8	20,966.0	8,987.4	95.1	93.4	-90.99	-11,881.1	83.9	970.0	781.7	188.31	5.151		
21,000.0	8,970.8	20,971.0	8,987.4	95.1	93.4	-90.99	-11,886.1	83.9	970.0	781.6	188.39	5.149		
21,090.0	8,970.8	21,061.0	8,987.5	95.8	94.1	-90.99	-11,976.1	83.2	970.0	780.2	189.74	5.112		
21,100.0	8,970.8	21,071.0	8,987.5	95.8	94.2	-90.99	-11,986.1	83.1	970.0	780.1	189.89	5.108		
21,185.0	8,970.9	21,156.0	8,987.5	96.5	94.8	-90.99	-12,071.1	82.4	970.0	778.8	191.16	5.074		
21,200.0	8,970.9	21,171.0	8,987.5	96.6	94.9	-90.99	-12,086.1	82.2	970.0	778.6	191.39	5.068		
21,280.0	8,971.0	21,251.0	8,987.6	97.2	95.5	-90.99	-12,166.1	81.6	970.0	777.4	192.59	5.036		
21,300.0	8,971.0	21,271.0	8,987.6	97.3	95.7	-90.99	-12,186.1	81.4	970.0	777.1	192.89	5.029		
21,375.0	8,971.0	21,346.0	8,987.6	97.9	96.2	-90.99	-12,261.1	80.8	970.0	776.0	194.01	4.999		
21,400.0	8,971.0	21,371.0	8,987.6	98.1	96.4	-90.99	-12,286.1	80.6	970.0	775.6	194.39	4.990		
21,470.0	8,971.1	21,441.0	8,987.7	98.6	97.0	-90.98	-12,356.1	80.0	970.0	774.5	195.44	4.963		
21,500.0	8,971.1	21,471.0	8,987.7	98.8	97.2	-90.98	-12,386.1	79.8	970.0	774.1	195.89	4.952		
21,565.0	8,971.2	21,536.0	8,987.7	99.3	97.7	-90.98	-12,451.1	79.2	970.0	773.1	196.87	4.927		
21,600.0	8,971.2	21,571.0	8,987.7	99.5	97.9	-90.98	-12,486.1	78.9	970.0	772.6	197.39	4.914		
21,660.0	8,971.2	21,631.0	8,987.7	100.0	98.4	-90.98	-12,546.1	78.4	970.0	771.7	198.29	4.892		
21,700.0	8,971.2	21,671.0	8,987.8	100.3	98.7	-90.98	-12,586.1	78.1	970.0	771.1	198.90	4.877		
21,755.0	8,971.3	21,726.0	8,987.8	100.7	99.1	-90.98	-12,641.1	77.7	970.0	770.3	199.72	4.857		
21,800.0	8,971.3	21,771.0	8,987.8	101.0	99.5	-90.98	-12,686.1	77.3	970.0	769.6	200.40	4.840		
21,850.0	8,971.3	21,821.0	8,987.8	101.4	99.8	-90.98	-12,736.1	76.9	970.0	768.8	201.15	4.822		
21,900.0	8,971.4	21,871.0	8,987.9	101.8	100.2	-90.98	-12,786.1	76.5	970.0	768.1	201.90	4.804		
21,945.0	8,971.4	21,916.0	8,987.9	102.1	100.6	-90.98	-12,831.1	76.1	970.0	767.4	202.58	4.788		
22,000.0	8,971.4	21,971.0	8,987.9	102.5	101.0	-90.98	-12,886.1	75.6	970.0	766.6	203.40	4.769		
22,040.0	8,971.5	22,011.0	8,987.9	102.8	101.3	-90.98	-12,926.1	75.3	970.0	766.0	204.01	4.755		
22,100.0	8,971.5	22,071.0	8,987.9	103.3	101.7	-90.98	-12,986.1	74.8	970.0	765.1	204.91	4.734		
22,135.0	8,971.5	22,106.0	8,988.0	103.5	102.0	-90.98	-13,021.1	74.5	970.0	764.5	205.43	4.722		
22,200.0	8,971.6	22,171.0	8,988.0	104.0	102.5	-90.98	-13,086.1	74.0	970.0	763.6	206.41	4.699		
22,230.0	8,971.6	22,201.0	8,988.0	104.2	102.7	-90.98	-13,116.1	73.7	970.0	763.1	206.86	4.689		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
22,300.0	8,971.6	22,271.0	8,988.0	104.8	103.2	-90.97	-13,186.1	73.2	970.0	762.1	207.92	4.665		
22,325.0	8,971.7	22,296.0	8,988.1	104.9	103.4	-90.97	-13,211.1	73.0	970.0	761.7	208.29	4.657		
22,400.0	8,971.7	22,371.0	8,988.1	105.5	104.0	-90.97	-13,286.1	72.3	970.0	760.6	209.42	4.632		
22,420.0	8,971.7	22,391.0	8,988.1	105.7	104.2	-90.97	-13,306.1	72.2	970.0	760.3	209.72	4.625		
22,500.0	8,971.8	22,471.0	8,988.1	106.3	104.8	-90.97	-13,386.1	71.5	970.0	759.0	210.93	4.599		
22,515.0	8,971.8	22,486.0	8,988.1	106.4	104.9	-90.97	-13,401.0	71.4	970.0	758.8	211.15	4.594		
22,600.0	8,971.8	22,571.0	8,988.2	107.0	105.5	-90.97	-13,486.0	70.7	970.0	757.5	212.43	4.566		
22,610.0	8,971.9	22,581.0	8,988.2	107.1	105.6	-90.97	-13,496.0	70.6	970.0	757.4	212.58	4.563		
22,700.0	8,971.9	22,671.0	8,988.2	107.7	106.3	-90.97	-13,586.0	69.9	970.0	756.0	213.94	4.534		
22,705.0	8,971.9	22,676.0	8,988.2	107.8	106.3	-90.97	-13,591.0	69.8	970.0	756.0	214.01	4.532		
22,800.0	8,972.0	22,771.0	8,988.3	108.5	107.0	-90.97	-13,686.0	69.0	970.0	754.5	215.44	4.502		
22,895.0	8,972.0	22,866.0	8,988.3	109.2	107.8	-90.97	-13,781.0	68.2	970.0	753.1	216.87	4.473		
22,900.0	8,972.0	22,871.0	8,988.3	109.2	107.8	-90.97	-13,786.0	68.2	970.0	753.0	216.95	4.471		
22,990.0	8,972.1	22,961.0	8,988.4	109.9	108.5	-90.97	-13,876.0	67.5	970.0	751.7	218.31	4.443		
23,000.0	8,972.1	22,971.0	8,988.4	110.0	108.6	-90.97	-13,886.0	67.4	970.0	751.5	218.46	4.440		
23,085.0	8,972.2	23,056.0	8,988.4	110.6	109.2	-90.97	-13,971.0	66.7	970.0	750.2	219.74	4.414		
23,100.0	8,972.2	23,071.0	8,988.4	110.7	109.3	-90.96	-13,986.0	66.6	970.0	750.0	219.96	4.410		
23,180.0	8,972.2	23,151.0	8,988.5	111.3	109.9	-90.96	-14,066.0	65.9	970.0	748.8	221.17	4.386		
23,200.0	8,972.2	23,171.0	8,988.5	111.5	110.1	-90.96	-14,086.0	65.7	970.0	748.5	221.47	4.380		
23,275.0	8,972.3	23,246.0	8,988.5	112.0	110.6	-90.96	-14,161.0	65.1	970.0	747.4	222.60	4.357		
23,300.0	8,972.3	23,271.0	8,988.5	112.2	110.8	-90.96	-14,186.0	64.9	970.0	747.0	222.98	4.350		
23,370.0	8,972.4	23,341.0	8,988.5	112.8	111.4	-90.96	-14,256.0	64.3	970.0	745.9	224.03	4.330		
23,400.0	8,972.4	23,371.0	8,988.6	113.0	111.6	-90.96	-14,286.0	64.1	970.0	745.5	224.49	4.321		
23,465.0	8,972.4	23,436.0	8,988.6	113.5	112.1	-90.96	-14,351.0	63.5	970.0	744.5	225.47	4.302		
23,500.0	8,972.4	23,471.0	8,988.6	113.7	112.3	-90.96	-14,386.0	63.2	970.0	744.0	225.99	4.292		
23,560.0	8,972.5	23,531.0	8,988.6	114.2	112.8	-90.96	-14,446.0	62.8	970.0	743.1	226.90	4.275		
23,600.0	8,972.5	23,571.0	8,988.6	114.5	113.1	-90.96	-14,486.0	62.4	970.0	742.5	227.50	4.264		
23,655.0	8,972.6	23,626.0	8,988.7	114.9	113.5	-90.96	-14,541.0	62.0	970.0	741.6	228.33	4.248		
23,700.0	8,972.6	23,671.0	8,988.7	115.2	113.9	-90.96	-14,586.0	61.6	970.0	741.0	229.01	4.236		
23,750.0	8,972.6	23,721.0	8,988.7	115.6	114.2	-90.96	-14,636.0	61.2	970.0	740.2	229.77	4.222		
23,800.0	8,972.6	23,771.0	8,988.7	116.0	114.6	-90.96	-14,686.0	60.8	970.0	739.5	230.52	4.208		
23,845.0	8,972.7	23,816.0	8,988.8	116.3	115.0	-90.96	-14,731.0	60.4	970.0	738.8	231.20	4.195		
23,900.0	8,972.7	23,871.0	8,988.8	116.7	115.4	-90.96	-14,786.0	59.9	970.0	738.0	232.03	4.180		
23,940.0	8,972.7	23,911.0	8,988.8	117.0	115.7	-90.95	-14,826.0	59.6	970.0	737.3	232.63	4.170		
24,000.0	8,972.8	23,971.0	8,988.8	117.5	116.1	-90.95	-14,886.0	59.1	970.0	736.4	233.54	4.153		
24,035.0	8,972.8	24,006.0	8,988.9	117.7	116.4	-90.95	-14,921.0	58.8	970.0	735.9	234.07	4.144		
24,100.0	8,972.9	24,071.0	8,988.9	118.2	116.9	-90.95	-14,986.0	58.3	970.0	734.9	235.05	4.127		
24,130.0	8,972.9	24,101.0	8,988.9	118.4	117.1	-90.95	-15,016.0	58.0	970.0	734.5	235.50	4.119		
24,193.6	8,972.9	24,164.6	8,988.9	118.9	117.6	-90.95	-15,079.6	57.5	970.0	733.5	236.46	4.102		
24,200.0	8,972.9	24,171.0	8,988.9	119.0	117.7	-90.95	-15,086.0	57.5	970.0	733.4	236.56	4.100		
24,225.0	8,972.9	24,196.0	8,988.9	119.2	117.8	-90.95	-15,111.0	57.3	970.0	733.0	236.93	4.094		
24,300.0	8,973.0	24,271.0	8,989.0	119.7	118.4	-90.95	-15,186.0	56.6	970.0	731.9	238.07	4.074		
24,320.0	8,973.0	24,291.0	8,989.0	119.9	118.6	-90.95	-15,206.0	56.5	970.0	731.6	238.37	4.069		
24,323.6	8,973.0	24,294.6	8,989.0	119.9	118.6	-90.95	-15,209.6	56.4	970.0	731.6	238.42	4.068 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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	0.0	0.0	3.0	3.0	89.05	0.5	30.0	30.0				
95.0	95.0	95.0	95.0	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.971	
100.0	100.0	100.0	100.0	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.967	
190.0	190.0	190.0	190.0	3.1	3.1	89.05	0.5	30.0	30.0	23.8	6.25	4.799	
200.0	200.0	200.0	200.0	3.1	3.1	89.05	0.5	30.0	30.0	23.7	6.29	4.773	
285.0	285.0	285.0	285.0	3.3	3.3	89.05	0.5	30.0	30.0	23.5	6.48	4.628	
300.0	300.0	300.0	300.0	3.3	3.3	89.05	0.5	30.0	30.0	23.5	6.52	4.600	
380.0	380.0	380.0	380.0	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.70	4.477	
400.0	400.0	400.0	400.0	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.75	4.445	
475.0	475.0	475.0	475.0	3.5	3.5	89.05	0.5	30.0	30.0	23.1	6.91	4.340	
500.0	500.0	500.0	500.0	3.5	3.5	89.05	0.5	30.0	30.0	23.0	6.97	4.304	
570.0	570.0	570.0	570.0	3.6	3.6	89.05	0.5	30.0	30.0	22.9	7.12	4.215	
600.0	600.0	600.0	600.0	3.6	3.6	89.05	0.5	30.0	30.0	22.8	7.18	4.176	
665.0	665.0	665.0	665.0	3.7	3.7	89.05	0.5	30.0	30.0	22.7	7.32	4.100	
700.0	700.0	700.0	700.0	3.8	3.8	89.05	0.5	30.0	30.0	22.6	7.39	4.059	
760.0	760.0	760.0	760.0	3.8	3.8	89.05	0.5	30.0	30.0	22.5	7.51	3.994	
800.0	800.0	800.0	800.0	3.9	3.9	89.05	0.5	30.0	30.0	22.4	7.59	3.951	
855.0	855.0	855.0	855.0	4.0	4.0	89.05	0.5	30.0	30.0	22.3	7.70	3.896	
900.0	900.0	900.0	900.0	4.0	4.0	89.05	0.5	30.0	30.0	22.2	7.79	3.851	
950.0	950.0	950.0	950.0	4.1	4.1	89.05	0.5	30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	1,000.0	1,000.0	4.1	4.1	89.05	0.5	30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	89.05	0.5	30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,100.0	1,100.0	4.2	4.2	89.05	0.5	30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,140.0	1,140.0	4.3	4.3	89.05	0.5	30.0	30.0	21.8	8.24	3.640	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	89.05	0.5	30.0	30.0	21.7	8.35	3.592	
1,235.0	1,235.0	1,235.0	1,235.0	4.4	4.4	89.05	0.5	30.0	30.0	21.6	8.41	3.566	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	89.05	0.5	30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,330.0	1,330.0	4.5	4.5	89.05	0.5	30.0	30.0	21.4	8.58	3.495	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,425.0	1,425.0	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.75	3.429	
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 CC	
1,520.0	1,520.0	1,520.1	1,520.1	4.7	4.7	157.38	0.5	29.9	30.0	21.1	8.94	3.357 ES	
1,600.0	1,600.0	1,600.7	1,600.7	4.8	4.9	156.33	1.7	28.7	30.4	21.2	9.19	3.305	
1,615.0	1,615.0	1,615.9	1,615.8	4.9	4.9	155.98	2.1	28.3	30.5	21.2	9.26	3.293	
1,700.0	1,699.8	1,701.5	1,701.3	5.0	5.1	153.22	5.4	24.9	31.6	21.9	9.65	3.270	
1,710.0	1,709.8	1,711.5	1,711.3	5.1	5.1	152.81	5.9	24.4	31.7	22.0	9.70	3.273	
1,800.0	1,799.5	1,802.1	1,801.5	5.3	5.4	148.54	11.6	18.6	33.7	23.6	10.09	3.342	
1,805.0	1,804.4	1,807.1	1,806.6	5.3	5.4	148.28	11.9	18.2	33.9	23.7	10.11	3.348	
1,900.0	1,898.7	1,902.7	1,901.4	5.6	5.7	142.97	20.1	9.7	37.0	26.5	10.49	3.530	
1,995.0	1,992.5	1,997.8	1,995.4	5.9	5.8	137.97	30.2	-0.7	41.6	30.9	10.77	3.865	
2,000.0	1,997.5	2,002.8	2,000.3	5.9	5.8	137.80	30.8	-1.3	41.9	31.1	10.79	3.887	
2,090.0	2,085.8	2,092.5	2,088.9	6.2	6.1	136.21	40.5	-11.4	48.5	37.4	11.17	4.347	
2,100.0	2,095.6	2,102.5	2,098.8	6.2	6.1	136.19	41.6	-12.5	49.4	38.2	11.21	4.407	
2,185.0	2,178.5	2,187.1	2,182.3	6.6	6.3	137.05	50.8	-22.0	57.7	46.1	11.63	4.966	
2,200.1	2,193.2	2,202.1	2,197.2	6.6	6.4	137.34	52.4	-23.7	59.4	47.7	11.71	5.076	
2,280.0	2,270.7	2,281.5	2,275.5	6.9	6.6	138.88	61.1	-32.6	68.5	56.4	12.11	5.656	
2,300.0	2,290.1	2,301.3	2,295.2	6.9	6.7	139.20	63.2	-34.9	70.8	58.5	12.21	5.796	
2,375.0	2,362.9	2,375.8	2,368.7	7.2	6.9	140.24	71.3	-43.3	79.3	66.7	12.60	6.294	
2,400.0	2,387.1	2,400.7	2,393.3	7.2	7.0	140.54	74.0	-46.0	82.1	69.4	12.73	6.453	
2,470.0	2,455.0	2,470.2	2,461.9	7.5	7.2	141.28	81.6	-53.9	90.1	77.0	13.11	6.877	
2,500.0	2,484.1	2,500.0	2,491.4	7.6	7.3	141.56	84.8	-57.2	93.6	80.3	13.27	7.052	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		
2,565.0	2,547.2	2,564.6	2,555.1	7.8	7.5	142.10	91.9	-64.5	101.0	87.4	13.63	7.410		
2,600.0	2,581.2	2,599.3	2,589.5	8.0	7.7	142.36	95.6	-68.4	105.0	91.2	13.83	7.595		
2,660.0	2,639.4	2,658.9	2,648.4	8.2	7.9	142.76	102.1	-75.1	111.9	97.7	14.17	7.896		
2,700.0	2,678.2	2,698.7	2,687.6	8.3	8.0	143.00	106.4	-79.6	116.5	102.1	14.40	8.088		
2,755.0	2,731.6	2,753.3	2,741.6	8.5	8.2	143.30	112.4	-85.7	122.8	108.1	14.72	8.339		
2,800.0	2,775.2	2,798.0	2,785.7	8.7	8.4	143.52	117.3	-90.7	127.9	113.0	14.99	8.536		
2,850.0	2,823.7	2,847.7	2,834.8	8.9	8.6	143.75	122.7	-96.3	133.7	118.4	15.29	8.745		
2,900.0	2,872.3	2,897.3	2,883.8	9.1	8.7	143.96	128.1	-101.9	139.4	123.8	15.59	8.944		
2,945.0	2,915.9	2,942.0	2,928.0	9.3	8.9	144.13	132.9	-106.9	144.6	128.7	15.86	9.115		
3,000.0	2,969.3	2,996.7	2,981.9	9.5	9.1	144.33	138.9	-113.1	150.9	134.7	16.20	9.315		
3,040.0	3,008.1	3,036.4	3,021.2	9.7	9.3	144.46	143.2	-117.6	155.5	139.1	16.45	9.454		
3,100.0	3,066.3	3,096.0	3,080.0	9.9	9.5	144.65	149.7	-124.3	162.4	145.6	16.82	9.654		
3,135.0	3,100.3	3,130.8	3,114.4	10.1	9.6	144.75	153.4	-128.2	166.4	149.4	17.04	9.765		
3,200.0	3,163.3	3,195.3	3,178.1	10.4	9.9	144.93	160.5	-135.4	173.9	156.5	17.46	9.963		
3,230.0	3,192.4	3,225.1	3,207.6	10.5	10.0	145.00	163.7	-138.8	177.4	159.7	17.65	10.051		
3,300.0	3,260.4	3,294.7	3,276.3	10.8	10.3	145.17	171.3	-146.6	185.4	167.3	18.10	10.247		
3,325.0	3,284.6	3,319.5	3,300.8	10.9	10.4	145.23	174.0	-149.4	188.3	170.0	18.26	10.314		
3,400.0	3,357.4	3,394.0	3,374.4	11.2	10.7	145.38	182.1	-157.8	196.9	178.2	18.74	10.507		
3,420.0	3,376.8	3,413.9	3,394.0	11.3	10.7	145.42	184.2	-160.0	199.2	180.4	18.87	10.556		
3,500.0	3,454.4	3,493.3	3,472.5	11.6	11.1	145.57	192.9	-168.9	208.4	189.0	19.40	10.746		
3,515.0	3,469.0	3,508.2	3,487.2	11.7	11.1	145.60	194.5	-170.6	210.2	190.7	19.50	10.780		
3,600.0	3,551.5	3,592.7	3,570.6	12.1	11.5	145.75	203.7	-180.1	219.9	199.9	20.06	10.967		
3,610.0	3,561.2	3,602.6	3,580.4	12.1	11.5	145.76	204.8	-181.2	221.1	201.0	20.12	10.988		
3,700.0	3,648.5	3,692.0	3,668.7	12.5	11.9	145.90	214.5	-191.3	231.5	210.7	20.72	11.170		
3,705.0	3,653.3	3,697.0	3,673.6	12.6	11.9	145.91	215.0	-191.9	232.0	211.3	20.75	11.180		
3,800.0	3,745.5	3,791.3	3,766.8	13.0	12.3	146.04	225.3	-202.5	243.0	221.6	21.39	11.358		
3,895.0	3,837.7	3,885.7	3,860.0	13.4	12.7	146.16	235.6	-213.1	253.9	231.9	22.03	11.524		
3,900.0	3,842.5	3,890.7	3,864.9	13.4	12.7	146.16	236.1	-213.6	254.5	232.4	22.07	11.533		
3,990.0	3,929.9	3,980.1	3,953.2	13.8	13.0	146.27	245.8	-223.7	264.9	242.2	22.68	11.679		
4,000.0	3,939.6	3,990.0	3,963.0	13.9	13.1	146.28	246.9	-224.8	266.0	243.3	22.75	11.695		
4,085.0	4,022.0	4,074.4	4,046.4	14.3	13.4	146.37	256.1	-234.3	275.8	252.5	23.33	11.824		
4,100.0	4,036.6	4,089.3	4,061.1	14.3	13.5	146.39	257.7	-236.0	277.5	254.1	23.43	11.846		
4,180.0	4,114.2	4,168.8	4,139.6	14.7	13.8	146.46	266.4	-244.9	286.7	262.8	23.98	11.956		
4,200.0	4,133.6	4,188.7	4,159.2	14.8	13.9	146.48	268.5	-247.2	289.0	264.9	24.12	11.982		
4,275.0	4,206.4	4,261.6	4,231.3	15.1	14.2	146.59	276.3	-255.2	297.8	273.2	24.63	12.090		
4,300.0	4,230.7	4,285.7	4,255.2	15.3	14.3	146.65	278.7	-257.7	300.9	276.1	24.81	12.128		
4,370.0	4,298.6	4,353.1	4,321.9	15.6	14.6	146.91	285.2	-264.4	309.7	284.4	25.31	12.238		
4,400.0	4,327.7	4,381.9	4,350.5	15.7	14.7	147.05	287.7	-267.0	313.6	288.1	25.53	12.286		
4,465.0	4,390.7	4,444.3	4,412.4	16.0	15.0	147.41	293.0	-272.5	322.4	296.4	26.01	12.395		
4,500.0	4,424.7	4,477.8	4,445.7	16.2	15.1	147.64	295.6	-275.2	327.4	301.1	26.28	12.455		
4,560.0	4,482.9	4,535.2	4,502.8	16.5	15.3	148.08	299.8	-279.5	336.1	309.3	26.75	12.563		
4,600.0	4,521.7	4,573.3	4,540.7	16.6	15.5	148.41	302.4	-282.2	342.1	315.0	27.07	12.638		
4,634.9	4,555.6	4,606.6	4,573.9	16.8	15.6	148.71	304.5	-284.4	347.5	320.2	27.34	12.711		
4,655.0	4,575.1	4,625.7	4,592.9	16.9	15.7	148.90	305.6	-285.5	350.6	323.1	27.50	12.752		
4,700.0	4,618.9	4,668.5	4,635.5	17.1	15.8	149.33	308.0	-288.0	357.6	329.7	27.85	12.841		
4,750.0	4,667.6	4,716.0	4,682.9	17.3	16.0	149.81	310.4	-290.5	365.2	337.0	28.25	12.930		
4,800.0	4,716.3	4,763.4	4,730.3	17.6	16.1	150.28	312.5	-292.7	372.8	344.1	28.64	13.016		
4,845.0	4,760.3	4,806.1	4,772.9	17.8	16.3	150.71	314.2	-294.4	379.5	350.5	28.99	13.089		
4,900.0	4,814.2	4,858.2	4,824.9	18.0	16.5	151.22	316.0	-296.2	387.6	358.1	29.41	13.176		
4,940.0	4,853.5	4,896.1	4,862.8	18.2	16.6	151.59	317.0	-297.3	393.4	363.6	29.72	13.236		
5,000.0	4,912.4	4,952.8	4,919.5	18.5	16.8	152.15	318.3	-298.7	401.9	371.8	30.17	13.324		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		
5,035.0	4,946.9	4,985.9	4,952.6	18.6	16.9	152.48	318.9	-299.2	406.9	376.5	30.42	13.374		
5,100.0	5,010.9	5,047.3	5,013.9	18.9	17.0	153.07	319.6	-300.0	416.0	385.1	30.87	13.474		
5,130.0	5,040.6	5,075.6	5,042.2	19.0	17.0	153.35	319.7	-300.1	420.1	389.0	31.07	13.521		
5,200.0	5,109.8	5,143.1	5,109.8	19.3	17.1	154.00	319.8	-300.2	429.5	398.0	31.52	13.626		
5,225.0	5,134.5	5,167.9	5,134.5	19.4	17.1	154.22	319.8	-300.2	432.8	401.1	31.68	13.661		
5,300.0	5,208.8	5,242.2	5,208.8	19.8	17.1	154.83	319.8	-300.2	441.9	409.7	32.13	13.751		
5,320.0	5,228.7	5,262.0	5,228.7	19.8	17.2	154.98	319.8	-300.2	444.2	411.9	32.25	13.772		
5,400.0	5,308.1	5,341.5	5,308.1	20.2	17.2	155.51	319.8	-300.2	452.7	420.0	32.71	13.841		
5,415.0	5,323.0	5,356.4	5,323.0	20.2	17.2	155.61	319.8	-300.2	454.2	421.4	32.79	13.852		
5,500.0	5,407.6	5,441.0	5,407.6	20.6	17.3	156.08	319.8	-300.2	462.0	428.8	33.25	13.896		
5,510.0	5,417.5	5,450.9	5,417.5	20.6	17.3	156.13	319.8	-300.2	462.9	429.6	33.30	13.900		
5,600.0	5,507.2	5,540.6	5,507.2	20.9	17.3	156.53	319.8	-300.2	469.8	436.0	33.75	13.919		
5,605.0	5,512.2	5,545.6	5,512.2	21.0	17.3	156.55	319.8	-300.2	470.1	436.3	33.77	13.919		
5,700.0	5,607.0	5,640.4	5,607.0	21.3	17.4	156.87	319.8	-300.2	475.9	441.7	34.22	13.910		
5,795.0	5,701.9	5,735.2	5,701.9	21.6	17.4	157.11	319.8	-300.2	480.3	445.7	34.62	13.874		
5,800.0	5,706.9	5,740.2	5,706.9	21.6	17.4	157.12	319.8	-300.2	480.5	445.9	34.64	13.871		
5,890.0	5,796.8	5,830.2	5,796.8	21.9	17.5	157.27	319.8	-300.2	483.3	448.3	34.98	13.814		
5,900.0	5,806.8	5,840.2	5,806.8	21.9	17.5	157.28	319.8	-300.2	483.5	448.5	35.02	13.806		
5,985.0	5,891.8	5,925.2	5,891.8	22.2	17.5	157.35	319.8	-300.2	484.8	449.5	35.29	13.738		
6,000.0	5,906.8	5,940.2	5,906.8	22.2	17.5	157.36	319.8	-300.2	484.9	449.5	35.33	13.723		
6,035.2	5,942.0	5,975.4	5,942.0	22.2	17.5	88.98	319.8	-300.2	485.0	449.6	35.39	13.703		
6,080.0	5,986.8	6,020.2	5,986.8	22.2	17.6	88.98	319.8	-300.2	485.0	449.5	35.43	13.688		
6,100.0	6,006.8	6,040.2	6,006.8	22.2	17.6	88.98	319.8	-300.2	485.0	449.5	35.45	13.681		
6,175.0	6,081.8	6,115.2	6,081.8	22.3	17.6	88.98	319.8	-300.2	485.0	449.4	35.53	13.651		
6,200.0	6,106.8	6,140.2	6,106.8	22.3	17.6	88.98	319.8	-300.2	485.0	449.4	35.55	13.641		
6,270.0	6,176.8	6,210.2	6,176.8	22.3	17.7	88.98	319.8	-300.2	485.0	449.3	35.63	13.613		
6,300.0	6,206.8	6,240.2	6,206.8	22.3	17.7	88.98	319.8	-300.2	485.0	449.3	35.66	13.601		
6,365.0	6,271.8	6,305.2	6,271.8	22.3	17.7	88.98	319.8	-300.2	485.0	449.2	35.73	13.574		
6,400.0	6,306.8	6,340.2	6,306.8	22.4	17.7	88.98	319.8	-300.2	485.0	449.2	35.76	13.560		
6,460.0	6,366.8	6,400.2	6,366.8	22.4	17.8	88.98	319.8	-300.2	485.0	449.1	35.83	13.536		
6,500.0	6,406.8	6,440.2	6,406.8	22.4	17.8	88.98	319.8	-300.2	485.0	449.1	35.87	13.520		
6,555.0	6,461.8	6,495.2	6,461.8	22.4	17.8	88.98	319.8	-300.2	485.0	449.0	35.93	13.499		
6,600.0	6,506.8	6,540.2	6,506.8	22.4	17.9	88.98	319.8	-300.2	485.0	449.0	35.98	13.481		
6,650.0	6,556.8	6,590.2	6,556.8	22.5	17.9	88.98	319.8	-300.2	485.0	448.9	36.03	13.461		
6,700.0	6,606.8	6,640.2	6,606.8	22.5	17.9	88.98	319.8	-300.2	485.0	448.9	36.08	13.441		
6,745.0	6,651.8	6,685.2	6,651.8	22.5	17.9	88.98	319.8	-300.2	485.0	448.8	36.13	13.423		
6,800.0	6,706.8	6,740.2	6,706.8	22.5	18.0	88.98	319.8	-300.2	485.0	448.8	36.19	13.401		
6,840.0	6,746.8	6,780.2	6,746.8	22.5	18.0	88.98	319.8	-300.2	485.0	448.7	36.23	13.385		
6,900.0	6,806.8	6,840.2	6,806.8	22.6	18.0	88.98	319.8	-300.2	485.0	448.7	36.30	13.361		
6,935.0	6,841.8	6,875.2	6,841.8	22.6	18.0	88.98	319.8	-300.2	485.0	448.6	36.33	13.348		
7,000.0	6,906.8	6,940.2	6,906.8	22.6	18.1	88.98	319.8	-300.2	485.0	448.6	36.40	13.322		
7,030.0	6,936.8	6,970.2	6,936.8	22.6	18.1	88.98	319.8	-300.2	485.0	448.5	36.44	13.310		
7,100.0	7,006.8	7,040.2	7,006.8	22.6	18.1	88.98	319.8	-300.2	485.0	448.5	36.51	13.282		
7,125.0	7,031.8	7,065.2	7,031.8	22.6	18.1	88.98	319.8	-300.2	485.0	448.4	36.54	13.273		
7,200.0	7,106.8	7,140.2	7,106.8	22.7	18.2	88.98	319.8	-300.2	485.0	448.4	36.62	13.243		
7,220.0	7,126.8	7,160.2	7,126.8	22.7	18.2	88.98	319.8	-300.2	485.0	448.3	36.64	13.235		
7,300.0	7,206.8	7,240.2	7,206.8	22.7	18.2	88.98	319.8	-300.2	485.0	448.2	36.73	13.204		
7,315.0	7,221.8	7,255.2	7,221.8	22.7	18.3	88.98	319.8	-300.2	485.0	448.2	36.75	13.198		
7,400.0	7,306.8	7,340.2	7,306.8	22.8	18.3	88.98	319.8	-300.2	485.0	448.1	36.84	13.165		
7,410.0	7,316.8	7,350.2	7,316.8	22.8	18.3	88.98	319.8	-300.2	485.0	448.1	36.85	13.161		
7,500.0	7,406.8	7,440.2	7,406.8	22.8	18.4	88.98	319.8	-300.2	485.0	448.0	36.95	13.126		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)					
7,505.0	7,411.8	7,445.2	7,411.8	22.8	18.4	88.98	319.8	-300.2	485.0	448.0	36.95	13.124	
7,600.0	7,506.8	7,540.2	7,506.8	22.8	18.4	88.98	319.8	-300.2	485.0	447.9	37.06	13.087	
7,695.0	7,601.8	7,635.2	7,601.8	22.9	18.5	88.98	319.8	-300.2	485.0	447.8	37.16	13.050	
7,700.0	7,606.8	7,640.2	7,606.8	22.9	18.5	88.98	319.8	-300.2	485.0	447.8	37.17	13.048	
7,790.0	7,696.8	7,730.2	7,696.8	22.9	18.5	88.98	319.8	-300.2	485.0	447.7	37.27	13.013	
7,800.0	7,706.8	7,740.2	7,706.8	22.9	18.5	88.98	319.8	-300.2	485.0	447.7	37.28	13.009	
7,885.0	7,791.8	7,825.2	7,791.8	23.0	18.6	88.98	319.8	-300.2	485.0	447.6	37.37	12.976	
7,900.0	7,806.8	7,840.2	7,806.8	23.0	18.6	88.98	319.8	-300.2	485.0	447.6	37.39	12.970	
7,980.0	7,886.8	7,920.2	7,886.8	23.0	18.6	88.98	319.8	-300.2	485.0	447.5	37.48	12.940	
8,000.0	7,906.8	7,940.2	7,906.8	23.0	18.6	88.98	319.8	-300.2	485.0	447.5	37.50	12.932	
8,075.0	7,981.8	8,015.2	7,981.8	23.0	18.7	88.98	319.8	-300.2	485.0	447.4	37.59	12.903	
8,100.0	8,006.8	8,040.2	8,006.8	23.0	18.7	88.98	319.8	-300.2	485.0	447.4	37.61	12.893	
8,170.0	8,076.8	8,110.2	8,076.8	23.1	18.7	88.98	319.8	-300.2	485.0	447.3	37.69	12.867	
8,200.0	8,106.8	8,140.2	8,106.8	23.1	18.8	88.98	319.8	-300.2	485.0	447.3	37.73	12.855	
8,265.0	8,171.8	8,205.2	8,171.8	23.1	18.8	88.98	319.8	-300.2	485.0	447.2	37.80	12.830	
8,300.0	8,206.8	8,240.2	8,206.8	23.1	18.8	88.98	319.8	-300.2	485.0	447.1	37.84	12.817	
8,360.0	8,266.8	8,300.2	8,266.8	23.2	18.9	88.98	319.8	-300.2	485.0	447.1	37.91	12.794	
8,400.0	8,306.8	8,340.2	8,306.8	23.2	18.9	88.98	319.8	-300.2	485.0	447.0	37.95	12.779	
8,455.0	8,361.8	8,395.2	8,361.8	23.2	18.9	88.98	319.8	-300.2	485.0	447.0	38.01	12.760	
8,483.2	8,390.0	8,423.4	8,390.0	23.2	18.9	88.98	319.8	-300.2	485.0	447.0	38.02	12.755	
8,500.0	8,406.8	8,440.4	8,407.0	23.2	18.9	-91.51	319.7	-300.2	485.0	447.0	38.02	12.755	
8,550.0	8,456.7	8,491.5	8,458.0	23.2	19.0	-91.60	316.8	-300.2	485.0	447.0	38.03	12.752	
8,600.0	8,506.0	8,542.8	8,508.7	23.2	19.0	-91.67	309.2	-300.3	485.0	447.0	38.04	12.749	
8,645.0	8,549.7	8,588.9	8,553.6	23.2	19.0	-91.72	298.6	-300.4	485.0	447.0	38.05	12.746	
8,650.0	8,554.5	8,594.0	8,558.5	23.2	19.0	-91.73	297.2	-300.4	485.0	447.0	38.06	12.745	
8,700.0	8,601.7	8,645.4	8,607.1	23.3	19.1	-91.78	280.7	-300.5	485.0	447.0	38.07	12.740	
8,740.0	8,638.3	8,686.5	8,644.8	23.3	19.1	-91.80	264.4	-300.7	485.1	447.0	38.09	12.736	
8,750.0	8,647.3	8,696.7	8,654.1	23.3	19.1	-91.81	259.9	-300.7	485.1	447.0	38.09	12.734	
8,800.0	8,690.9	8,748.1	8,699.0	23.3	19.2	-91.83	235.0	-300.9	485.1	446.9	38.11	12.726	
8,835.0	8,720.1	8,784.1	8,729.0	23.3	19.2	-91.83	215.2	-301.1	485.1	446.9	38.14	12.720	
8,850.0	8,732.3	8,799.5	8,741.5	23.3	19.2	-91.83	206.2	-301.1	485.1	446.9	38.14	12.716	
8,900.0	8,771.0	8,850.9	8,781.3	23.3	19.3	-91.82	173.7	-301.4	485.1	446.9	38.18	12.704	
8,930.0	8,792.9	8,881.7	8,803.7	23.4	19.3	-91.81	152.5	-301.6	485.1	446.8	38.21	12.695	
8,950.0	8,806.9	8,902.3	8,818.0	23.4	19.3	-91.79	137.7	-301.7	485.1	446.8	38.23	12.689	
9,000.0	8,839.5	8,953.6	8,851.3	23.4	19.4	-91.76	98.7	-302.0	485.0	446.8	38.28	12.670	
9,025.0	8,854.6	8,979.3	8,866.6	23.4	19.4	-91.73	78.1	-302.2	485.0	446.7	38.31	12.659	
9,050.0	8,868.8	9,004.9	8,880.9	23.4	19.4	-91.70	56.8	-302.4	485.0	446.7	38.35	12.648	
9,100.0	8,894.4	9,056.2	8,906.7	23.5	19.5	-91.64	12.5	-302.7	485.0	446.6	38.42	12.623	
9,120.0	8,903.6	9,076.7	8,915.9	23.5	19.5	-91.61	-5.8	-302.9	485.0	446.5	38.46	12.611	
9,150.0	8,916.2	9,107.4	8,928.4	23.5	19.5	-91.56	-33.8	-303.1	485.0	446.5	38.51	12.594	
9,200.0	8,933.9	9,158.5	8,945.8	23.6	19.6	-91.47	-81.9	-303.5	485.0	446.4	38.61	12.561	
9,215.0	8,938.5	9,173.8	8,950.2	23.6	19.6	-91.44	-96.6	-303.6	485.0	446.3	38.64	12.550	
9,250.0	8,947.6	9,209.6	8,958.9	23.6	19.6	-91.37	-131.2	-303.9	485.0	446.2	38.72	12.524	
9,300.0	8,957.0	9,260.6	8,967.5	23.7	19.7	-91.25	-181.5	-304.3	484.9	446.1	38.84	12.484	
9,310.0	8,958.3	9,270.7	8,968.7	23.7	19.7	-91.23	-191.6	-304.4	484.9	446.1	38.87	12.476	
9,350.0	8,962.0	9,311.4	8,971.6	23.7	19.7	-91.13	-232.2	-304.8	484.9	445.9	38.97	12.442	
9,382.7	8,963.0	9,344.4	8,972.0	23.8	19.7	-91.06	-265.2	-305.0	484.9	445.8	39.06	12.414	
9,382.9	8,963.0	9,344.6	8,972.0	23.8	19.7	-91.06	-265.4	-305.0	484.9	445.8	39.06	12.413	
9,400.0	8,963.0	9,361.8	8,972.0	23.8	19.7	-91.06	-282.5	-305.2	484.9	445.8	39.11	12.398	
9,405.0	8,963.0	9,366.8	8,972.0	23.8	19.8	-91.06	-287.5	-305.2	484.9	445.8	39.13	12.394	
9,500.0	8,963.1	9,461.8	8,972.1	23.9	19.9	-91.06	-382.5	-306.0	484.9	445.5	39.44	12.295	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,595.0	8,963.1	9,556.8	8,972.1	24.1	20.0	-91.06	-477.5	-306.8	484.9	445.1	39.80	12.182		
9,600.0	8,963.1	9,561.8	8,972.1	24.1	20.0	-91.06	-482.5	-306.8	484.9	445.1	39.82	12.176		
9,690.0	8,963.2	9,651.8	8,972.2	24.3	20.1	-91.06	-572.5	-307.6	484.9	444.7	40.22	12.056		
9,700.0	8,963.2	9,661.8	8,972.2	24.3	20.1	-91.06	-582.5	-307.7	484.9	444.6	40.27	12.043		
9,785.0	8,963.3	9,746.8	8,972.2	24.5	20.2	-91.06	-667.5	-308.4	484.9	444.2	40.68	11.919		
9,800.0	8,963.3	9,761.8	8,972.3	24.5	20.3	-91.06	-682.5	-308.5	484.9	444.1	40.76	11.896		
9,880.0	8,963.3	9,841.8	8,972.3	24.7	20.4	-91.06	-762.5	-309.1	484.9	443.7	41.20	11.771		
9,900.0	8,963.3	9,861.8	8,972.3	24.7	20.4	-91.06	-782.5	-309.3	484.9	443.6	41.31	11.739		
9,975.0	8,963.4	9,936.8	8,972.4	24.9	20.6	-91.06	-857.5	-309.9	484.9	443.2	41.75	11.614		
10,000.0	8,963.4	9,961.8	8,972.4	25.0	20.6	-91.06	-882.5	-310.1	484.9	443.0	41.90	11.572		
10,070.0	8,963.5	10,031.8	8,972.4	25.1	20.8	-91.06	-952.5	-310.7	484.9	442.6	42.35	11.450		
10,100.0	8,963.5	10,061.8	8,972.4	25.2	20.9	-91.06	-982.5	-311.0	484.9	442.4	42.54	11.398		
10,165.0	8,963.5	10,126.8	8,972.5	25.4	21.0	-91.06	-1,047.5	-311.5	484.9	441.9	42.99	11.280		
10,200.0	8,963.5	10,161.8	8,972.5	25.5	21.1	-91.06	-1,082.5	-311.8	484.9	441.7	43.23	11.217		
10,260.0	8,963.6	10,221.8	8,972.5	25.7	21.3	-91.06	-1,142.5	-312.3	484.9	441.2	43.67	11.105		
10,300.0	8,963.6	10,261.8	8,972.6	25.8	21.4	-91.06	-1,182.5	-312.6	484.9	440.9	43.96	11.030		
10,355.0	8,963.7	10,316.8	8,972.6	26.0	21.5	-91.06	-1,237.5	-313.1	484.9	440.5	44.38	10.926		
10,400.0	8,963.7	10,361.8	8,972.6	26.1	21.7	-91.06	-1,282.5	-313.4	484.9	440.2	44.73	10.841		
10,450.0	8,963.7	10,411.8	8,972.6	26.3	21.8	-91.06	-1,332.5	-313.9	484.9	439.8	45.13	10.744		
10,500.0	8,963.7	10,461.8	8,972.7	26.4	22.0	-91.06	-1,382.5	-314.3	484.9	439.4	45.54	10.648		
10,545.0	8,963.8	10,506.8	8,972.7	26.6	22.1	-91.06	-1,427.5	-314.6	484.9	439.0	45.91	10.561		
10,600.0	8,963.8	10,561.8	8,972.7	26.8	22.3	-91.05	-1,482.5	-315.1	484.9	438.5	46.38	10.455		
10,640.0	8,963.8	10,601.8	8,972.8	26.9	22.5	-91.05	-1,522.5	-315.4	484.9	438.2	46.73	10.377		
10,700.0	8,963.9	10,661.8	8,972.8	27.1	22.7	-91.05	-1,582.5	-315.9	484.9	437.6	47.26	10.260		
10,735.0	8,963.9	10,696.8	8,972.8	27.3	22.8	-91.05	-1,617.5	-316.2	484.9	437.3	47.58	10.192		
10,800.0	8,963.9	10,761.8	8,972.9	27.5	23.1	-91.05	-1,682.4	-316.7	484.9	436.7	48.17	10.066		
10,830.0	8,964.0	10,791.8	8,972.9	27.6	23.2	-91.05	-1,712.4	-317.0	484.9	436.5	48.45	10.008		
10,900.0	8,964.0	10,861.8	8,972.9	27.9	23.5	-91.05	-1,782.4	-317.6	484.9	435.8	49.11	9.873		
10,925.0	8,964.0	10,886.8	8,972.9	28.0	23.6	-91.05	-1,807.4	-317.8	484.9	435.6	49.35	9.825		
11,000.0	8,964.1	10,961.8	8,973.0	28.3	23.9	-91.05	-1,882.4	-318.4	484.9	434.8	50.08	9.682		
11,020.0	8,964.1	10,981.8	8,973.0	28.4	24.0	-91.05	-1,902.4	-318.6	484.9	434.6	50.28	9.644		
11,100.0	8,964.1	11,061.8	8,973.0	28.7	24.4	-91.05	-1,982.4	-319.2	484.9	433.8	51.08	9.493		
11,115.0	8,964.2	11,076.8	8,973.0	28.8	24.4	-91.05	-1,997.4	-319.3	484.9	433.7	51.23	9.465		
11,200.0	8,964.2	11,161.8	8,973.1	29.2	24.8	-91.05	-2,082.4	-320.0	484.9	432.8	52.10	9.307		
11,210.0	8,964.2	11,171.8	8,973.1	29.2	24.9	-91.05	-2,092.4	-320.1	484.9	432.7	52.21	9.289		
11,300.0	8,964.3	11,261.8	8,973.2	29.6	25.3	-91.05	-2,182.4	-320.9	484.9	431.8	53.15	9.124		
11,305.0	8,964.3	11,266.8	8,973.2	29.6	25.3	-91.05	-2,187.4	-320.9	484.9	431.7	53.20	9.115		
11,400.0	8,964.3	11,361.8	8,973.2	30.1	25.8	-91.05	-2,282.4	-321.7	484.9	430.7	54.22	8.944		
11,495.0	8,964.4	11,456.8	8,973.3	30.5	26.3	-91.05	-2,377.4	-322.5	484.9	429.7	55.25	8.776		
11,500.0	8,964.4	11,461.8	8,973.3	30.6	26.4	-91.05	-2,382.4	-322.5	484.9	429.6	55.31	8.768		
11,590.0	8,964.5	11,551.8	8,973.3	31.0	26.8	-91.05	-2,472.4	-323.3	484.9	428.6	56.31	8.612		
11,600.0	8,964.5	11,561.8	8,973.3	31.0	26.9	-91.05	-2,482.4	-323.4	484.9	428.5	56.42	8.595		
11,685.0	8,964.5	11,646.8	8,973.4	31.5	27.4	-91.05	-2,567.4	-324.1	484.9	427.5	57.38	8.451		
11,700.0	8,964.6	11,661.8	8,973.4	31.5	27.4	-91.05	-2,582.4	-324.2	484.9	427.4	57.55	8.426		
11,780.0	8,964.6	11,741.8	8,973.4	31.9	27.9	-91.05	-2,662.4	-324.8	484.9	426.5	58.46	8.294		
11,800.0	8,964.6	11,761.8	8,973.5	32.0	28.0	-91.04	-2,682.4	-325.0	484.9	426.2	58.69	8.262		
11,875.0	8,964.7	11,836.8	8,973.5	32.4	28.4	-91.04	-2,757.4	-325.6	484.9	425.3	59.57	8.141		
11,900.0	8,964.7	11,861.8	8,973.5	32.6	28.6	-91.04	-2,782.4	-325.8	484.9	425.1	59.86	8.101		
11,970.0	8,964.7	11,931.8	8,973.6	32.9	29.0	-91.04	-2,852.4	-326.4	484.9	424.2	60.68	7.991		
12,000.0	8,964.8	11,961.8	8,973.6	33.1	29.2	-91.04	-2,882.4	-326.7	484.9	423.9	61.04	7.945		
12,065.0	8,964.8	12,026.8	8,973.6	33.4	29.6	-91.04	-2,947.4	-327.2	484.9	423.1	61.81	7.845		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured 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)		
12,100.0	8,964.8	12,061.8	8,973.6	33.6	29.8	-91.04	-2,982.4	-327.5	484.9	422.7	62.23	7.792
12,160.0	8,964.9	12,121.8	8,973.7	34.0	30.1	-91.04	-3,042.4	-328.0	484.9	422.0	62.96	7.702
12,200.0	8,964.9	12,161.8	8,973.7	34.2	30.4	-91.04	-3,082.4	-328.3	484.9	421.5	63.44	7.644
12,255.0	8,964.9	12,216.8	8,973.7	34.5	30.7	-91.04	-3,137.4	-328.8	484.9	420.8	64.11	7.564
12,300.0	8,965.0	12,261.8	8,973.8	34.7	31.0	-91.04	-3,182.4	-329.1	484.9	420.3	64.66	7.499
12,350.0	8,965.0	12,311.8	8,973.8	35.0	31.3	-91.04	-3,232.4	-329.5	484.9	419.6	65.28	7.428
12,400.0	8,965.0	12,361.8	8,973.8	35.3	31.6	-91.04	-3,282.4	-330.0	484.9	419.0	65.90	7.359
12,445.0	8,965.0	12,406.8	8,973.8	35.5	31.9	-91.04	-3,327.4	-330.3	484.9	418.5	66.46	7.297
12,500.0	8,965.1	12,461.8	8,973.9	35.9	32.3	-91.04	-3,382.4	-330.8	484.9	417.8	67.14	7.222
12,540.0	8,965.1	12,501.8	8,973.9	36.1	32.5	-91.04	-3,422.4	-331.1	484.9	417.3	67.65	7.168
12,600.0	8,965.2	12,561.8	8,973.9	36.4	32.9	-91.04	-3,482.4	-331.6	484.9	416.5	68.40	7.089
12,635.0	8,965.2	12,596.8	8,974.0	36.6	33.1	-91.04	-3,517.4	-331.9	484.9	416.1	68.84	7.044
12,700.0	8,965.2	12,661.8	8,974.0	37.0	33.5	-91.04	-3,582.4	-332.4	484.9	415.2	69.67	6.960
12,730.0	8,965.2	12,691.8	8,974.0	37.2	33.7	-91.04	-3,612.4	-332.7	484.9	414.9	70.05	6.922
12,800.0	8,965.3	12,761.8	8,974.1	37.6	34.2	-91.04	-3,682.4	-333.3	484.9	414.0	70.95	6.835
12,825.0	8,965.3	12,786.8	8,974.1	37.8	34.4	-91.04	-3,707.4	-333.5	484.9	413.7	71.27	6.804
12,900.0	8,965.4	12,861.8	8,974.1	38.2	34.8	-91.04	-3,782.4	-334.1	484.9	412.7	72.24	6.713
12,920.0	8,965.4	12,881.8	8,974.1	38.3	35.0	-91.04	-3,802.4	-334.3	484.9	412.4	72.50	6.689
13,000.0	8,965.4	12,961.8	8,974.2	38.8	35.5	-91.04	-3,882.4	-334.9	484.9	411.4	73.53	6.594
13,015.0	8,965.4	12,976.8	8,974.2	38.9	35.6	-91.04	-3,897.4	-335.0	484.9	411.2	73.73	6.594
13,100.0	8,965.5	13,061.8	8,974.2	39.4	36.2	-91.03	-3,982.4	-335.7	484.9	410.1	74.84	6.479
13,110.0	8,965.5	13,071.8	8,974.2	39.5	36.2	-91.03	-3,992.4	-335.8	484.9	410.0	74.97	6.468
13,200.0	8,965.6	13,161.8	8,974.3	40.0	36.8	-91.03	-4,082.4	-336.6	484.9	408.8	76.15	6.368
13,205.0	8,965.6	13,166.8	8,974.3	40.1	36.9	-91.03	-4,087.4	-336.6	484.9	408.7	76.22	6.362
13,300.0	8,965.6	13,261.8	8,974.4	40.7	37.5	-91.03	-4,182.4	-337.4	484.9	407.4	77.48	6.259
13,395.0	8,965.7	13,356.8	8,974.4	41.3	38.2	-91.03	-4,277.4	-338.2	484.9	406.2	78.74	6.159
13,400.0	8,965.7	13,361.8	8,974.4	41.3	38.2	-91.03	-4,282.4	-338.2	484.9	406.1	78.81	6.153
13,490.0	8,965.7	13,451.8	8,974.5	41.9	38.8	-91.03	-4,372.4	-339.0	484.9	404.9	80.01	6.061
13,500.0	8,965.8	13,461.8	8,974.5	41.9	38.9	-91.03	-4,382.4	-339.0	484.9	404.8	80.14	6.051
13,585.0	8,965.8	13,546.8	8,974.5	42.5	39.5	-91.03	-4,467.4	-339.7	484.9	403.6	81.28	5.966
13,600.0	8,965.8	13,561.8	8,974.5	42.5	39.6	-91.03	-4,482.4	-339.9	484.9	403.4	81.48	5.951
13,680.0	8,965.9	13,641.8	8,974.6	43.1	40.1	-91.03	-4,562.4	-340.5	484.9	402.4	82.56	5.873
13,700.0	8,965.9	13,661.8	8,974.6	43.2	40.2	-91.03	-4,582.3	-340.7	484.9	402.1	82.83	5.854
13,775.0	8,965.9	13,736.8	8,974.6	43.7	40.8	-91.03	-4,657.3	-341.3	484.9	401.1	83.85	5.783
13,800.0	8,966.0	13,761.8	8,974.7	43.8	40.9	-91.03	-4,682.3	-341.5	484.9	400.7	84.19	5.760
13,870.0	8,966.0	13,831.8	8,974.7	44.3	41.4	-91.03	-4,752.3	-342.1	484.9	399.8	85.14	5.696
13,900.0	8,966.0	13,861.8	8,974.7	44.5	41.6	-91.03	-4,782.3	-342.4	484.9	399.4	85.55	5.668
13,965.0	8,966.1	13,926.8	8,974.8	44.9	42.1	-91.03	-4,847.3	-342.9	484.9	398.5	86.44	5.610
14,000.0	8,966.1	13,961.8	8,974.8	45.1	42.3	-91.03	-4,882.3	-343.2	484.9	398.0	86.92	5.579
14,060.0	8,966.1	14,021.8	8,974.8	45.5	42.7	-91.03	-4,942.3	-343.7	484.9	397.2	87.74	5.527
14,100.0	8,966.2	14,061.8	8,974.8	45.8	43.0	-91.03	-4,982.3	-344.0	484.9	396.6	88.29	5.493
14,155.0	8,966.2	14,116.8	8,974.9	46.1	43.4	-91.03	-5,037.3	-344.5	484.9	395.9	89.05	5.446
14,200.0	8,966.2	14,161.8	8,974.9	46.4	43.7	-91.03	-5,082.3	-344.8	484.9	395.3	89.67	5.408
14,250.0	8,966.3	14,211.8	8,974.9	46.8	44.1	-91.03	-5,132.3	-345.2	484.9	394.6	90.36	5.367
14,300.0	8,966.3	14,261.8	8,975.0	47.1	44.4	-91.02	-5,182.3	-345.7	484.9	393.9	91.05	5.326
14,345.0	8,966.3	14,306.8	8,975.0	47.4	44.7	-91.02	-5,227.3	-346.0	484.9	393.3	91.67	5.290
14,400.0	8,966.4	14,361.8	8,975.0	47.8	45.1	-91.02	-5,282.3	-346.5	484.9	392.5	92.43	5.246
14,440.0	8,966.4	14,401.8	8,975.0	48.0	45.4	-91.02	-5,322.3	-346.8	484.9	391.9	92.99	5.215
14,500.0	8,966.4	14,461.8	8,975.1	48.4	45.8	-91.02	-5,382.3	-347.3	484.9	391.1	93.82	5.169
14,535.0	8,966.4	14,496.8	8,975.1	48.7	46.1	-91.02	-5,417.3	-347.6	484.9	390.6	94.31	5.142
14,600.0	8,966.5	14,561.8	8,975.1	49.1	46.6	-91.02	-5,482.3	-348.1	484.9	389.7	95.22	5.093

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
14,630.0	8,966.5	14,591.8	8,975.2	49.3	46.8	-91.02	-5,512.3	-348.4	484.9	389.3	95.64	5.071	
14,700.0	8,966.6	14,661.8	8,975.2	49.8	47.3	-91.02	-5,582.3	-349.0	484.9	388.3	96.62	5.019	
14,725.0	8,966.6	14,686.8	8,975.2	50.0	47.4	-91.02	-5,607.3	-349.2	484.9	388.0	96.97	5.001	
14,800.0	8,966.6	14,761.8	8,975.3	50.5	48.0	-91.02	-5,682.3	-349.8	484.9	386.9	98.02	4.947	
14,820.0	8,966.6	14,781.8	8,975.3	50.6	48.1	-91.02	-5,702.3	-350.0	484.9	386.6	98.30	4.933	
14,900.0	8,966.7	14,861.8	8,975.3	51.1	48.7	-91.02	-5,782.3	-350.6	484.9	385.5	99.43	4.877	
14,915.0	8,966.7	14,876.8	8,975.3	51.2	48.8	-91.02	-5,797.3	-350.7	484.9	385.3	99.64	4.867	
15,000.0	8,966.8	14,961.8	8,975.4	51.8	49.4	-91.02	-5,882.3	-351.4	484.9	384.1	100.84	4.809	
15,010.0	8,966.8	14,971.8	8,975.4	51.9	49.5	-91.02	-5,892.3	-351.5	484.9	384.0	100.98	4.802	
15,100.0	8,966.8	15,061.8	8,975.4	52.5	50.1	-91.02	-5,982.3	-352.3	484.9	382.7	102.25	4.743	
15,105.0	8,966.8	15,066.8	8,975.4	52.5	50.2	-91.02	-5,987.3	-352.3	484.9	382.6	102.32	4.739	
15,200.0	8,966.9	15,161.8	8,975.5	53.2	50.8	-91.02	-6,082.3	-353.1	484.9	381.3	103.67	4.678	
15,295.0	8,967.0	15,256.8	8,975.6	53.8	51.5	-91.02	-6,177.3	-353.9	484.9	379.9	105.01	4.618	
15,300.0	8,967.0	15,261.8	8,975.6	53.9	51.6	-91.02	-6,182.3	-353.9	484.9	379.9	105.08	4.615	
15,390.0	8,967.0	15,351.8	8,975.6	54.5	52.2	-91.02	-6,272.3	-354.7	484.9	378.6	106.36	4.559	
15,400.0	8,967.0	15,361.8	8,975.6	54.6	52.3	-91.02	-6,282.3	-354.7	484.9	378.4	106.51	4.553	
15,485.0	8,967.1	15,446.8	8,975.7	55.2	52.9	-91.02	-6,367.3	-355.4	484.9	377.2	107.72	4.502	
15,500.0	8,967.1	15,461.8	8,975.7	55.3	53.0	-91.02	-6,382.3	-355.6	484.9	377.0	107.93	4.493	
15,580.0	8,967.1	15,541.8	8,975.7	55.8	53.6	-91.01	-6,462.3	-356.2	484.9	375.9	109.07	4.446	
15,600.0	8,967.2	15,561.8	8,975.7	56.0	53.7	-91.01	-6,482.3	-356.4	484.9	375.6	109.36	4.434	
15,675.0	8,967.2	15,636.8	8,975.8	56.5	54.3	-91.01	-6,557.3	-357.0	484.9	374.5	110.43	4.391	
15,700.0	8,967.2	15,661.8	8,975.8	56.7	54.5	-91.01	-6,582.3	-357.2	484.9	374.1	110.79	4.377	
15,770.0	8,967.3	15,731.8	8,975.8	57.1	55.0	-91.01	-6,652.3	-357.8	484.9	373.1	111.79	4.338	
15,800.0	8,967.3	15,761.8	8,975.9	57.3	55.2	-91.01	-6,682.3	-358.0	484.9	372.7	112.22	4.321	
15,865.0	8,967.3	15,826.8	8,975.9	57.8	55.7	-91.01	-6,747.3	-358.6	484.9	371.8	113.16	4.286	
15,900.0	8,967.4	15,861.8	8,975.9	58.0	55.9	-91.01	-6,782.3	-358.9	484.9	371.3	113.66	4.267	
15,960.0	8,967.4	15,921.8	8,976.0	58.5	56.4	-91.01	-6,842.3	-359.4	484.9	370.4	114.52	4.234	
16,000.0	8,967.4	15,961.8	8,976.0	58.7	56.7	-91.01	-6,882.3	-359.7	484.9	369.8	115.10	4.213	
16,055.0	8,967.5	16,016.8	8,976.0	59.1	57.1	-91.01	-6,937.3	-360.2	484.9	369.1	115.89	4.184	
16,100.0	8,967.5	16,061.8	8,976.0	59.5	57.4	-91.01	-6,982.3	-360.5	484.9	368.4	116.54	4.161	
16,150.0	8,967.5	16,111.8	8,976.1	59.8	57.7	-91.01	-7,032.3	-360.9	484.9	367.7	117.26	4.136	
16,200.0	8,967.6	16,161.8	8,976.1	60.2	58.1	-91.01	-7,082.3	-361.4	484.9	367.0	117.98	4.110	
16,245.0	8,967.6	16,206.8	8,976.1	60.5	58.4	-91.01	-7,127.3	-361.7	484.9	366.3	118.63	4.088	
16,300.0	8,967.6	16,261.8	8,976.2	60.9	58.8	-91.01	-7,182.3	-362.2	484.9	365.5	119.43	4.061	
16,340.0	8,967.7	16,301.8	8,976.2	61.1	59.1	-91.01	-7,222.3	-362.5	484.9	364.9	120.00	4.041	
16,400.0	8,967.7	16,361.8	8,976.2	61.6	59.6	-91.01	-7,282.3	-363.0	484.9	364.1	120.87	4.012	
16,435.0	8,967.7	16,396.8	8,976.2	61.8	59.8	-91.01	-7,317.3	-363.3	484.9	363.6	121.38	3.995	
16,500.0	8,967.8	16,461.8	8,976.3	62.3	60.3	-91.01	-7,382.3	-363.8	484.9	362.6	122.32	3.965	
16,530.0	8,967.8	16,491.8	8,976.3	62.5	60.5	-91.01	-7,412.3	-364.1	484.9	362.2	122.76	3.950	
16,600.0	8,967.8	16,561.8	8,976.3	63.0	61.0	-91.01	-7,482.3	-364.7	484.9	361.2	123.77	3.918	
16,625.0	8,967.8	16,586.8	8,976.4	63.2	61.2	-91.01	-7,507.2	-364.9	484.9	360.8	124.13	3.907	
16,700.0	8,967.9	16,661.8	8,976.4	63.7	61.8	-91.01	-7,582.2	-365.5	484.9	359.7	125.22	3.873	
16,720.0	8,967.9	16,681.8	8,976.4	63.8	61.9	-91.01	-7,602.2	-365.6	484.9	359.4	125.52	3.864	
16,800.0	8,968.0	16,761.8	8,976.5	64.4	62.5	-91.00	-7,682.2	-366.3	484.9	358.3	126.68	3.828	
16,815.0	8,968.0	16,776.8	8,976.5	64.5	62.6	-91.00	-7,697.2	-366.4	484.9	358.0	126.90	3.822	
16,900.0	8,968.0	16,861.8	8,976.5	65.1	63.3	-91.00	-7,782.2	-367.1	484.9	356.8	128.13	3.785	
16,910.0	8,968.0	16,871.8	8,976.5	65.2	63.3	-91.00	-7,792.2	-367.2	484.9	356.7	128.28	3.780	
17,000.0	8,968.1	16,961.8	8,976.6	65.8	64.0	-91.00	-7,882.2	-368.0	484.9	355.4	129.59	3.742	
17,005.0	8,968.1	16,966.8	8,976.6	65.9	64.0	-91.00	-7,887.2	-368.0	484.9	355.3	129.66	3.740	
17,100.0	8,968.2	17,061.8	8,976.6	66.6	64.7	-91.00	-7,982.2	-368.8	484.9	353.9	131.05	3.700	
17,195.0	8,968.2	17,156.8	8,976.7	67.2	65.4	-91.00	-8,077.2	-369.6	484.9	352.5	132.44	3.662	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
17,200.0	8,968.2	17,161.8	8,976.7	67.3	65.5	-91.00	-91.00	-8,082.2	-369.6	484.9	352.4	132.51	3.660
17,290.0	8,968.3	17,251.8	8,976.8	67.9	66.1	-91.00	-91.00	-8,172.2	-370.4	484.9	351.1	133.83	3.624
17,300.0	8,968.3	17,261.8	8,976.8	68.0	66.2	-91.00	-91.00	-8,182.2	-370.4	484.9	351.0	133.97	3.620
17,385.0	8,968.4	17,346.8	8,976.8	68.6	66.8	-91.00	-91.00	-8,267.2	-371.1	484.9	349.7	135.22	3.586
17,400.0	8,968.4	17,361.8	8,976.8	68.7	66.9	-91.00	-91.00	-8,282.2	-371.3	484.9	349.5	135.44	3.581
17,480.0	8,968.4	17,441.8	8,976.9	69.3	67.5	-91.00	-91.00	-8,362.2	-371.9	484.9	348.3	136.61	3.550
17,500.0	8,968.4	17,461.8	8,976.9	69.4	67.7	-91.00	-91.00	-8,382.2	-372.1	484.9	348.0	136.90	3.542
17,575.0	8,968.5	17,536.8	8,976.9	70.0	68.2	-91.00	-91.00	-8,457.2	-372.7	485.0	346.9	138.00	3.514
17,600.0	8,968.5	17,561.8	8,976.9	70.2	68.4	-91.00	-91.00	-8,482.2	-372.9	485.0	346.6	138.37	3.505
17,670.0	8,968.5	17,631.8	8,977.0	70.7	68.9	-91.00	-91.00	-8,552.2	-373.5	485.0	345.6	139.40	3.479
17,700.0	8,968.6	17,661.8	8,977.0	70.9	69.2	-91.00	-91.00	-8,582.2	-373.7	485.0	345.1	139.84	3.468
17,765.0	8,968.6	17,726.8	8,977.0	71.3	69.7	-91.00	-91.00	-8,647.2	-374.3	485.0	344.2	140.79	3.444
17,800.0	8,968.6	17,761.8	8,977.1	71.6	69.9	-91.00	-91.00	-8,682.2	-374.6	485.0	343.6	141.31	3.432
17,860.0	8,968.7	17,821.8	8,977.1	72.0	70.4	-91.00	-91.00	-8,742.2	-375.1	485.0	342.8	142.19	3.411
17,900.0	8,968.7	17,861.8	8,977.1	72.3	70.7	-91.00	-91.00	-8,782.2	-375.4	485.0	342.2	142.78	3.397
17,955.0	8,968.7	17,916.8	8,977.2	72.7	71.1	-91.00	-91.00	-8,837.2	-375.9	485.0	341.4	143.59	3.377
18,000.0	8,968.8	17,961.8	8,977.2	73.1	71.4	-91.00	-91.00	-8,882.2	-376.2	485.0	340.7	144.25	3.362
18,050.0	8,968.8	18,011.8	8,977.2	73.4	71.8	-90.99	-90.99	-8,932.2	-376.6	485.0	340.0	144.98	3.345
18,100.0	8,968.8	18,061.8	8,977.2	73.8	72.1	-90.99	-90.99	-8,982.2	-377.1	485.0	339.2	145.72	3.328
18,145.0	8,968.9	18,106.8	8,977.3	74.1	72.5	-90.99	-90.99	-9,027.2	-377.4	485.0	338.6	146.38	3.313
18,200.0	8,968.9	18,161.8	8,977.3	74.5	72.9	-90.99	-90.99	-9,082.2	-377.9	485.0	337.8	147.19	3.295
18,240.0	8,968.9	18,201.8	8,977.3	74.8	73.2	-90.99	-90.99	-9,122.2	-378.2	485.0	337.2	147.78	3.282
18,300.0	8,969.0	18,261.8	8,977.4	75.2	73.6	-90.99	-90.99	-9,182.2	-378.7	485.0	336.3	148.67	3.262
18,335.0	8,969.0	18,296.8	8,977.4	75.5	73.9	-90.99	-90.99	-9,217.2	-379.0	485.0	335.8	149.19	3.251
18,400.0	8,969.0	18,361.8	8,977.4	76.0	74.4	-90.99	-90.99	-9,282.2	-379.5	485.0	334.8	150.14	3.230
18,430.0	8,969.1	18,391.8	8,977.4	76.2	74.6	-90.99	-90.99	-9,312.2	-379.8	485.0	334.4	150.59	3.220
18,500.0	8,969.1	18,461.8	8,977.5	76.7	75.1	-90.99	-90.99	-9,382.2	-380.4	485.0	333.3	151.62	3.198
18,525.0	8,969.1	18,486.8	8,977.5	76.9	75.3	-90.99	-90.99	-9,407.2	-380.6	485.0	333.0	151.99	3.191
18,600.0	8,969.2	18,561.8	8,977.6	77.4	75.9	-90.99	-90.99	-9,482.2	-381.2	485.0	331.9	153.10	3.168
18,620.0	8,969.2	18,581.8	8,977.6	77.6	76.0	-90.99	-90.99	-9,502.2	-381.3	485.0	331.6	153.40	3.161
18,700.0	8,969.2	18,661.8	8,977.6	78.1	76.6	-90.99	-90.99	-9,582.2	-382.0	485.0	330.4	154.58	3.137
18,715.0	8,969.2	18,676.8	8,977.6	78.3	76.7	-90.99	-90.99	-9,597.2	-382.1	485.0	330.2	154.80	3.133
18,800.0	8,969.3	18,761.8	8,977.7	78.9	77.4	-90.99	-90.99	-9,682.2	-382.8	485.0	328.9	156.06	3.108
18,810.0	8,969.3	18,771.8	8,977.7	79.0	77.4	-90.99	-90.99	-9,692.2	-382.9	485.0	328.8	156.21	3.105
18,900.0	8,969.4	18,861.8	8,977.7	79.6	78.1	-90.99	-90.99	-9,782.2	-383.7	485.0	327.4	157.54	3.078
18,905.0	8,969.4	18,866.8	8,977.7	79.6	78.1	-90.99	-90.99	-9,787.2	-383.7	485.0	327.3	157.61	3.077
19,000.0	8,969.4	18,961.8	8,977.8	80.3	78.8	-90.99	-90.99	-9,882.2	-384.5	485.0	325.9	159.02	3.050
19,095.0	8,969.5	19,056.8	8,977.8	81.0	79.6	-90.99	-90.99	-9,977.2	-385.3	485.0	324.5	160.43	3.023
19,100.0	8,969.5	19,061.8	8,977.9	81.1	79.6	-90.99	-90.99	-9,982.2	-385.3	485.0	324.5	160.50	3.021
19,190.0	8,969.6	19,151.8	8,977.9	81.7	80.3	-90.99	-90.99	-10,072.2	-386.1	485.0	323.1	161.84	2.997
19,200.0	8,969.6	19,161.8	8,977.9	81.8	80.3	-90.99	-90.99	-10,082.2	-386.1	485.0	323.0	161.99	2.994
19,285.0	8,969.6	19,246.8	8,978.0	82.4	81.0	-90.98	-90.98	-10,167.2	-386.8	485.0	321.7	163.25	2.971
19,300.0	8,969.6	19,261.8	8,978.0	82.5	81.1	-90.98	-90.98	-10,182.2	-387.0	485.0	321.5	163.47	2.967
19,380.0	8,969.7	19,341.8	8,978.0	83.1	81.7	-90.98	-90.98	-10,262.2	-387.6	485.0	320.3	164.66	2.945
19,400.0	8,969.7	19,361.8	8,978.0	83.3	81.8	-90.98	-90.98	-10,282.2	-387.8	485.0	320.0	164.96	2.940
19,475.0	8,969.8	19,436.8	8,978.1	83.8	82.4	-90.98	-90.98	-10,357.2	-388.4	485.0	318.9	166.07	2.920
19,500.0	8,969.8	19,461.8	8,978.1	84.0	82.6	-90.98	-90.98	-10,382.2	-388.6	485.0	318.5	166.44	2.914
19,570.0	8,969.8	19,531.8	8,978.1	84.5	83.1	-90.98	-90.98	-10,452.1	-389.2	485.0	317.5	167.48	2.896
19,600.0	8,969.8	19,561.8	8,978.2	84.7	83.3	-90.98	-90.98	-10,482.1	-389.4	485.0	317.0	167.93	2.888
19,665.0	8,969.9	19,626.8	8,978.2	85.2	83.8	-90.98	-90.98	-10,547.1	-390.0	485.0	316.1	168.89	2.871
19,700.0	8,969.9	19,661.8	8,978.2	85.5	84.1	-90.98	-90.98	-10,582.1	-390.3	485.0	315.5	169.42	2.863

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
19,760.0	8,969.9	19,721.8	8,978.2	85.9	84.5	-90.98	-10,642.1	-390.8	485.0	314.7	170.31	2.848	
19,800.0	8,970.0	19,761.8	8,978.3	86.2	84.8	-90.98	-10,682.1	-391.1	485.0	314.1	170.90	2.838	
19,855.0	8,970.0	19,816.8	8,978.3	86.6	85.2	-90.98	-10,737.1	-391.5	485.0	313.2	171.72	2.824	
19,900.0	8,970.0	19,861.8	8,978.3	87.0	85.6	-90.98	-10,782.1	-391.9	485.0	312.6	172.39	2.813	
19,950.0	8,970.1	19,911.8	8,978.4	87.3	86.0	-90.98	-10,832.1	-392.3	485.0	311.8	173.14	2.801	
20,000.0	8,970.1	19,961.8	8,978.4	87.7	86.3	-90.98	-10,882.1	-392.7	485.0	311.1	173.88	2.789	
20,045.0	8,970.1	20,006.8	8,978.4	88.0	86.7	-90.98	-10,927.1	-393.1	485.0	310.4	174.55	2.778	
20,100.0	8,970.2	20,061.8	8,978.5	88.4	87.1	-90.98	-10,982.1	-393.6	485.0	309.6	175.37	2.765	
20,140.0	8,970.2	20,101.8	8,978.5	88.7	87.4	-90.98	-11,022.1	-393.9	485.0	309.0	175.97	2.756	
20,200.0	8,970.2	20,161.8	8,978.5	89.2	87.8	-90.98	-11,082.1	-394.4	485.0	308.1	176.86	2.742	
20,235.0	8,970.3	20,196.8	8,978.5	89.4	88.1	-90.98	-11,117.1	-394.7	485.0	307.6	177.38	2.734	
20,300.0	8,970.3	20,261.8	8,978.6	89.9	88.6	-90.98	-11,182.1	-395.2	485.0	306.6	178.35	2.719	
20,330.0	8,970.3	20,291.8	8,978.6	90.1	88.8	-90.98	-11,212.1	-395.5	485.0	306.2	178.80	2.712	
20,400.0	8,970.4	20,361.8	8,978.6	90.6	89.3	-90.98	-11,282.1	-396.1	485.0	305.1	179.85	2.697	
20,425.0	8,970.4	20,386.8	8,978.6	90.8	89.5	-90.98	-11,307.1	-396.3	485.0	304.7	180.22	2.691	
20,500.0	8,970.4	20,461.8	8,978.7	91.4	90.1	-90.97	-11,382.1	-396.9	485.0	303.6	181.34	2.674	
20,520.0	8,970.5	20,481.8	8,978.7	91.5	90.2	-90.97	-11,402.1	-397.0	485.0	303.3	181.64	2.670	
20,600.0	8,970.5	20,561.8	8,978.8	92.1	90.8	-90.97	-11,482.1	-397.7	485.0	302.1	182.83	2.653	
20,615.0	8,970.5	20,576.8	8,978.8	92.2	91.0	-90.97	-11,497.1	-397.8	485.0	301.9	183.06	2.649	
20,700.0	8,970.6	20,661.8	8,978.8	92.9	91.6	-90.97	-11,582.1	-398.5	485.0	300.6	184.32	2.631	
20,710.0	8,970.6	20,671.8	8,978.8	92.9	91.7	-90.97	-11,592.1	-398.6	485.0	300.5	184.47	2.629	
20,800.0	8,970.6	20,761.8	8,978.9	93.6	92.3	-90.97	-11,682.1	-399.4	485.0	299.2	185.82	2.610	
20,805.0	8,970.6	20,766.8	8,978.9	93.6	92.4	-90.97	-11,687.1	-399.4	485.0	299.1	185.89	2.609	
20,900.0	8,970.7	20,861.8	8,978.9	94.3	93.1	-90.97	-11,782.1	-400.2	485.0	297.7	187.31	2.589	
20,995.0	8,970.8	20,956.8	8,979.0	95.1	93.8	-90.97	-11,877.1	-401.0	485.0	296.2	188.73	2.570	
21,000.0	8,970.8	20,961.8	8,979.0	95.1	93.8	-90.97	-11,882.1	-401.0	485.0	296.2	188.81	2.569	
21,090.0	8,970.8	21,051.8	8,979.0	95.8	94.5	-90.97	-11,972.1	-401.8	485.0	294.8	190.16	2.550	
21,100.0	8,970.8	21,061.8	8,979.1	95.8	94.6	-90.97	-11,982.1	-401.8	485.0	294.7	190.31	2.548	
21,185.0	8,970.9	21,146.8	8,979.1	96.5	95.2	-90.97	-12,067.1	-402.5	485.0	293.4	191.58	2.531	
21,200.0	8,970.9	21,161.8	8,979.1	96.6	95.4	-90.97	-12,082.1	-402.7	485.0	293.2	191.80	2.529	
21,280.0	8,971.0	21,241.8	8,979.2	97.2	96.0	-90.97	-12,162.1	-403.3	485.0	292.0	193.00	2.513	
21,300.0	8,971.0	21,261.8	8,979.2	97.3	96.1	-90.97	-12,182.1	-403.5	485.0	291.7	193.30	2.509	
21,375.0	8,971.0	21,336.8	8,979.2	97.9	96.7	-90.97	-12,257.1	-404.1	485.0	290.6	194.42	2.494	
21,400.0	8,971.0	21,361.8	8,979.2	98.1	96.9	-90.97	-12,282.1	-404.3	485.0	290.2	194.80	2.490	
21,470.0	8,971.1	21,431.8	8,979.3	98.6	97.4	-90.97	-12,352.1	-404.9	485.0	289.1	195.84	2.476	
21,500.0	8,971.1	21,461.8	8,979.3	98.8	97.6	-90.97	-12,382.1	-405.1	485.0	288.7	196.29	2.471	
21,565.0	8,971.2	21,526.8	8,979.3	99.3	98.1	-90.97	-12,447.1	-405.7	485.0	287.7	197.27	2.458	
21,600.0	8,971.2	21,561.8	8,979.4	99.5	98.4	-90.97	-12,482.1	-406.0	485.0	287.2	197.79	2.452	
21,660.0	8,971.2	21,621.8	8,979.4	100.0	98.8	-90.97	-12,542.1	-406.5	485.0	286.3	198.69	2.441	
21,700.0	8,971.2	21,661.8	8,979.4	100.3	99.1	-90.97	-12,582.1	-406.8	485.0	285.7	199.29	2.434	
21,755.0	8,971.3	21,716.8	8,979.4	100.7	99.5	-90.96	-12,637.1	-407.2	485.0	284.9	200.12	2.423	
21,800.0	8,971.3	21,761.8	8,979.5	101.0	99.9	-90.96	-12,682.1	-407.6	485.0	284.2	200.79	2.415	
21,850.0	8,971.3	21,811.8	8,979.5	101.4	100.2	-90.96	-12,732.1	-408.0	485.0	283.4	201.54	2.406	
21,900.0	8,971.4	21,861.8	8,979.5	101.8	100.6	-90.96	-12,782.1	-408.4	485.0	282.7	202.29	2.397	
21,945.0	8,971.4	21,906.8	8,979.6	102.1	101.0	-90.96	-12,827.1	-408.8	485.0	282.0	202.96	2.389	
22,000.0	8,971.4	21,961.8	8,979.6	102.5	101.4	-90.96	-12,882.1	-409.3	485.0	281.2	203.79	2.380	
22,040.0	8,971.5	22,001.8	8,979.6	102.8	101.7	-90.96	-12,922.1	-409.6	485.0	280.6	204.39	2.373	
22,100.0	8,971.5	22,061.8	8,979.7	103.3	102.1	-90.96	-12,982.1	-410.1	485.0	279.7	205.29	2.362	
22,135.0	8,971.5	22,096.8	8,979.7	103.5	102.4	-90.96	-13,017.1	-410.4	485.0	279.2	205.82	2.356	
22,200.0	8,971.6	22,161.8	8,979.7	104.0	102.9	-90.96	-13,082.1	-410.9	485.0	278.2	206.79	2.345	
22,230.0	8,971.6	22,191.8	8,979.7	104.2	103.1	-90.96	-13,112.1	-411.2	485.0	277.7	207.24	2.340	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: Reference				0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS				Rule Assigned:				Offset Well Error:	3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
22,300.0	8,971.6	22,261.8	8,979.8	104.8	103.6	-90.96	-13,182.1	-411.7	485.0	276.7	208.29	2.328		
22,325.0	8,971.7	22,286.8	8,979.8	104.9	103.8	-90.96	-13,207.1	-412.0	485.0	276.3	208.67	2.312		
22,400.0	8,971.7	22,361.8	8,979.8	105.5	104.4	-90.96	-13,282.1	-412.6	485.0	275.2	209.79	2.324		
22,420.0	8,971.7	22,381.8	8,979.8	105.7	104.5	-90.96	-13,302.1	-412.7	485.0	274.9	210.09	2.308		
22,500.0	8,971.8	22,461.8	8,979.9	106.3	105.1	-90.96	-13,382.0	-413.4	485.0	273.7	211.30	2.295		
22,515.0	8,971.8	22,476.8	8,979.9	106.4	105.3	-90.96	-13,397.0	-413.5	485.0	273.5	211.52	2.293		
22,600.0	8,971.8	22,561.8	8,980.0	107.0	105.9	-90.96	-13,482.0	-414.2	485.0	272.2	212.80	2.279		
22,610.0	8,971.9	22,571.8	8,980.0	107.1	106.0	-90.96	-13,492.0	-414.3	485.0	272.0	212.95	2.277		
22,700.0	8,971.9	22,661.8	8,980.0	107.7	106.7	-90.96	-13,582.0	-415.1	485.0	270.7	214.30	2.263		
22,705.0	8,971.9	22,666.8	8,980.0	107.8	106.7	-90.96	-13,587.0	-415.1	485.0	270.6	214.38	2.262		
22,800.0	8,972.0	22,761.8	8,980.1	108.5	107.4	-90.96	-13,682.0	-415.9	485.0	269.2	215.80	2.247		
22,895.0	8,972.0	22,856.8	8,980.1	109.2	108.1	-90.96	-13,777.0	-416.7	485.0	267.8	217.23	2.233		
22,900.0	8,972.0	22,861.8	8,980.1	109.2	108.2	-90.96	-13,782.0	-416.7	485.0	267.7	217.31	2.232		
22,990.0	8,972.1	22,951.8	8,980.2	109.9	108.8	-90.95	-13,872.0	-417.4	485.0	266.3	218.66	2.218		
23,000.0	8,972.1	22,961.8	8,980.2	110.0	108.9	-90.95	-13,882.0	-417.5	485.0	266.2	218.81	2.216		
23,085.0	8,972.2	23,046.8	8,980.2	110.6	109.6	-90.95	-13,967.0	-418.2	485.0	264.9	220.09	2.204		
23,100.0	8,972.2	23,061.8	8,980.3	110.7	109.7	-90.95	-13,982.0	-418.4	485.0	264.7	220.32	2.201		
23,180.0	8,972.2	23,141.8	8,980.3	111.3	110.3	-90.95	-14,062.0	-419.0	485.0	263.5	221.52	2.189		
23,200.0	8,972.2	23,161.8	8,980.3	111.5	110.4	-90.95	-14,082.0	-419.2	485.0	263.2	221.82	2.186		
23,275.0	8,972.3	23,236.8	8,980.4	112.0	111.0	-90.95	-14,157.0	-419.8	485.0	262.0	222.95	2.175		
23,300.0	8,972.3	23,261.8	8,980.4	112.2	111.2	-90.95	-14,182.0	-420.0	485.0	261.7	223.32	2.172		
23,370.0	8,972.4	23,331.8	8,980.4	112.8	111.7	-90.95	-14,252.0	-420.6	485.0	260.6	224.38	2.161		
23,400.0	8,972.4	23,361.8	8,980.4	113.0	111.9	-90.95	-14,282.0	-420.8	485.0	260.2	224.83	2.157		
23,465.0	8,972.4	23,426.8	8,980.5	113.5	112.4	-90.95	-14,347.0	-421.4	485.0	259.2	225.81	2.148		
23,500.0	8,972.4	23,461.8	8,980.5	113.7	112.7	-90.95	-14,382.0	-421.7	485.0	258.7	226.34	2.143		
23,560.0	8,972.5	23,521.8	8,980.5	114.2	113.2	-90.95	-14,442.0	-422.2	485.0	257.7	227.24	2.134		
23,600.0	8,972.5	23,561.8	8,980.6	114.5	113.5	-90.95	-14,482.0	-422.5	485.0	257.1	227.84	2.129		
23,655.0	8,972.6	23,616.8	8,980.6	114.9	113.9	-90.95	-14,537.0	-422.9	485.0	256.3	228.67	2.121		
23,700.0	8,972.6	23,661.8	8,980.6	115.2	114.2	-90.95	-14,582.0	-423.3	485.0	255.6	229.35	2.115		
23,750.0	8,972.6	23,711.8	8,980.6	115.6	114.6	-90.95	-14,632.0	-423.7	485.0	254.9	230.10	2.108		
23,800.0	8,972.6	23,761.8	8,980.7	116.0	115.0	-90.95	-14,682.0	-424.1	485.0	254.1	230.85	2.101		
23,845.0	8,972.7	23,806.8	8,980.7	116.3	115.3	-90.95	-14,727.0	-424.5	485.0	253.5	231.53	2.095		
23,900.0	8,972.7	23,861.8	8,980.7	116.7	115.7	-90.95	-14,782.0	-425.0	485.0	252.6	232.36	2.087		
23,940.0	8,972.7	23,901.8	8,980.8	117.0	116.0	-90.95	-14,822.0	-425.3	485.0	252.0	232.96	2.082		
24,000.0	8,972.8	23,961.8	8,980.8	117.5	116.5	-90.95	-14,882.0	-425.8	485.0	251.1	233.87	2.074		
24,035.0	8,972.8	23,996.8	8,980.8	117.7	116.7	-90.95	-14,917.0	-426.1	485.0	250.6	234.39	2.069		
24,100.0	8,972.9	24,061.8	8,980.9	118.2	117.2	-90.95	-14,982.0	-426.6	485.0	249.6	235.37	2.061		
24,130.0	8,972.9	24,091.8	8,980.9	118.4	117.5	-90.95	-15,012.0	-426.9	485.0	249.2	235.83	2.057		
24,193.6	8,972.9	24,155.4	8,980.9	118.9	117.9	-90.95	-15,075.6	-427.4	485.0	248.2	236.78	2.048		
24,200.0	8,972.9	24,161.8	8,980.9	119.0	118.0	-90.95	-15,082.0	-427.4	485.0	248.1	236.88	2.047		
24,225.0	8,972.9	24,186.8	8,980.9	119.2	118.2	-90.95	-15,107.0	-427.7	485.0	247.7	237.26	2.044		
24,300.0	8,973.0	24,261.8	8,981.0	119.7	118.8	-90.94	-15,182.0	-428.3	485.0	246.6	238.39	2.034		
24,320.0	8,973.0	24,281.8	8,981.0	119.9	118.9	-90.94	-15,202.0	-428.4	485.0	246.3	238.69	2.032		
24,323.6	8,973.0	24,285.4	8,981.0	119.9	118.9	-90.94	-15,205.6	-428.5	485.0	246.2	238.74	2.031 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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.0	0.0	3.0	3.0	-90.95	-0.5	-30.0	30.0					
95.0	95.0	94.9	94.9	3.0	3.0	-90.95	-0.5	-30.0	30.0	24.0	6.04	4.971		
100.0	100.0	99.9	99.9	3.0	3.0	-90.95	-0.5	-30.0	30.0	24.0	6.04	4.967		
190.0	190.0	189.9	189.9	3.1	3.1	-90.95	-0.5	-30.0	30.0	23.8	6.25	4.799		
200.0	200.0	199.9	199.9	3.1	3.1	-90.95	-0.5	-30.0	30.0	23.7	6.29	4.773		
285.0	285.0	284.9	284.9	3.3	3.3	-90.95	-0.5	-30.0	30.0	23.5	6.48	4.628		
300.0	300.0	299.9	299.9	3.3	3.3	-90.95	-0.5	-30.0	30.0	23.5	6.52	4.600		
380.0	380.0	379.9	379.9	3.4	3.4	-90.95	-0.5	-30.0	30.0	23.3	6.70	4.477		
400.0	400.0	399.9	399.9	3.4	3.4	-90.95	-0.5	-30.0	30.0	23.3	6.75	4.445		
475.0	475.0	474.9	474.9	3.5	3.5	-90.95	-0.5	-30.0	30.0	23.1	6.91	4.340		
500.0	500.0	499.9	499.9	3.5	3.5	-90.95	-0.5	-30.0	30.0	23.0	6.97	4.304		
570.0	570.0	569.9	569.9	3.6	3.6	-90.95	-0.5	-30.0	30.0	22.9	7.12	4.215		
600.0	600.0	599.9	599.9	3.6	3.6	-90.95	-0.5	-30.0	30.0	22.8	7.18	4.176		
665.0	665.0	664.9	664.9	3.7	3.7	-90.95	-0.5	-30.0	30.0	22.7	7.32	4.100		
700.0	700.0	699.9	699.9	3.8	3.8	-90.95	-0.5	-30.0	30.0	22.6	7.39	4.059		
760.0	760.0	759.9	759.9	3.8	3.8	-90.95	-0.5	-30.0	30.0	22.5	7.51	3.994		
800.0	800.0	799.9	799.9	3.9	3.9	-90.95	-0.5	-30.0	30.0	22.4	7.59	3.951		
855.0	855.0	854.9	854.9	4.0	4.0	-90.95	-0.5	-30.0	30.0	22.3	7.70	3.896		
900.0	900.0	899.9	899.9	4.0	4.0	-90.95	-0.5	-30.0	30.0	22.2	7.79	3.851		
950.0	950.0	949.9	949.9	4.1	4.1	-90.95	-0.5	-30.0	30.0	22.1	7.89	3.805		
1,000.0	1,000.0	999.9	999.9	4.1	4.1	-90.95	-0.5	-30.0	30.0	22.0	7.98	3.759		
1,045.0	1,045.0	1,044.9	1,044.9	4.2	4.2	-90.95	-0.5	-30.0	30.0	21.9	8.07	3.720		
1,100.0	1,100.0	1,099.9	1,099.9	4.2	4.2	-90.95	-0.5	-30.0	30.0	21.8	8.17	3.673		
1,140.0	1,140.0	1,139.9	1,139.9	4.3	4.3	-90.95	-0.5	-30.0	30.0	21.8	8.24	3.640		
1,200.0	1,200.0	1,199.9	1,199.9	4.4	4.4	-90.95	-0.5	-30.0	30.0	21.7	8.35	3.592		
1,235.0	1,235.0	1,234.9	1,234.9	4.4	4.4	-90.95	-0.5	-30.0	30.0	21.6	8.41	3.566		
1,300.0	1,300.0	1,299.9	1,299.9	4.5	4.5	-90.95	-0.5	-30.0	30.0	21.5	8.53	3.517		
1,330.0	1,330.0	1,329.9	1,329.9	4.5	4.5	-90.95	-0.5	-30.0	30.0	21.4	8.58	3.495		
1,400.0	1,400.0	1,399.9	1,399.9	4.6	4.6	-90.95	-0.5	-30.0	30.0	21.3	8.71	3.446		
1,425.0	1,425.0	1,424.9	1,424.9	4.6	4.6	-90.95	-0.5	-30.0	30.0	21.3	8.75	3.429		
1,500.0	1,500.0	1,499.9	1,499.9	4.7	4.7	-90.95	-0.5	-30.0	30.0	21.1	8.88	3.379 CC		
1,520.0	1,520.0	1,519.7	1,519.7	4.7	4.7	-22.60	-0.5	-30.1	30.0	21.1	8.95	3.352		
1,600.0	1,600.0	1,598.9	1,598.9	4.8	4.8	-23.02	-0.1	-31.7	30.1	20.8	9.24	3.255		
1,615.0	1,615.0	1,613.7	1,613.7	4.9	4.8	-23.16	0.0	-32.2	30.1	20.8	9.31	3.230		
1,700.0	1,699.8	1,697.9	1,697.7	5.0	5.0	-24.32	1.1	-36.6	30.3	20.5	9.75	3.102		
1,710.0	1,709.8	1,707.8	1,707.6	5.1	5.0	-24.49	1.3	-37.3	30.3	20.5	9.80	3.089		
1,800.0	1,799.5	1,796.9	1,796.4	5.3	5.2	-26.44	3.2	-44.9	30.6	20.3	10.27	2.979		
1,805.0	1,804.4	1,801.8	1,801.3	5.3	5.3	-26.57	3.3	-45.4	30.6	20.3	10.30	2.974 ES		
1,900.0	1,898.7	1,895.9	1,894.6	5.6	5.5	-29.33	6.0	-56.5	31.2	20.4	10.79	2.887		
1,995.0	1,992.5	1,989.9	1,987.5	5.9	5.8	-32.68	9.4	-70.6	31.9	20.7	11.29	2.831		
2,000.0	1,997.5	1,994.8	1,992.4	5.9	5.9	-32.87	9.6	-71.4	32.0	20.7	11.31	2.829		
2,090.0	2,085.8	2,083.9	2,079.9	6.2	6.2	-36.50	13.6	-87.6	33.0	21.3	11.76	2.809		
2,100.0	2,095.6	2,093.8	2,089.6	6.2	6.2	-36.93	14.1	-89.6	33.2	21.4	11.81	2.809		
2,185.0	2,178.5	2,177.9	2,171.6	6.6	6.5	-40.65	18.5	-107.6	34.5	22.3	12.21	2.824		
2,200.1	2,193.2	2,192.9	2,186.2	6.6	6.6	-41.33	19.3	-111.0	34.8	22.5	12.28	2.830		
2,280.0	2,270.7	2,272.6	2,263.5	6.9	6.8	-44.65	23.9	-129.7	36.4	23.8	12.61	2.890		
2,300.0	2,290.1	2,292.6	2,282.9	6.9	6.9	-45.43	25.0	-134.4	36.9	24.2	12.69	2.906		
2,375.0	2,362.9	2,367.6	2,355.7	7.2	7.1	-48.21	29.3	-152.0	38.6	25.6	13.00	2.968		
2,400.0	2,387.1	2,392.6	2,379.9	7.2	7.2	-49.08	30.8	-157.9	39.2	26.1	13.10	2.990		
2,470.0	2,455.0	2,462.5	2,447.8	7.5	7.4	-51.38	34.8	-174.4	40.8	27.5	13.39	3.051		
2,500.0	2,484.1	2,492.5	2,476.9	7.6	7.6	-52.30	36.5	-181.4	41.6	28.1	13.51	3.079		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	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)		
2,565.0	2,547.2	2,557.5	2,539.9	7.8	7.8	-54.21	40.3	-196.7	43.2	29.5	13.78	3.138	
2,600.0	2,581.2	2,592.5	2,573.9	8.0	7.9	-55.17	42.3	-204.9	44.1	30.2	13.92	3.171	
2,660.0	2,639.4	2,652.4	2,632.0	8.2	8.1	-56.73	45.7	-219.0	45.7	31.5	14.16	3.227	
2,700.0	2,678.2	2,692.4	2,670.8	8.3	8.3	-57.72	48.0	-228.4	46.8	32.4	14.33	3.265	
2,755.0	2,731.6	2,747.4	2,724.2	8.5	8.5	-59.00	51.2	-241.3	48.3	33.7	14.55	3.316	
2,800.0	2,775.2	2,792.4	2,767.8	8.7	8.7	-59.99	53.8	-251.9	49.5	34.8	14.74	3.359	
2,850.0	2,823.7	2,842.3	2,816.3	8.9	8.9	-61.03	56.6	-263.6	50.9	35.9	14.94	3.406	
2,900.0	2,872.3	2,892.3	2,864.8	9.1	9.1	-62.02	59.5	-275.4	52.3	37.1	15.15	3.452	
2,945.0	2,915.9	2,937.3	2,908.4	9.3	9.3	-62.86	62.1	-285.9	53.6	38.2	15.33	3.494	
3,000.0	2,969.3	2,992.2	2,961.8	9.5	9.5	-63.84	65.2	-298.9	55.1	39.6	15.56	3.544	
3,040.0	3,008.1	3,032.2	3,000.6	9.7	9.6	-64.52	67.5	-308.2	56.3	40.6	15.72	3.581	
3,100.0	3,066.3	3,092.2	3,058.7	9.9	9.9	-65.49	71.0	-322.3	58.0	42.1	15.97	3.634	
3,135.0	3,100.3	3,127.2	3,092.7	10.1	10.0	-66.02	73.0	-330.6	59.1	43.0	16.12	3.665	
3,200.0	3,163.3	3,192.1	3,155.7	10.4	10.3	-66.97	76.7	-345.8	61.0	44.6	16.39	3.722	
3,230.0	3,192.4	3,222.1	3,184.8	10.5	10.4	-67.39	78.4	-352.9	61.9	45.4	16.51	3.748	
3,300.0	3,260.4	3,292.1	3,252.7	10.8	10.7	-68.32	82.5	-369.3	64.0	47.2	16.81	3.807	
3,325.0	3,284.6	3,317.1	3,276.9	10.9	10.8	-68.64	83.9	-375.2	64.7	47.8	16.91	3.828	
3,400.0	3,357.4	3,392.0	3,349.7	11.2	11.2	-69.54	88.2	-392.8	67.0	49.8	17.23	3.889	
3,420.0	3,376.8	3,412.0	3,369.1	11.3	11.3	-69.78	89.4	-397.5	67.6	50.3	17.31	3.905	
3,500.0	3,454.4	3,492.0	3,446.6	11.6	11.6	-70.67	94.0	-416.3	70.0	52.4	17.65	3.968	
3,515.0	3,469.0	3,507.0	3,461.2	11.7	11.7	-70.83	94.8	-419.8	70.5	52.8	17.72	3.979	
3,600.0	3,551.5	3,591.9	3,543.6	12.1	12.0	-71.69	99.7	-439.8	73.1	55.0	18.08	4.044	
3,610.0	3,561.2	3,601.9	3,553.3	12.1	12.1	-71.79	100.3	-442.1	73.4	55.3	18.12	4.051	
3,700.0	3,648.5	3,691.9	3,640.6	12.5	12.5	-72.64	105.4	-463.3	76.2	57.7	18.51	4.117	
3,705.0	3,653.3	3,696.9	3,645.4	12.6	12.5	-72.68	105.7	-464.4	76.4	57.8	18.53	4.120	
3,800.0	3,745.5	3,791.8	3,737.6	13.0	12.9	-73.51	111.2	-486.8	79.3	60.4	18.94	4.187	
3,895.0	3,837.7	3,886.7	3,829.7	13.4	13.4	-74.27	116.6	-509.1	82.3	62.9	19.36	4.250	
3,900.0	3,842.5	3,891.7	3,834.5	13.4	13.4	-74.31	116.9	-510.3	82.4	63.1	19.38	4.254	
3,990.0	3,929.9	3,981.7	3,921.8	13.8	13.8	-74.98	122.1	-531.4	85.3	65.5	19.77	4.312	
4,000.0	3,939.6	3,991.7	3,931.5	13.9	13.8	-75.06	122.7	-533.7	85.6	65.8	19.82	4.318	
4,085.0	4,022.0	4,076.6	4,013.9	14.3	14.2	-75.65	127.6	-553.7	88.3	68.1	20.19	4.370	
4,100.0	4,036.6	4,091.6	4,028.5	14.3	14.3	-75.75	128.4	-557.2	88.7	68.5	20.26	4.379	
4,180.0	4,114.2	4,171.6	4,106.1	14.7	14.7	-76.27	133.0	-576.0	91.3	70.6	20.62	4.426	
4,200.0	4,133.6	4,191.6	4,125.5	14.8	14.8	-76.39	134.2	-580.7	91.9	71.2	20.71	4.438	
4,275.0	4,206.4	4,266.5	4,198.2	15.1	15.1	-76.85	138.5	-598.3	94.3	73.2	21.04	4.480	
4,300.0	4,230.7	4,291.5	4,222.4	15.3	15.2	-77.00	139.9	-604.2	95.1	73.9	21.15	4.494	
4,370.0	4,298.6	4,361.5	4,290.3	15.6	15.5	-77.39	143.9	-620.6	97.3	75.8	21.47	4.532	
4,400.0	4,327.7	4,391.5	4,319.4	15.7	15.7	-77.56	145.6	-627.7	98.3	76.7	21.60	4.548	
4,465.0	4,390.7	4,456.4	4,382.5	16.0	16.0	-77.90	149.4	-643.0	100.3	78.4	21.90	4.582	
4,500.0	4,424.7	4,491.4	4,416.4	16.2	16.1	-78.09	151.4	-651.2	101.5	79.4	22.06	4.600	
4,560.0	4,482.9	4,551.4	4,474.6	16.5	16.4	-78.39	154.8	-665.3	103.4	81.0	22.33	4.629	
4,600.0	4,521.7	4,591.4	4,513.4	16.6	16.6	-78.58	157.1	-674.7	104.7	82.1	22.51	4.649	
4,634.9	4,555.6	4,626.3	4,547.2	16.8	16.8	-78.75	159.1	-682.9	105.8	83.1	22.66	4.669	
4,655.0	4,575.1	4,646.3	4,566.7	16.9	16.9	-78.83	160.3	-687.6	106.4	83.7	22.74	4.679	
4,700.0	4,618.9	4,691.3	4,610.3	17.1	17.1	-78.88	162.9	-698.2	107.9	85.0	22.96	4.702	
4,750.0	4,667.6	4,741.3	4,658.8	17.3	17.3	-78.71	165.7	-709.9	109.7	86.5	23.23	4.722	
4,800.0	4,716.3	4,791.2	4,707.3	17.6	17.5	-78.34	168.6	-721.6	111.5	88.0	23.54	4.739	
4,845.0	4,760.3	4,836.2	4,750.9	17.8	17.7	-77.83	171.2	-732.2	113.3	89.5	23.84	4.753	
4,900.0	4,814.2	4,891.1	4,804.2	18.0	18.0	-77.00	174.4	-745.1	115.5	91.3	24.24	4.767	
4,940.0	4,853.5	4,931.0	4,843.0	18.2	18.2	-76.26	176.7	-754.5	117.3	92.7	24.56	4.776	
5,000.0	4,912.4	4,990.9	4,901.1	18.5	18.5	-74.95	180.1	-768.6	120.0	95.0	25.08	4.786	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
5,035.0	4,946.9	5,025.8	4,934.9	18.6	18.6	-74.08	182.1	-776.8	121.8	96.4	25.42	4.791	
5,100.0	5,010.9	5,090.6	4,997.8	18.9	18.9	-72.30	185.8	-792.0	125.2	99.1	26.10	4.798	
5,130.0	5,040.6	5,120.5	5,026.8	19.0	19.1	-71.40	187.5	-799.0	126.9	100.5	26.44	4.801	
5,200.0	5,109.8	5,190.2	5,094.4	19.3	19.4	-69.16	191.5	-815.4	131.3	104.0	27.30	4.808	
5,225.0	5,134.5	5,215.0	5,118.5	19.4	19.5	-68.32	193.0	-821.3	132.9	105.3	27.63	4.811	
5,300.0	5,208.8	5,289.6	5,190.8	19.8	19.9	-65.67	197.3	-838.8	138.4	109.7	28.69	4.823	
5,320.0	5,228.7	5,309.4	5,210.1	19.8	20.0	-64.94	198.4	-843.4	139.9	111.0	28.99	4.827	
5,400.0	5,308.1	5,388.8	5,287.1	20.2	20.4	-61.94	203.0	-862.1	146.8	116.5	30.25	4.853	
5,415.0	5,323.0	5,403.6	5,301.5	20.2	20.4	-61.37	203.8	-865.6	148.2	117.7	30.49	4.859	
5,500.0	5,407.6	5,487.7	5,383.1	20.6	20.8	-58.11	208.6	-885.3	156.7	124.8	31.93	4.907	
5,510.0	5,417.5	5,497.6	5,392.7	20.6	20.9	-57.73	209.2	-887.7	157.8	125.7	32.10	4.915	
5,600.0	5,507.2	5,586.4	5,478.9	20.9	21.3	-54.29	214.3	-908.5	168.2	134.6	33.68	4.995	
5,605.0	5,512.2	5,591.4	5,483.7	21.0	21.3	-54.10	214.6	-909.7	168.9	135.1	33.77	5.001	
5,700.0	5,607.0	5,684.9	5,574.4	21.3	21.8	-50.57	220.0	-931.7	181.6	146.1	35.45	5.122	
5,795.0	5,701.9	5,778.1	5,664.8	21.6	22.2	-47.19	225.3	-953.6	196.0	158.9	37.09	5.283	
5,800.0	5,706.9	5,783.0	5,669.6	21.6	22.2	-47.02	225.6	-954.7	196.8	159.6	37.18	5.293	
5,890.0	5,796.8	5,870.9	5,754.9	21.9	22.7	-44.01	230.7	-975.4	212.1	173.4	38.68	5.484	
5,900.0	5,806.8	5,880.7	5,764.4	21.9	22.7	-43.69	231.2	-977.7	213.9	175.1	38.84	5.508	
5,985.0	5,891.8	5,963.5	5,844.7	22.2	23.1	-41.05	236.0	-997.2	230.0	189.8	40.16	5.728	
6,000.0	5,906.8	5,978.1	5,858.9	22.2	23.2	-40.60	236.8	-1,000.6	233.0	192.6	40.38	5.770	
6,035.2	5,942.0	6,012.3	5,892.1	22.2	23.3	-107.95	238.8	-1,008.6	240.2	199.3	40.87	5.877	
6,080.0	5,986.8	6,055.7	5,934.2	22.2	23.5	-106.65	241.3	-1,018.8	249.5	208.1	41.43	6.023	
6,100.0	6,006.8	6,075.1	5,953.1	22.2	23.6	-106.10	242.4	-1,023.4	253.8	212.1	41.67	6.089	
6,175.0	6,081.8	6,147.9	6,023.7	22.3	24.0	-104.20	246.6	-1,040.5	269.8	227.2	42.54	6.341	
6,200.0	6,106.8	6,172.2	6,047.2	22.3	24.1	-103.61	248.0	-1,046.2	275.1	232.3	42.82	6.426	
6,270.0	6,176.8	6,240.1	6,113.1	22.3	24.4	-102.09	251.9	-1,062.2	290.4	246.8	43.55	6.669	
6,300.0	6,206.8	6,269.2	6,141.4	22.3	24.6	-101.48	253.6	-1,069.0	297.0	253.1	43.84	6.773	
6,365.0	6,271.8	6,332.3	6,202.5	22.3	24.9	-100.25	257.2	-1,083.8	311.3	266.9	44.46	7.003	
6,400.0	6,306.8	6,366.2	6,235.5	22.4	25.0	-99.64	259.1	-1,091.8	319.1	274.4	44.78	7.127	
6,460.0	6,366.8	6,424.4	6,292.0	22.4	25.3	-98.65	262.5	-1,105.5	332.6	287.3	45.31	7.340	
6,500.0	6,406.8	6,463.2	6,329.6	22.4	25.5	-98.03	264.7	-1,114.6	341.6	295.9	45.65	7.483	
6,555.0	6,461.8	6,516.6	6,381.4	22.4	25.8	-97.24	267.8	-1,127.1	354.0	307.9	46.10	7.679	
6,600.0	6,506.8	6,560.3	6,423.8	22.4	26.0	-96.63	270.3	-1,137.4	364.2	317.8	46.46	7.840	
6,650.0	6,556.8	6,608.8	6,470.9	22.5	26.2	-95.99	273.1	-1,148.8	375.6	328.8	46.85	8.018	
6,700.0	6,606.8	6,657.3	6,517.9	22.5	26.4	-95.38	275.9	-1,160.2	387.1	339.9	47.23	8.196	
6,745.0	6,651.8	6,701.0	6,560.3	22.5	26.6	-94.87	278.4	-1,170.5	397.4	349.9	47.56	8.356	
6,800.0	6,706.8	6,754.3	6,612.1	22.5	26.9	-94.28	281.4	-1,183.0	410.1	362.1	47.96	8.551	
6,840.0	6,746.8	6,796.5	6,653.0	22.5	27.1	-93.84	283.8	-1,192.8	419.2	371.0	48.26	8.688	
6,900.0	6,806.8	6,864.7	6,719.5	22.6	27.4	-93.22	287.4	-1,207.5	432.0	383.3	48.72	8.867	
6,935.0	6,841.8	6,904.8	6,758.8	22.6	27.6	-92.90	289.4	-1,215.5	438.9	389.9	48.97	8.961	
7,000.0	6,906.8	6,979.9	6,832.6	22.6	28.0	-92.39	292.7	-1,228.9	450.3	401.0	49.40	9.117	
7,030.0	6,936.8	7,014.8	6,867.0	22.6	28.1	-92.19	294.0	-1,234.5	455.1	405.5	49.57	9.181	
7,100.0	7,006.8	7,096.7	6,948.0	22.6	28.5	-91.78	296.8	-1,246.1	464.9	415.0	49.94	9.308	
7,125.0	7,031.8	7,126.1	6,977.2	22.6	28.6	-91.66	297.7	-1,249.7	467.9	417.9	50.06	9.348	
7,200.0	7,106.8	7,214.8	7,065.4	22.7	29.0	-91.36	299.9	-1,258.7	475.6	425.2	50.36	9.444	
7,220.0	7,126.8	7,238.5	7,089.1	22.7	29.1	-91.30	300.4	-1,260.7	477.2	426.8	50.42	9.465	
7,300.0	7,206.8	7,333.8	7,184.1	22.7	29.5	-91.11	301.9	-1,266.7	482.2	431.6	50.62	9.526	
7,315.0	7,221.8	7,351.7	7,202.0	22.7	29.5	-91.08	302.1	-1,267.5	482.9	432.3	50.65	9.535	
7,400.0	7,306.8	7,453.3	7,303.5	22.8	29.8	-91.01	302.7	-1,269.9	484.9	434.3	50.66	9.573	
7,410.0	7,316.8	7,465.2	7,315.5	22.8	29.8	-91.00	302.7	-1,270.0	485.0	434.3	50.64	9.576	
7,500.0	7,406.8	7,556.4	7,406.7	22.8	29.8	-91.00	302.7	-1,270.0	485.0	434.3	50.69	9.568	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation
Depth	Depth	Depth	Depth	Depth	Depth	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	Warning
7,505.0	7,411.8	7,561.4	7,411.7	22.8	29.8	-91.00	302.7	-1,270.0	485.0	434.3	50.69	9.567
7,600.0	7,506.8	7,656.4	7,506.7	22.8	29.8	-91.00	302.7	-1,270.0	485.0	434.2	50.76	9.555
7,695.0	7,601.8	7,751.4	7,601.7	22.9	29.9	-91.00	302.7	-1,270.0	485.0	434.1	50.83	9.542
7,700.0	7,606.8	7,756.4	7,606.7	22.9	29.9	-91.00	302.7	-1,270.0	485.0	434.1	50.83	9.541
7,790.0	7,696.8	7,846.4	7,696.7	22.9	29.9	-91.00	302.7	-1,270.0	485.0	434.1	50.90	9.529
7,800.0	7,706.8	7,856.4	7,706.7	22.9	29.9	-91.00	302.7	-1,270.0	485.0	434.1	50.90	9.527
7,885.0	7,791.8	7,941.4	7,791.7	23.0	29.9	-91.00	302.7	-1,270.0	485.0	434.0	50.96	9.516
7,900.0	7,806.8	7,956.4	7,806.7	23.0	29.9	-91.00	302.7	-1,270.0	485.0	434.0	50.98	9.514
7,980.0	7,886.8	8,036.4	7,886.7	23.0	29.9	-91.00	302.7	-1,270.0	485.0	433.9	51.03	9.503
8,000.0	7,906.8	8,056.4	7,906.7	23.0	30.0	-91.00	302.7	-1,270.0	485.0	433.9	51.05	9.500
8,075.0	7,981.8	8,131.4	7,981.7	23.0	30.0	-91.00	302.7	-1,270.0	485.0	433.9	51.10	9.490
8,100.0	8,006.8	8,156.4	8,006.7	23.0	30.0	-91.00	302.7	-1,270.0	485.0	433.9	51.12	9.487
8,170.0	8,076.8	8,226.4	8,076.7	23.1	30.0	-91.00	302.7	-1,270.0	485.0	433.8	51.17	9.477
8,200.0	8,106.8	8,256.4	8,106.7	23.1	30.0	-91.00	302.7	-1,270.0	485.0	433.8	51.20	9.473
8,265.0	8,171.8	8,321.4	8,171.7	23.1	30.0	-91.00	302.7	-1,270.0	485.0	433.7	51.24	9.464
8,300.0	8,206.8	8,356.4	8,206.7	23.1	30.0	-91.00	302.7	-1,270.0	485.0	433.7	51.27	9.459
8,360.0	8,266.8	8,416.4	8,266.7	23.2	30.1	-91.00	302.7	-1,270.0	485.0	433.7	51.32	9.451
8,400.0	8,306.8	8,456.4	8,306.7	23.2	30.1	-91.00	302.7	-1,270.0	485.0	433.6	51.34	9.445
8,455.0	8,361.8	8,511.4	8,361.7	23.2	30.1	-91.00	302.7	-1,270.0	485.0	433.6	51.38	9.440
8,457.5	8,364.3	8,513.9	8,364.2	23.2	30.1	-91.00	302.7	-1,270.0	485.0	433.6	51.38	9.439
8,483.2	8,390.0	8,539.5	8,389.7	23.2	30.1	-91.01	302.6	-1,270.0	485.0	433.6	51.39	9.437
8,500.0	8,406.8	8,555.9	8,406.1	23.2	30.1	88.48	302.1	-1,270.0	485.0	433.6	51.39	9.437
8,550.0	8,456.7	8,604.7	8,454.8	23.2	30.1	88.39	297.8	-1,270.0	485.0	433.6	51.41	9.434
8,600.0	8,506.0	8,653.5	8,502.8	23.2	30.1	88.31	289.4	-1,270.1	485.0	433.6	51.43	9.431
8,645.0	8,549.7	8,697.4	8,545.3	23.2	30.1	88.25	278.4	-1,270.2	485.0	433.6	51.45	9.427
8,650.0	8,554.5	8,702.3	8,550.0	23.2	30.1	88.25	276.9	-1,270.2	485.0	433.6	51.45	9.427
8,700.0	8,601.7	8,751.0	8,595.8	23.3	30.1	88.19	260.5	-1,270.3	485.1	433.6	51.48	9.423
8,740.0	8,638.3	8,790.0	8,631.4	23.3	30.1	88.16	244.6	-1,270.5	485.1	433.6	51.50	9.419
8,750.0	8,647.3	8,800.0	8,640.4	23.3	30.1	88.15	240.2	-1,270.5	485.1	433.6	51.50	9.419
8,750.2	8,647.5	8,800.0	8,640.4	23.3	30.1	88.15	240.2	-1,270.5	485.1	433.6	51.50	9.418
8,800.0	8,690.9	8,848.3	8,682.4	23.3	30.1	88.13	216.4	-1,270.7	485.1	433.5	51.54	9.412
8,835.0	8,720.1	8,882.4	8,710.8	23.3	30.1	88.12	197.6	-1,270.9	485.1	433.5	51.56	9.407
8,850.0	8,732.3	8,897.0	8,722.6	23.3	30.1	88.12	189.0	-1,270.9	485.1	433.5	51.58	9.405
8,900.0	8,771.0	8,945.6	8,760.3	23.3	30.2	88.12	158.3	-1,271.2	485.1	433.5	51.62	9.398
8,930.0	8,792.9	8,974.8	8,781.7	23.4	30.2	88.13	138.4	-1,271.4	485.1	433.4	51.64	9.393
8,950.0	8,806.9	8,994.3	8,795.3	23.4	30.2	88.13	124.5	-1,271.5	485.1	433.4	51.66	9.389
9,000.0	8,839.5	9,043.0	8,827.3	23.4	30.2	88.16	87.8	-1,271.8	485.1	433.3	51.72	9.380
9,025.0	8,854.6	9,067.3	8,842.1	23.4	30.2	88.18	68.5	-1,271.9	485.1	433.3	51.74	9.374
9,050.0	8,868.8	9,091.7	8,856.1	23.4	30.2	88.21	48.6	-1,272.1	485.1	433.3	51.77	9.369
9,100.0	8,894.4	9,140.4	8,881.5	23.5	30.3	88.27	7.0	-1,272.4	485.0	433.2	51.84	9.357
9,120.0	8,903.6	9,159.9	8,890.6	23.5	30.3	88.29	-10.2	-1,272.6	485.0	433.2	51.86	9.352
9,150.0	8,916.2	9,189.2	8,903.2	23.5	30.3	88.34	-36.6	-1,272.8	485.0	433.1	51.91	9.344
9,200.0	8,933.9	9,238.0	8,921.2	23.6	30.3	88.42	-82.0	-1,273.2	485.0	433.0	51.98	9.330
9,215.0	8,938.5	9,252.6	8,925.8	23.6	30.3	88.44	-95.9	-1,273.3	485.0	433.0	52.01	9.325
9,250.0	8,947.6	9,286.9	8,935.3	23.6	30.4	88.51	-128.8	-1,273.6	485.0	432.9	52.07	9.315
9,300.0	8,957.0	9,335.8	8,945.3	23.7	30.4	88.62	-176.7	-1,274.0	485.0	432.8	52.15	9.299
9,310.0	8,958.3	9,345.6	8,946.8	23.7	30.4	88.64	-186.4	-1,274.0	485.0	432.8	52.17	9.295
9,350.0	8,962.0	9,384.8	8,951.2	23.7	30.5	88.73	-225.3	-1,274.4	484.9	432.7	52.25	9.282
9,382.9	8,963.0	9,417.1	8,952.9	23.8	30.5	88.81	-257.6	-1,274.6	484.9	432.6	52.31	9.270
9,395.0	8,963.0	9,429.1	8,953.0	23.8	30.5	88.83	-269.5	-1,274.7	484.9	432.6	52.34	9.266
9,400.0	8,963.0	9,434.0	8,953.0	23.8	30.5	88.83	-274.5	-1,274.8	484.9	432.6	52.35	9.264

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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre		Distance								
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,405.0	8,963.0	9,439.0	8,953.0	23.8	30.5	88.83	-279.5	-1,274.8	484.9	432.6	52.36	9.262		
9,500.0	8,963.1	9,534.0	8,953.1	23.9	30.6	88.83	-374.5	-1,275.6	484.9	432.3	52.59	9.221		
9,595.0	8,963.1	9,629.0	8,953.2	24.1	30.8	88.83	-469.5	-1,276.4	484.9	432.1	52.86	9.174		
9,600.0	8,963.1	9,634.0	8,953.2	24.1	30.8	88.83	-474.5	-1,276.4	484.9	432.0	52.87	9.171		
9,690.0	8,963.2	9,724.0	8,953.2	24.3	30.9	88.83	-564.5	-1,277.2	484.9	431.8	53.17	9.120		
9,700.0	8,963.2	9,734.0	8,953.2	24.3	30.9	88.83	-574.5	-1,277.3	484.9	431.7	53.20	9.114		
9,785.0	8,963.3	9,819.0	8,953.3	24.5	31.1	88.84	-659.5	-1,278.0	484.9	431.4	53.52	9.061		
9,800.0	8,963.3	9,834.0	8,953.3	24.5	31.1	88.84	-674.5	-1,278.1	484.9	431.3	53.58	9.051		
9,880.0	8,963.3	9,914.0	8,953.4	24.7	31.3	88.84	-754.5	-1,278.7	484.9	431.0	53.90	8.996		
9,900.0	8,963.3	9,934.0	8,953.4	24.7	31.3	88.84	-774.5	-1,278.9	484.9	430.9	53.99	8.982		
9,975.0	8,963.4	10,009.0	8,953.5	24.9	31.5	88.84	-849.5	-1,279.5	484.9	430.6	54.33	8.926		
10,000.0	8,963.4	10,034.0	8,953.5	25.0	31.5	88.84	-874.5	-1,279.7	484.9	430.5	54.44	8.907		
10,070.0	8,963.5	10,104.0	8,953.5	25.1	31.7	88.84	-944.5	-1,280.3	484.9	430.1	54.78	8.851		
10,100.0	8,963.5	10,134.0	8,953.6	25.2	31.8	88.84	-974.5	-1,280.6	484.9	430.0	54.94	8.827		
10,165.0	8,963.5	10,199.0	8,953.6	25.4	31.9	88.84	-1,039.5	-1,281.1	484.9	429.6	55.28	8.773		
10,200.0	8,963.5	10,234.0	8,953.6	25.5	32.0	88.84	-1,074.5	-1,281.4	484.9	429.5	55.47	8.743		
10,260.0	8,963.6	10,294.0	8,953.7	25.7	32.1	88.84	-1,134.5	-1,281.9	484.9	429.1	55.80	8.690		
10,300.0	8,963.6	10,334.0	8,953.7	25.8	32.2	88.84	-1,174.5	-1,282.2	484.9	428.9	56.03	8.654		
10,355.0	8,963.7	10,389.0	8,953.8	26.0	32.4	88.84	-1,229.5	-1,282.7	484.9	428.6	56.36	8.604		
10,400.0	8,963.7	10,434.0	8,953.8	26.1	32.5	88.85	-1,274.5	-1,283.1	484.9	428.3	56.64	8.562		
10,450.0	8,963.7	10,484.0	8,953.8	26.3	32.7	88.85	-1,324.5	-1,283.5	484.9	428.0	56.95	8.514		
10,500.0	8,963.7	10,534.0	8,953.9	26.4	32.8	88.85	-1,374.5	-1,283.9	484.9	427.6	57.28	8.466		
10,545.0	8,963.8	10,579.0	8,953.9	26.6	32.9	88.85	-1,419.5	-1,284.3	484.9	427.3	57.58	8.422		
10,600.0	8,963.8	10,634.0	8,954.0	26.8	33.1	88.85	-1,474.5	-1,284.7	484.9	427.0	57.95	8.368		
10,640.0	8,963.8	10,674.0	8,954.0	26.9	33.2	88.85	-1,514.5	-1,285.0	484.9	426.7	58.23	8.328		
10,700.0	8,963.9	10,734.0	8,954.0	27.1	33.4	88.85	-1,574.4	-1,285.5	484.9	426.3	58.65	8.268		
10,735.0	8,963.9	10,769.0	8,954.1	27.3	33.5	88.85	-1,609.4	-1,285.8	484.9	426.0	58.91	8.232		
10,800.0	8,963.9	10,834.0	8,954.1	27.5	33.7	88.85	-1,674.4	-1,286.4	484.9	425.5	59.39	8.166		
10,830.0	8,964.0	10,864.0	8,954.2	27.6	33.8	88.85	-1,704.4	-1,286.6	484.9	425.3	59.61	8.134		
10,900.0	8,964.0	10,934.0	8,954.2	27.9	34.1	88.85	-1,774.4	-1,287.2	484.9	424.8	60.15	8.062		
10,925.0	8,964.0	10,959.0	8,954.2	28.0	34.2	88.85	-1,799.4	-1,287.4	484.9	424.6	60.35	8.035		
11,000.0	8,964.1	11,034.0	8,954.3	28.3	34.4	88.85	-1,874.4	-1,288.0	484.9	424.0	60.95	7.957		
11,020.0	8,964.1	11,054.0	8,954.3	28.4	34.5	88.86	-1,894.4	-1,288.2	484.9	423.8	61.11	7.935		
11,100.0	8,964.1	11,134.0	8,954.4	28.7	34.8	88.86	-1,974.4	-1,288.8	484.9	423.2	61.77	7.851		
11,115.0	8,964.2	11,149.0	8,954.4	28.8	34.8	88.86	-1,989.4	-1,289.0	484.9	423.0	61.89	7.835		
11,200.0	8,964.2	11,234.0	8,954.5	29.2	35.2	88.86	-2,074.4	-1,289.7	484.9	422.3	62.61	7.745		
11,210.0	8,964.2	11,244.0	8,954.5	29.2	35.2	88.86	-2,084.4	-1,289.8	484.9	422.2	62.70	7.734		
11,300.0	8,964.3	11,334.0	8,954.5	29.6	35.6	88.86	-2,174.4	-1,290.5	484.9	421.4	63.49	7.638		
11,305.0	8,964.3	11,339.0	8,954.5	29.6	35.6	88.86	-2,179.4	-1,290.5	484.9	421.4	63.53	7.633		
11,400.0	8,964.3	11,434.0	8,954.6	30.1	36.0	88.86	-2,274.4	-1,291.3	484.9	420.5	64.38	7.532		
11,495.0	8,964.4	11,529.0	8,954.7	30.5	36.3	88.86	-2,369.4	-1,292.1	484.9	419.7	65.26	7.431		
11,500.0	8,964.4	11,534.0	8,954.7	30.6	36.4	88.86	-2,374.4	-1,292.2	484.9	419.6	65.30	7.426		
11,590.0	8,964.5	11,624.0	8,954.8	31.0	36.7	88.86	-2,464.4	-1,292.9	484.9	418.8	66.15	7.330		
11,600.0	8,964.5	11,634.0	8,954.8	31.0	36.8	88.86	-2,474.4	-1,293.0	484.9	418.7	66.25	7.320		
11,685.0	8,964.5	11,719.0	8,954.8	31.5	37.1	88.87	-2,559.4	-1,293.7	484.9	417.9	67.07	7.231		
11,700.0	8,964.6	11,734.0	8,954.9	31.5	37.2	88.87	-2,574.4	-1,293.8	484.9	417.7	67.21	7.215		
11,780.0	8,964.6	11,814.0	8,954.9	31.9	37.6	88.87	-2,654.4	-1,294.5	484.9	416.9	68.00	7.132		
11,800.0	8,964.6	11,834.0	8,954.9	32.0	37.7	88.87	-2,674.4	-1,294.6	484.9	416.7	68.20	7.111		
11,875.0	8,964.7	11,909.0	8,955.0	32.4	38.0	88.87	-2,749.4	-1,295.3	484.9	416.0	68.95	7.033		
11,900.0	8,964.7	11,934.0	8,955.0	32.6	38.1	88.87	-2,774.4	-1,295.5	484.9	415.7	69.20	7.008		
11,970.0	8,964.7	12,004.0	8,955.1	32.9	38.4	88.87	-2,844.4	-1,296.0	484.9	415.0	69.92	6.936		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,000.0	8,964.8	12,034.0	8,955.1	33.1	38.6	88.87	-2,874.4	-1,296.3	484.9	414.7	70.22	6.905		
12,065.0	8,964.8	12,099.0	8,955.1	33.4	38.9	88.87	-2,939.4	-1,296.8	484.9	414.0	70.90	6.840		
12,100.0	8,964.8	12,134.0	8,955.2	33.6	39.0	88.87	-2,974.4	-1,297.1	484.9	413.7	71.26	6.805		
12,160.0	8,964.9	12,194.0	8,955.2	34.0	39.3	88.87	-3,034.4	-1,297.6	484.9	413.0	71.90	6.745		
12,200.0	8,964.9	12,234.0	8,955.3	34.2	39.5	88.87	-3,074.4	-1,297.9	484.9	412.6	72.32	6.705		
12,255.0	8,964.9	12,289.0	8,955.3	34.5	39.8	88.87	-3,129.4	-1,298.4	484.9	412.0	72.91	6.651		
12,300.0	8,965.0	12,334.0	8,955.3	34.7	40.0	88.88	-3,174.4	-1,298.8	484.9	411.5	73.40	6.607		
12,350.0	8,965.0	12,384.0	8,955.4	35.0	40.2	88.88	-3,224.4	-1,299.2	484.9	411.0	73.94	6.558		
12,400.0	8,965.0	12,434.0	8,955.4	35.3	40.5	88.88	-3,274.4	-1,299.6	484.9	410.4	74.49	6.510		
12,445.0	8,965.0	12,479.0	8,955.5	35.5	40.7	88.88	-3,319.4	-1,300.0	484.9	409.9	74.98	6.467		
12,500.0	8,965.1	12,534.0	8,955.5	35.9	41.0	88.88	-3,374.4	-1,300.4	484.9	409.3	75.59	6.415		
12,540.0	8,965.1	12,574.0	8,955.5	36.1	41.2	88.88	-3,414.4	-1,300.8	484.9	408.9	76.04	6.377		
12,600.0	8,965.2	12,634.0	8,955.6	36.4	41.5	88.88	-3,474.4	-1,301.3	484.9	408.2	76.71	6.321		
12,635.0	8,965.2	12,669.0	8,955.6	36.6	41.7	88.88	-3,509.4	-1,301.5	484.9	407.8	77.11	6.289		
12,700.0	8,965.2	12,734.0	8,955.7	37.0	42.0	88.88	-3,574.4	-1,302.1	484.9	407.1	77.85	6.229		
12,730.0	8,965.2	12,764.0	8,955.7	37.2	42.2	88.88	-3,604.4	-1,302.3	484.9	406.7	78.19	6.202		
12,800.0	8,965.3	12,834.0	8,955.7	37.6	42.6	88.88	-3,674.4	-1,302.9	484.9	405.9	78.99	6.139		
12,825.0	8,965.3	12,859.0	8,955.8	37.8	42.7	88.88	-3,699.4	-1,303.1	484.9	405.7	79.28	6.117		
12,900.0	8,965.4	12,934.0	8,955.8	38.2	43.1	88.89	-3,774.4	-1,303.7	484.9	404.8	80.15	6.050		
12,920.0	8,965.4	12,954.0	8,955.8	38.3	43.2	88.89	-3,794.4	-1,303.9	484.9	404.5	80.39	6.033		
13,000.0	8,965.4	13,034.0	8,955.9	38.8	43.6	88.89	-3,874.4	-1,304.6	484.9	403.6	81.32	5.963		
13,015.0	8,965.4	13,049.0	8,955.9	38.9	43.7	88.89	-3,889.4	-1,304.7	484.9	403.4	81.50	5.950		
13,100.0	8,965.5	13,134.0	8,956.0	39.4	44.2	88.89	-3,974.4	-1,305.4	484.9	402.4	82.51	5.878		
13,110.0	8,965.5	13,144.0	8,956.0	39.5	44.2	88.89	-3,984.4	-1,305.5	484.9	402.3	82.62	5.869		
13,200.0	8,965.6	13,234.0	8,956.1	40.0	44.7	88.89	-4,074.4	-1,306.2	484.9	401.2	83.70	5.794		
13,205.0	8,965.6	13,239.0	8,956.1	40.1	44.7	88.89	-4,079.4	-1,306.3	484.9	401.2	83.76	5.790		
13,300.0	8,965.6	13,334.0	8,956.1	40.7	45.3	88.89	-4,174.4	-1,307.1	484.9	400.0	84.90	5.712		
13,395.0	8,965.7	13,429.0	8,956.2	41.3	45.8	88.89	-4,269.4	-1,307.8	484.9	398.9	86.06	5.635		
13,400.0	8,965.7	13,434.0	8,956.2	41.3	45.8	88.89	-4,274.4	-1,307.9	484.9	398.8	86.12	5.631		
13,490.0	8,965.7	13,524.0	8,956.3	41.9	46.4	88.89	-4,364.4	-1,308.6	484.9	397.7	87.22	5.560		
13,500.0	8,965.8	13,534.0	8,956.3	41.9	46.4	88.89	-4,374.4	-1,308.7	484.9	397.6	87.34	5.552		
13,585.0	8,965.8	13,619.0	8,956.4	42.5	46.9	88.90	-4,459.3	-1,309.4	484.9	396.5	88.39	5.486		
13,600.0	8,965.8	13,634.0	8,956.4	42.5	47.0	88.90	-4,474.3	-1,309.5	484.9	396.4	88.58	5.475		
13,680.0	8,965.9	13,714.0	8,956.4	43.1	47.5	88.90	-4,554.3	-1,310.2	484.9	395.4	89.57	5.414		
13,700.0	8,965.9	13,734.0	8,956.5	43.2	47.6	88.90	-4,574.3	-1,310.4	484.9	395.1	89.82	5.399		
13,775.0	8,965.9	13,809.0	8,956.5	43.7	48.0	88.90	-4,649.3	-1,311.0	484.9	394.2	90.76	5.343		
13,800.0	8,966.0	13,834.0	8,956.5	43.8	48.2	88.90	-4,674.3	-1,311.2	484.9	393.9	91.07	5.325		
13,870.0	8,966.0	13,904.0	8,956.6	44.3	48.6	88.90	-4,744.3	-1,311.8	484.9	393.0	91.95	5.274		
13,900.0	8,966.0	13,934.0	8,956.6	44.5	48.7	88.90	-4,774.3	-1,312.0	484.9	392.6	92.33	5.252		
13,965.0	8,966.1	13,999.0	8,956.7	44.9	49.1	88.90	-4,839.3	-1,312.6	484.9	391.8	93.15	5.206		
14,000.0	8,966.1	14,034.0	8,956.7	45.1	49.3	88.90	-4,874.3	-1,312.8	484.9	391.3	93.60	5.181		
14,060.0	8,966.1	14,094.0	8,956.8	45.5	49.7	88.90	-4,934.3	-1,313.3	484.9	390.6	94.36	5.139		
14,100.0	8,966.2	14,134.0	8,956.8	45.8	49.9	88.90	-4,974.3	-1,313.7	484.9	390.1	94.87	5.112		
14,155.0	8,966.2	14,189.0	8,956.8	46.1	50.3	88.91	-5,029.3	-1,314.1	484.9	389.4	95.58	5.074		
14,200.0	8,966.2	14,234.0	8,956.9	46.4	50.5	88.91	-5,074.3	-1,314.5	484.9	388.8	96.15	5.043		
14,250.0	8,966.3	14,284.0	8,956.9	46.8	50.9	88.91	-5,124.3	-1,314.9	484.9	388.1	96.80	5.010		
14,300.0	8,966.3	14,334.0	8,956.9	47.1	51.2	88.91	-5,174.3	-1,315.3	484.9	387.5	97.44	4.977		
14,345.0	8,966.3	14,379.0	8,957.0	47.4	51.4	88.91	-5,219.3	-1,315.7	484.9	386.9	98.03	4.947		
14,400.0	8,966.4	14,434.0	8,957.0	47.8	51.8	88.91	-5,274.3	-1,316.2	484.9	386.2	98.74	4.911		
14,440.0	8,966.4	14,474.0	8,957.1	48.0	52.0	88.91	-5,314.3	-1,316.5	484.9	385.7	99.26	4.886		
14,500.0	8,966.4	14,534.0	8,957.1	48.4	52.4	88.91	-5,374.3	-1,317.0	484.9	384.9	100.04	4.847		

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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,535.0	8,966.4	14,569.0	8,957.1	48.7	52.6	88.91	-5,409.3	-1,317.3	484.9	384.4	100.50	4.825		
14,600.0	8,966.5	14,634.0	8,957.2	49.1	53.0	88.91	-5,474.3	-1,317.8	484.9	383.6	101.35	4.785		
14,630.0	8,966.5	14,664.0	8,957.2	49.3	53.2	88.91	-5,504.3	-1,318.1	484.9	383.2	101.74	4.766		
14,700.0	8,966.6	14,734.0	8,957.3	49.8	53.6	88.91	-5,574.3	-1,318.6	484.9	382.3	102.66	4.724		
14,725.0	8,966.6	14,759.0	8,957.3	50.0	53.8	88.91	-5,599.3	-1,318.8	484.9	381.9	102.99	4.708		
14,800.0	8,966.6	14,834.0	8,957.3	50.5	54.3	88.92	-5,674.3	-1,319.5	484.9	381.0	103.99	4.664		
14,820.0	8,966.6	14,854.0	8,957.4	50.6	54.4	88.92	-5,694.3	-1,319.6	484.9	380.7	104.25	4.652		
14,900.0	8,966.7	14,934.0	8,957.4	51.1	54.9	88.92	-5,774.3	-1,320.3	484.9	379.6	105.31	4.605		
14,915.0	8,966.7	14,949.0	8,957.4	51.2	55.0	88.92	-5,789.3	-1,320.4	484.9	379.4	105.51	4.596		
15,000.0	8,966.8	15,034.0	8,957.5	51.8	55.5	88.92	-5,874.3	-1,321.1	484.9	378.3	106.64	4.547		
15,010.0	8,966.8	15,044.0	8,957.5	51.9	55.6	88.92	-5,884.3	-1,321.2	484.9	378.2	106.78	4.542		
15,100.0	8,966.8	15,134.0	8,957.6	52.5	56.2	88.92	-5,974.3	-1,321.9	484.9	377.0	107.98	4.491		
15,105.0	8,966.8	15,139.0	8,957.6	52.5	56.2	88.92	-5,979.3	-1,322.0	484.9	376.9	108.05	4.488		
15,200.0	8,966.9	15,234.0	8,957.7	53.2	56.8	88.92	-6,074.3	-1,322.8	484.9	375.6	109.32	4.436		
15,295.0	8,967.0	15,329.0	8,957.7	53.8	57.4	88.92	-6,169.3	-1,323.6	484.9	374.3	110.60	4.385		
15,300.0	8,967.0	15,334.0	8,957.8	53.9	57.5	88.92	-6,174.3	-1,323.6	484.9	374.3	110.67	4.382		
15,390.0	8,967.0	15,424.0	8,957.8	54.5	58.0	88.93	-6,264.3	-1,324.3	484.9	373.1	111.88	4.334		
15,400.0	8,967.0	15,434.0	8,957.8	54.6	58.1	88.93	-6,274.3	-1,324.4	484.9	372.9	112.02	4.329		
15,485.0	8,967.1	15,519.0	8,957.9	55.2	58.7	88.93	-6,359.3	-1,325.1	484.9	371.8	113.17	4.285		
15,500.0	8,967.1	15,534.0	8,957.9	55.3	58.8	88.93	-6,374.3	-1,325.3	484.9	371.6	113.37	4.277		
15,580.0	8,967.1	15,614.0	8,958.0	55.8	59.3	88.93	-6,454.3	-1,325.9	484.9	370.5	114.46	4.237		
15,600.0	8,967.2	15,634.0	8,958.0	56.0	59.4	88.93	-6,474.3	-1,326.1	484.9	370.2	114.73	4.227		
15,675.0	8,967.2	15,709.0	8,958.1	56.5	59.9	88.93	-6,549.3	-1,326.7	484.9	369.2	115.76	4.189		
15,700.0	8,967.2	15,734.0	8,958.1	56.7	60.1	88.93	-6,574.3	-1,326.9	484.9	368.9	116.10	4.177		
15,770.0	8,967.3	15,804.0	8,958.1	57.1	60.5	88.93	-6,644.3	-1,327.5	484.9	367.9	117.05	4.143		
15,800.0	8,967.3	15,834.0	8,958.2	57.3	60.7	88.93	-6,674.3	-1,327.7	484.9	367.5	117.47	4.128		
15,865.0	8,967.3	15,899.0	8,958.2	57.8	61.1	88.93	-6,739.3	-1,328.3	484.9	366.6	118.36	4.097		
15,900.0	8,967.4	15,934.0	8,958.2	58.0	61.4	88.93	-6,774.3	-1,328.6	484.9	366.1	118.84	4.081		
15,960.0	8,967.4	15,994.0	8,958.3	58.5	61.8	88.93	-6,834.3	-1,329.1	484.9	365.3	119.66	4.053		
16,000.0	8,967.4	16,034.0	8,958.3	58.7	62.0	88.93	-6,874.3	-1,329.4	484.9	364.7	120.21	4.034		
16,055.0	8,967.5	16,089.0	8,958.4	59.1	62.4	88.94	-6,929.3	-1,329.9	484.9	364.0	120.97	4.009		
16,100.0	8,967.5	16,134.0	8,958.4	59.5	62.7	88.94	-6,974.3	-1,330.2	484.9	363.4	121.59	3.988		
16,150.0	8,967.5	16,184.0	8,958.4	59.8	63.0	88.94	-7,024.3	-1,330.6	484.9	362.7	122.28	3.966		
16,200.0	8,967.6	16,234.0	8,958.5	60.2	63.4	88.94	-7,074.3	-1,331.1	485.0	362.0	122.97	3.943		
16,245.0	8,967.6	16,279.0	8,958.5	60.5	63.7	88.94	-7,119.3	-1,331.4	485.0	361.4	123.60	3.924		
16,300.0	8,967.6	16,334.0	8,958.6	60.9	64.0	88.94	-7,174.3	-1,331.9	485.0	360.6	124.36	3.900		
16,340.0	8,967.7	16,374.0	8,958.6	61.1	64.3	88.94	-7,214.3	-1,332.2	485.0	360.0	124.92	3.882		
16,400.0	8,967.7	16,434.0	8,958.6	61.6	64.7	88.94	-7,274.3	-1,332.7	485.0	359.2	125.75	3.856		
16,435.0	8,967.7	16,469.0	8,958.7	61.8	65.0	88.94	-7,309.2	-1,333.0	485.0	358.7	126.24	3.842		
16,500.0	8,967.8	16,534.0	8,958.7	62.3	65.4	88.94	-7,374.2	-1,333.5	485.0	357.8	127.14	3.814		
16,530.0	8,967.8	16,564.0	8,958.7	62.5	65.6	88.94	-7,404.2	-1,333.8	485.0	357.4	127.56	3.802		
16,600.0	8,967.8	16,634.0	8,958.8	63.0	66.1	88.94	-7,474.2	-1,334.4	485.0	356.4	128.54	3.773		
16,625.0	8,967.8	16,659.0	8,958.8	63.2	66.2	88.94	-7,499.2	-1,334.6	485.0	356.1	128.89	3.763		
16,700.0	8,967.9	16,734.0	8,958.9	63.7	66.7	88.95	-7,574.2	-1,335.2	485.0	355.0	129.94	3.732		
16,720.0	8,967.9	16,754.0	8,958.9	63.8	66.9	88.95	-7,594.2	-1,335.4	485.0	354.7	130.22	3.724		
16,800.0	8,968.0	16,834.0	8,959.0	64.4	67.4	88.95	-7,674.2	-1,336.0	485.0	353.6	131.34	3.692		
16,815.0	8,968.0	16,849.0	8,959.0	64.5	67.5	88.95	-7,689.2	-1,336.1	485.0	353.4	131.55	3.687		
16,900.0	8,968.0	16,934.0	8,959.0	65.1	68.1	88.95	-7,774.2	-1,336.8	485.0	352.2	132.74	3.653		
16,910.0	8,968.0	16,944.0	8,959.0	65.2	68.2	88.95	-7,784.2	-1,336.9	485.0	352.1	132.88	3.649		
17,000.0	8,968.1	17,034.0	8,959.1	65.8	68.8	88.95	-7,874.2	-1,337.7	485.0	350.8	134.15	3.615		
17,005.0	8,968.1	17,039.0	8,959.1	65.9	68.8	88.95	-7,879.2	-1,337.7	485.0	350.7	134.22	3.613		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance							
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,100.0	8,968.2	17,134.0	8,959.2	66.6	69.5	88.95	-7,974.2	-1,338.5	485.0	349.4	135.56	3.577		
17,195.0	8,968.2	17,229.0	8,959.3	67.2	70.1	88.95	-8,069.2	-1,339.3	485.0	348.1	136.90	3.542		
17,200.0	8,968.2	17,234.0	8,959.3	67.3	70.2	88.95	-8,074.2	-1,339.3	485.0	348.0	136.97	3.541		
17,290.0	8,968.3	17,324.0	8,959.4	67.9	70.8	88.96	-8,164.2	-1,340.1	485.0	346.7	138.24	3.508		
17,300.0	8,968.3	17,334.0	8,959.4	68.0	70.9	88.96	-8,174.2	-1,340.2	485.0	346.6	138.38	3.504		
17,385.0	8,968.4	17,419.0	8,959.4	68.6	71.4	88.96	-8,259.2	-1,340.9	485.0	345.4	139.59	3.474		
17,400.0	8,968.4	17,434.0	8,959.4	68.7	71.5	88.96	-8,274.2	-1,341.0	485.0	345.2	139.80	3.469		
17,480.0	8,968.4	17,514.0	8,959.5	69.3	72.1	88.96	-8,354.2	-1,341.6	485.0	344.0	140.94	3.441		
17,500.0	8,968.4	17,534.0	8,959.5	69.4	72.2	88.96	-8,374.2	-1,341.8	485.0	343.7	141.22	3.434		
17,575.0	8,968.5	17,609.0	8,959.6	70.0	72.8	88.96	-8,449.2	-1,342.4	485.0	342.7	142.29	3.408		
17,600.0	8,968.5	17,634.0	8,959.6	70.2	72.9	88.96	-8,474.2	-1,342.6	485.0	342.3	142.64	3.400		
17,670.0	8,968.5	17,704.0	8,959.7	70.7	73.4	88.96	-8,544.2	-1,343.2	485.0	341.3	143.64	3.376		
17,700.0	8,968.6	17,734.0	8,959.7	70.9	73.6	88.96	-8,574.2	-1,343.5	485.0	340.9	144.07	3.366		
17,765.0	8,968.6	17,799.0	8,959.7	71.3	74.1	88.96	-8,639.2	-1,344.0	485.0	340.0	144.99	3.345		
17,800.0	8,968.6	17,834.0	8,959.8	71.6	74.3	88.96	-8,674.2	-1,344.3	485.0	339.5	145.49	3.333		
17,860.0	8,968.7	17,894.0	8,959.8	72.0	74.7	88.96	-8,734.2	-1,344.8	485.0	338.6	146.35	3.314		
17,900.0	8,968.7	17,934.0	8,959.8	72.3	75.0	88.97	-8,774.2	-1,345.1	485.0	338.0	146.92	3.301		
17,955.0	8,968.7	17,989.0	8,959.9	72.7	75.4	88.97	-8,829.2	-1,345.6	485.0	337.3	147.70	3.283		
18,000.0	8,968.8	18,034.0	8,959.9	73.1	75.7	88.97	-8,874.2	-1,346.0	485.0	336.6	148.35	3.269		
18,050.0	8,968.8	18,084.0	8,960.0	73.4	76.1	88.97	-8,924.2	-1,346.4	485.0	335.9	149.06	3.253		
18,100.0	8,968.8	18,134.0	8,960.0	73.8	76.4	88.97	-8,974.2	-1,346.8	485.0	335.2	149.78	3.238		
18,145.0	8,968.9	18,179.0	8,960.0	74.1	76.7	88.97	-9,019.2	-1,347.2	485.0	334.5	150.42	3.224		
18,200.0	8,968.9	18,234.0	8,960.1	74.5	77.1	88.97	-9,074.2	-1,347.6	485.0	333.7	151.21	3.207		
18,240.0	8,968.9	18,274.0	8,960.1	74.8	77.4	88.97	-9,114.2	-1,347.9	485.0	333.2	151.79	3.195		
18,300.0	8,969.0	18,334.0	8,960.2	75.2	77.8	88.97	-9,174.2	-1,348.4	485.0	332.3	152.65	3.177		
18,335.0	8,969.0	18,369.0	8,960.2	75.5	78.1	88.97	-9,209.2	-1,348.7	485.0	331.8	153.15	3.167		
18,400.0	8,969.0	18,434.0	8,960.2	76.0	78.5	88.97	-9,274.2	-1,349.3	485.0	330.9	154.09	3.147		
18,430.0	8,969.1	18,464.0	8,960.3	76.2	78.7	88.97	-9,304.2	-1,349.5	485.0	330.4	154.52	3.139		
18,500.0	8,969.1	18,534.0	8,960.3	76.7	79.2	88.97	-9,374.2	-1,350.1	485.0	329.4	155.52	3.118		
18,525.0	8,969.1	18,559.0	8,960.3	76.9	79.4	88.98	-9,399.2	-1,350.3	485.0	329.1	155.88	3.111		
18,600.0	8,969.2	18,634.0	8,960.4	77.4	79.9	88.98	-9,474.2	-1,350.9	485.0	328.0	156.97	3.090		
18,620.0	8,969.2	18,654.0	8,960.4	77.6	80.1	88.98	-9,494.2	-1,351.1	485.0	327.7	157.25	3.084		
18,700.0	8,969.2	18,734.0	8,960.5	78.1	80.6	88.98	-9,574.2	-1,351.7	485.0	326.6	158.41	3.061		
18,715.0	8,969.2	18,749.0	8,960.5	78.3	80.7	88.98	-9,589.2	-1,351.9	485.0	326.3	158.62	3.057		
18,800.0	8,969.3	18,834.0	8,960.6	78.9	81.3	88.98	-9,674.2	-1,352.6	485.0	325.1	159.85	3.034		
18,810.0	8,969.3	18,844.0	8,960.6	79.0	81.4	88.98	-9,684.2	-1,352.7	485.0	325.0	160.00	3.031		
18,900.0	8,969.4	18,934.0	8,960.6	79.6	82.1	88.98	-9,774.2	-1,353.4	485.0	323.7	161.30	3.007		
18,905.0	8,969.4	18,939.0	8,960.7	79.6	82.1	88.98	-9,779.2	-1,353.4	485.0	323.6	161.37	3.005		
19,000.0	8,969.4	19,034.0	8,960.7	80.3	82.8	88.98	-9,874.2	-1,354.2	485.0	322.2	162.74	2.980		
19,095.0	8,969.5	19,129.0	8,960.8	81.0	83.4	88.98	-9,969.2	-1,355.0	485.0	320.8	164.12	2.955		
19,100.0	8,969.5	19,134.0	8,960.8	81.1	83.5	88.98	-9,974.2	-1,355.1	485.0	320.8	164.19	2.954		
19,190.0	8,969.6	19,224.0	8,960.9	81.7	84.1	88.99	-10,064.2	-1,355.8	485.0	319.5	165.50	2.930		
19,200.0	8,969.6	19,234.0	8,960.9	81.8	84.2	88.99	-10,074.2	-1,355.9	485.0	319.3	165.64	2.928		
19,285.0	8,969.6	19,319.0	8,961.0	82.4	84.8	88.99	-10,159.2	-1,356.6	485.0	318.1	166.87	2.906		
19,300.0	8,969.6	19,334.0	8,961.0	82.5	84.9	88.99	-10,174.2	-1,356.7	485.0	317.9	167.09	2.902		
19,380.0	8,969.7	19,414.0	8,961.0	83.1	85.5	88.99	-10,254.1	-1,357.4	485.0	316.7	168.25	2.882		
19,400.0	8,969.7	19,434.0	8,961.0	83.3	85.6	88.99	-10,274.1	-1,357.5	485.0	316.4	168.54	2.877		
19,475.0	8,969.8	19,509.0	8,961.1	83.8	86.1	88.99	-10,349.1	-1,358.2	485.0	315.3	169.63	2.859		
19,500.0	8,969.8	19,534.0	8,961.1	84.0	86.3	88.99	-10,374.1	-1,358.4	485.0	315.0	170.00	2.853		
19,570.0	8,969.8	19,604.0	8,961.2	84.5	86.8	88.99	-10,444.1	-1,358.9	485.0	313.9	171.02	2.836		
19,600.0	8,969.8	19,634.0	8,961.2	84.7	87.0	88.99	-10,474.1	-1,359.2	485.0	313.5	171.45	2.829		

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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			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		
19,665.0	8,969.9	19,699.0	8,961.3	85.2	87.5	88.99	-10,539.1	-1,359.7	485.0	312.6	172.40	2.813		
19,700.0	8,969.9	19,734.0	8,961.3	85.5	87.8	88.99	-10,574.1	-1,360.0	485.0	312.1	172.91	2.805		
19,760.0	8,969.9	19,794.0	8,961.3	85.9	88.2	88.99	-10,634.1	-1,360.5	485.0	311.2	173.78	2.791		
19,800.0	8,970.0	19,834.0	8,961.4	86.2	88.5	89.00	-10,674.1	-1,360.8	485.0	310.6	174.37	2.781		
19,855.0	8,970.0	19,889.0	8,961.4	86.6	88.9	89.00	-10,729.1	-1,361.3	485.0	309.8	175.17	2.769		
19,900.0	8,970.0	19,934.0	8,961.5	87.0	89.2	89.00	-10,774.1	-1,361.7	485.0	309.1	175.83	2.758		
19,950.0	8,970.1	19,984.0	8,961.5	87.3	89.6	89.00	-10,824.1	-1,362.1	485.0	308.4	176.56	2.747		
20,000.0	8,970.1	20,034.0	8,961.5	87.7	89.9	89.00	-10,874.1	-1,362.5	485.0	307.7	177.29	2.736		
20,045.0	8,970.1	20,079.0	8,961.6	88.0	90.2	89.00	-10,919.1	-1,362.9	485.0	307.0	177.94	2.725		
20,100.0	8,970.2	20,134.0	8,961.6	88.4	90.6	89.00	-10,974.1	-1,363.3	485.0	306.2	178.75	2.713		
20,140.0	8,970.2	20,174.0	8,961.6	88.7	90.9	89.00	-11,014.1	-1,363.7	485.0	305.6	179.33	2.704		
20,200.0	8,970.2	20,234.0	8,961.7	89.2	91.4	89.00	-11,074.1	-1,364.2	485.0	304.8	180.21	2.691		
20,235.0	8,970.3	20,269.0	8,961.7	89.4	91.6	89.00	-11,109.1	-1,364.4	485.0	304.2	180.72	2.684		
20,300.0	8,970.3	20,334.0	8,961.8	89.9	92.1	89.00	-11,174.1	-1,365.0	485.0	303.3	181.67	2.669		
20,330.0	8,970.3	20,364.0	8,961.8	90.1	92.3	89.00	-11,204.1	-1,365.2	485.0	302.9	182.11	2.663		
20,400.0	8,970.4	20,434.0	8,961.9	90.6	92.8	89.01	-11,274.1	-1,365.8	485.0	301.8	183.14	2.648		
20,425.0	8,970.4	20,459.0	8,961.9	90.8	93.0	89.01	-11,299.1	-1,366.0	485.0	301.5	183.50	2.643		
20,500.0	8,970.4	20,534.0	8,961.9	91.4	93.5	89.01	-11,374.1	-1,366.6	485.0	300.4	184.60	2.627		
20,520.0	8,970.5	20,554.0	8,961.9	91.5	93.7	89.01	-11,394.1	-1,366.8	485.0	300.1	184.89	2.623		
20,600.0	8,970.5	20,634.0	8,962.0	92.1	94.2	89.01	-11,474.1	-1,367.5	485.0	298.9	186.07	2.606		
20,615.0	8,970.5	20,649.0	8,962.0	92.2	94.3	89.01	-11,489.1	-1,367.6	485.0	298.7	186.29	2.603		
20,700.0	8,970.6	20,734.0	8,962.1	92.9	95.0	89.01	-11,574.1	-1,368.3	485.0	297.4	187.53	2.586		
20,710.0	8,970.6	20,744.0	8,962.1	92.9	95.0	89.01	-11,584.1	-1,368.4	485.0	297.3	187.68	2.584		
20,800.0	8,970.6	20,834.0	8,962.2	93.6	95.7	89.01	-11,674.1	-1,369.1	485.0	296.0	189.00	2.566		
20,805.0	8,970.6	20,839.0	8,962.2	93.6	95.7	89.01	-11,679.1	-1,369.2	485.0	295.9	189.08	2.565		
20,900.0	8,970.7	20,934.0	8,962.3	94.3	96.4	89.01	-11,774.1	-1,370.0	485.0	294.5	190.47	2.546		
20,995.0	8,970.8	21,029.0	8,962.3	95.1	97.1	89.01	-11,869.1	-1,370.7	485.0	293.1	191.87	2.528		
21,000.0	8,970.8	21,034.0	8,962.3	95.1	97.1	89.01	-11,874.1	-1,370.8	485.0	293.0	191.94	2.527		
21,090.0	8,970.8	21,124.0	8,962.4	95.8	97.8	89.02	-11,964.1	-1,371.5	485.0	291.7	193.27	2.509		
21,100.0	8,970.8	21,134.0	8,962.4	95.8	97.9	89.02	-11,974.1	-1,371.6	485.0	291.6	193.41	2.507		
21,185.0	8,970.9	21,219.0	8,962.5	96.5	98.5	89.02	-12,059.1	-1,372.3	485.0	290.3	194.66	2.491		
21,200.0	8,970.9	21,234.0	8,962.5	96.6	98.6	89.02	-12,074.1	-1,372.4	485.0	290.1	194.89	2.489		
21,280.0	8,971.0	21,314.0	8,962.6	97.2	99.2	89.02	-12,154.1	-1,373.1	485.0	288.9	196.06	2.474		
21,300.0	8,971.0	21,334.0	8,962.6	97.3	99.3	89.02	-12,174.1	-1,373.3	485.0	288.6	196.36	2.470		
21,375.0	8,971.0	21,409.0	8,962.6	97.9	99.9	89.02	-12,249.1	-1,373.9	485.0	287.5	197.46	2.456		
21,400.0	8,971.0	21,434.0	8,962.7	98.1	100.0	89.02	-12,274.1	-1,374.1	485.0	287.1	197.83	2.451		
21,470.0	8,971.1	21,504.0	8,962.7	98.6	100.6	89.02	-12,344.1	-1,374.7	485.0	286.1	198.86	2.439		
21,500.0	8,971.1	21,534.0	8,962.7	98.8	100.8	89.02	-12,374.1	-1,374.9	485.0	285.7	199.31	2.433		
21,565.0	8,971.2	21,599.0	8,962.8	99.3	101.2	89.02	-12,439.1	-1,375.5	485.0	284.7	200.26	2.422		
21,600.0	8,971.2	21,634.0	8,962.8	99.5	101.5	89.02	-12,474.1	-1,375.7	485.0	284.2	200.78	2.415		
21,660.0	8,971.2	21,694.0	8,962.9	100.0	101.9	89.03	-12,534.1	-1,376.2	485.0	283.3	201.67	2.405		
21,700.0	8,971.2	21,734.0	8,962.9	100.3	102.2	89.03	-12,574.1	-1,376.6	485.0	282.7	202.26	2.398		
21,755.0	8,971.3	21,789.0	8,962.9	100.7	102.6	89.03	-12,629.1	-1,377.0	485.0	281.9	203.07	2.388		
21,800.0	8,971.3	21,834.0	8,963.0	101.0	103.0	89.03	-12,674.1	-1,377.4	485.0	281.2	203.73	2.380		
21,850.0	8,971.3	21,884.0	8,963.0	101.4	103.3	89.03	-12,724.1	-1,377.8	485.0	280.5	204.47	2.372		
21,900.0	8,971.4	21,934.0	8,963.1	101.8	103.7	89.03	-12,774.1	-1,378.2	485.0	279.8	205.21	2.363		
21,945.0	8,971.4	21,979.0	8,963.1	102.1	104.0	89.03	-12,819.1	-1,378.6	485.0	279.1	205.88	2.356		
22,000.0	8,971.4	22,034.0	8,963.1	102.5	104.4	89.03	-12,874.1	-1,379.1	485.0	278.3	206.69	2.346		
22,040.0	8,971.5	22,074.0	8,963.2	102.8	104.7	89.03	-12,914.1	-1,379.4	485.0	277.7	207.28	2.340		
22,100.0	8,971.5	22,134.0	8,963.2	103.3	105.2	89.03	-12,974.1	-1,379.9	485.0	276.8	208.17	2.330		
22,135.0	8,971.5	22,169.0	8,963.2	103.5	105.4	89.03	-13,009.1	-1,380.2	485.0	276.3	208.69	2.324		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)			
22,200.0	8,971.6	22,234.0	8,963.3	104.0	105.9	89.03	-13,074.1	-1,380.7	485.0	275.3	209.65	2.313	
22,230.0	8,971.6	22,264.0	8,963.3	104.2	106.1	89.03	-13,104.0	-1,381.0	485.0	274.9	210.09	2.308	
22,300.0	8,971.6	22,334.0	8,963.4	104.8	106.6	89.04	-13,174.0	-1,381.5	485.0	273.9	211.13	2.297	
22,325.0	8,971.7	22,359.0	8,963.4	104.9	106.8	89.04	-13,199.0	-1,381.7	485.0	273.5	211.50	2.293	
22,400.0	8,971.7	22,434.0	8,963.5	105.5	107.3	89.04	-13,274.0	-1,382.4	485.0	272.4	212.61	2.281	
22,420.0	8,971.7	22,454.0	8,963.5	105.7	107.5	89.04	-13,294.0	-1,382.5	485.0	272.1	212.91	2.278	
22,500.0	8,971.8	22,534.0	8,963.5	106.3	108.1	89.04	-13,374.0	-1,383.2	485.0	270.9	214.09	2.265	
22,515.0	8,971.8	22,549.0	8,963.6	106.4	108.2	89.04	-13,389.0	-1,383.3	485.0	270.7	214.31	2.263	
22,600.0	8,971.8	22,634.0	8,963.6	107.0	108.8	89.04	-13,474.0	-1,384.0	485.0	269.4	215.57	2.250	
22,610.0	8,971.9	22,644.0	8,963.6	107.1	108.9	89.04	-13,484.0	-1,384.1	485.0	269.3	215.72	2.248	
22,700.0	8,971.9	22,734.0	8,963.7	107.7	109.6	89.04	-13,574.0	-1,384.8	485.0	267.9	217.06	2.234	
22,705.0	8,971.9	22,739.0	8,963.7	107.8	109.6	89.04	-13,579.0	-1,384.9	485.0	267.9	217.13	2.234	
22,800.0	8,972.0	22,834.0	8,963.8	108.5	110.3	89.04	-13,674.0	-1,385.7	485.0	266.4	218.54	2.219	
22,895.0	8,972.0	22,929.0	8,963.9	109.2	111.0	89.05	-13,769.0	-1,386.5	485.0	265.0	219.95	2.205	
22,900.0	8,972.0	22,934.0	8,963.9	109.2	111.0	89.05	-13,774.0	-1,386.5	485.0	265.0	220.02	2.204	
22,990.0	8,972.1	23,024.0	8,963.9	109.9	111.7	89.05	-13,864.0	-1,387.2	485.0	263.6	221.36	2.191	
23,000.0	8,972.1	23,034.0	8,963.9	110.0	111.8	89.05	-13,874.0	-1,387.3	485.0	263.5	221.51	2.189	
23,085.0	8,972.2	23,119.0	8,964.0	110.6	112.4	89.05	-13,959.0	-1,388.0	485.0	262.2	222.77	2.177	
23,100.0	8,972.2	23,134.0	8,964.0	110.7	112.5	89.05	-13,974.0	-1,388.2	485.0	262.0	222.99	2.175	
23,180.0	8,972.2	23,214.0	8,964.1	111.3	113.1	89.05	-14,054.0	-1,388.8	485.0	260.8	224.18	2.163	
23,200.0	8,972.2	23,234.0	8,964.1	111.5	113.2	89.05	-14,074.0	-1,389.0	485.0	260.5	224.48	2.160	
23,275.0	8,972.3	23,309.0	8,964.2	112.0	113.8	89.05	-14,149.0	-1,389.6	485.0	259.4	225.60	2.150	
23,300.0	8,972.3	23,334.0	8,964.2	112.2	114.0	89.05	-14,174.0	-1,389.8	485.0	259.0	225.97	2.146	
23,370.0	8,972.4	23,404.0	8,964.2	112.8	114.5	89.05	-14,244.0	-1,390.4	485.0	258.0	227.01	2.136	
23,400.0	8,972.4	23,434.0	8,964.3	113.0	114.7	89.05	-14,274.0	-1,390.6	485.0	257.5	227.45	2.132	
23,465.0	8,972.4	23,499.0	8,964.3	113.5	115.2	89.05	-14,339.0	-1,391.2	485.0	256.6	228.42	2.123	
23,500.0	8,972.4	23,534.0	8,964.3	113.7	115.4	89.05	-14,374.0	-1,391.5	485.0	256.0	228.94	2.118	
23,560.0	8,972.5	23,594.0	8,964.4	114.2	115.9	89.06	-14,434.0	-1,392.0	485.0	255.2	229.83	2.110	
23,600.0	8,972.5	23,634.0	8,964.4	114.5	116.2	89.06	-14,474.0	-1,392.3	485.0	254.6	230.43	2.105	
23,655.0	8,972.6	23,689.0	8,964.5	114.9	116.6	89.06	-14,529.0	-1,392.8	485.0	253.7	231.25	2.097	
23,700.0	8,972.6	23,734.0	8,964.5	115.2	116.9	89.06	-14,574.0	-1,393.1	485.0	253.1	231.92	2.091	
23,750.0	8,972.6	23,784.0	8,964.5	115.6	117.3	89.06	-14,624.0	-1,393.5	485.0	252.3	232.66	2.085	
23,800.0	8,972.6	23,834.0	8,964.6	116.0	117.6	89.06	-14,674.0	-1,394.0	485.0	251.6	233.41	2.078	
23,845.0	8,972.7	23,879.0	8,964.6	116.3	118.0	89.06	-14,719.0	-1,394.3	485.0	250.9	234.08	2.072	
23,900.0	8,972.7	23,934.0	8,964.7	116.7	118.4	89.06	-14,774.0	-1,394.8	485.0	250.1	234.90	2.065	
23,940.0	8,972.7	23,974.0	8,964.7	117.0	118.7	89.06	-14,814.0	-1,395.1	485.0	249.5	235.49	2.059	
24,000.0	8,972.8	24,034.0	8,964.7	117.5	119.1	89.06	-14,874.0	-1,395.6	485.0	248.6	236.39	2.052	
24,035.0	8,972.8	24,069.0	8,964.8	117.7	119.4	89.06	-14,909.0	-1,395.9	485.0	248.1	236.91	2.047	
24,100.0	8,972.9	24,134.0	8,964.8	118.2	119.9	89.06	-14,974.0	-1,396.4	485.0	247.1	237.88	2.039	
24,130.0	8,972.9	24,164.0	8,964.9	118.4	120.1	89.06	-15,004.0	-1,396.7	485.0	246.7	238.33	2.035	
24,193.6	8,972.9	24,227.7	8,964.9	118.9	120.6	89.07	-15,067.6	-1,397.2	485.0	245.7	239.27	2.027	
24,200.0	8,972.9	24,234.0	8,964.9	119.0	120.6	89.07	-15,074.0	-1,397.3	485.0	245.6	239.37	2.026	
24,225.0	8,972.9	24,259.0	8,964.9	119.2	120.8	89.07	-15,099.0	-1,397.5	485.0	245.2	239.74	2.023	
24,300.0	8,973.0	24,334.0	8,965.0	119.7	121.3	89.07	-15,174.0	-1,398.1	485.0	244.1	240.86	2.014	
24,300.0	8,973.0	24,334.0	8,965.0	119.7	121.3	89.07	-15,174.0	-1,398.1	485.0	244.1	240.86	2.014	
24,320.0	8,973.0	24,345.4	8,965.0	119.9	121.4	89.07	-15,185.3	-1,398.2	485.1	243.8	241.24	2.011	
24,323.6	8,973.0	24,345.4	8,965.0	119.9	121.4	89.07	-15,185.3	-1,398.2	485.1	243.8	241.30	2.011 SF	

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS					Rule Assigned:		Offset Well Error: 3.0 usft					
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	
4,465.0	4,390.7	4,778.0	4,694.4	16.0	17.5	-22.93	244.2	-1,874.4	1,316.1	1,285.2	30.90	42.585		
4,500.0	4,424.7	4,809.6	4,725.1	16.2	17.6	-22.90	247.9	-1,867.7	1,301.1	1,269.9	31.18	41.727		
4,560.0	4,482.9	4,861.0	4,774.9	16.5	17.9	-22.85	253.8	-1,856.8	1,275.5	1,243.8	31.65	40.300		
4,600.0	4,521.7	4,887.1	4,800.3	16.6	18.0	-22.82	256.7	-1,851.4	1,258.6	1,226.7	31.96	39.378		
4,634.9	4,555.6	4,900.0	4,812.9	16.8	18.0	-22.81	258.2	-1,848.8	1,244.2	1,212.0	32.23	38.607		
4,655.0	4,575.1	4,923.3	4,835.6	16.9	18.2	-22.76	260.6	-1,844.2	1,235.9	1,203.6	32.39	38.159		
4,700.0	4,618.9	4,953.3	4,864.9	17.1	18.3	-22.67	263.7	-1,838.6	1,218.1	1,185.3	32.75	37.197		
4,750.0	4,667.6	5,000.0	4,910.7	17.3	18.5	-22.57	268.1	-1,830.4	1,199.1	1,165.9	33.16	36.167		
4,800.0	4,716.3	5,021.1	4,931.4	17.6	18.6	-22.49	270.0	-1,826.9	1,180.8	1,147.3	33.55	35.194		
4,845.0	4,760.3	5,052.1	4,962.0	17.8	18.8	-22.42	272.7	-1,822.0	1,165.2	1,131.3	33.91	34.363		
4,900.0	4,814.2	5,100.0	5,009.2	18.0	19.0	-22.34	276.5	-1,815.0	1,147.1	1,112.7	34.35	33.393		
4,940.0	4,853.5	5,118.6	5,027.5	18.2	19.1	-22.28	277.9	-1,812.5	1,134.5	1,099.8	34.66	32.736		
5,000.0	4,912.4	5,161.2	5,069.7	18.5	19.3	-22.22	280.8	-1,807.1	1,116.8	1,081.7	35.12	31.800		
5,035.0	4,946.9	5,186.3	5,094.5	18.6	19.4	-22.18	282.4	-1,804.2	1,107.1	1,071.7	35.39	31.285		
5,100.0	5,010.9	5,233.2	5,141.2	18.9	19.6	-22.13	285.1	-1,799.2	1,090.2	1,054.3	35.87	30.391		
5,130.0	5,040.6	5,255.1	5,162.9	19.0	19.7	-22.12	286.2	-1,797.2	1,082.9	1,046.9	36.09	30.005		
5,200.0	5,109.8	5,300.0	5,207.6	19.3	19.9	-22.08	288.2	-1,793.4	1,067.4	1,030.8	36.59	29.168		
5,225.0	5,134.5	5,324.8	5,232.3	19.4	20.0	-22.08	289.2	-1,791.5	1,062.2	1,025.4	36.77	28.884		
5,300.0	5,208.8	5,380.4	5,287.8	19.8	20.2	-22.08	291.1	-1,788.1	1,048.3	1,011.0	37.29	28.111		
5,320.0	5,228.7	5,400.0	5,307.3	19.8	20.2	-22.09	291.6	-1,787.1	1,044.9	1,007.5	37.43	27.914		
5,400.0	5,308.1	5,455.3	5,362.6	20.2	20.4	-22.12	292.8	-1,785.0	1,033.1	995.1	37.93	27.234		
5,415.0	5,323.0	5,466.6	5,373.9	20.2	20.5	-22.13	293.0	-1,784.7	1,031.1	993.1	38.02	27.117		
5,500.0	5,407.6	5,530.8	5,438.0	20.6	20.6	-22.20	293.6	-1,783.6	1,021.8	983.3	38.49	26.548		
5,510.0	5,417.5	5,538.3	5,445.6	20.6	20.6	-22.21	293.6	-1,783.5	1,020.8	982.3	38.53	26.493		
5,600.0	5,507.2	5,623.2	5,530.4	20.9	20.7	-22.33	293.6	-1,783.5	1,013.8	974.9	38.89	26.068		
5,605.0	5,512.2	5,628.1	5,535.4	21.0	20.7	-22.34	293.6	-1,783.5	1,013.5	974.6	38.91	26.046		
5,700.0	5,607.0	5,722.9	5,630.2	21.3	20.7	-22.45	293.6	-1,783.5	1,007.6	968.3	39.27	25.657		
5,795.0	5,701.9	5,817.8	5,725.1	21.6	20.7	-22.54	293.6	-1,783.5	1,003.2	963.6	39.61	25.326		
5,800.0	5,706.9	5,822.8	5,730.1	21.6	20.7	-22.54	293.6	-1,783.5	1,003.0	963.4	39.63	25.310		
5,890.0	5,796.8	5,912.8	5,820.0	21.9	20.8	-22.60	293.6	-1,783.5	1,000.3	960.3	39.92	25.053		
5,900.0	5,806.8	5,922.8	5,830.0	21.9	20.8	-22.60	293.6	-1,783.5	1,000.0	960.1	39.96	25.027		
5,985.0	5,891.8	6,007.7	5,915.0	22.2	20.8	-22.63	293.6	-1,783.5	998.8	958.6	40.19	24.848		
6,000.0	5,906.8	6,022.7	5,930.0	22.2	20.8	-22.63	293.6	-1,783.5	998.7	958.4	40.24	24.820		
6,035.2	5,942.0	6,057.9	5,965.2	22.2	20.8	-91.01	293.6	-1,783.5	998.6	958.3	40.29	24.787		
6,080.0	5,986.8	6,102.7	6,010.0	22.2	20.9	-91.01	293.6	-1,783.5	998.6	958.2	40.32	24.768		
6,100.0	6,006.8	6,122.7	6,030.0	22.2	20.9	-91.01	293.6	-1,783.5	998.6	958.2	40.33	24.759		
6,175.0	6,081.8	6,197.7	6,105.0	22.3	20.9	-91.01	293.6	-1,783.5	998.6	958.2	40.39	24.720		
6,200.0	6,106.8	6,222.7	6,130.0	22.3	20.9	-91.01	293.6	-1,783.5	998.6	958.1	40.42	24.707		
6,270.0	6,176.8	6,292.7	6,200.0	22.3	20.9	-91.01	293.6	-1,783.5	998.6	958.1	40.48	24.671		
6,300.0	6,206.8	6,322.7	6,230.0	22.3	21.0	-91.01	293.6	-1,783.5	998.6	958.1	40.50	24.655		
6,365.0	6,271.8	6,387.7	6,295.0	22.3	21.0	-91.01	293.6	-1,783.5	998.6	958.0	40.56	24.621		
6,400.0	6,306.8	6,422.7	6,330.0	22.4	21.0	-91.01	293.6	-1,783.5	998.6	958.0	40.59	24.603		
6,460.0	6,366.8	6,482.7	6,390.0	22.4	21.0	-91.01	293.6	-1,783.5	998.6	957.9	40.64	24.572		
6,500.0	6,406.8	6,522.7	6,430.0	22.4	21.0	-91.01	293.6	-1,783.5	998.6	957.9	40.67	24.551		
6,555.0	6,461.8	6,577.7	6,485.0	22.4	21.1	-91.01	293.6	-1,783.5	998.6	957.8	40.72	24.522		
6,600.0	6,506.8	6,622.7	6,530.0	22.4	21.1	-91.01	293.6	-1,783.5	998.6	957.8	40.76	24.499		
6,650.0	6,556.8	6,672.7	6,580.0	22.5	21.1	-91.01	293.6	-1,783.5	998.6	957.8	40.80	24.473		
6,700.0	6,606.8	6,722.7	6,630.0	22.5	21.1	-91.01	293.6	-1,783.5	998.6	957.7	40.85	24.447		
6,745.0	6,651.8	6,767.7	6,675.0	22.5	21.2	-91.01	293.6	-1,783.5	998.6	957.7	40.89	24.423		
6,800.0	6,706.8	6,822.7	6,730.0	22.5	21.2	-91.01	293.6	-1,783.5	998.6	957.6	40.93	24.394		
6,840.0	6,746.8	6,862.7	6,770.0	22.5	21.2	-91.01	293.6	-1,783.5	998.6	957.6	40.97	24.373		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
6,900.0	6,806.8	6,922.7	6,830.0	22.6	21.2	-91.01		293.6	-1,783.5	998.6	957.5	41.02	24.342	
6,935.0	6,841.8	6,957.7	6,865.0	22.6	21.2	-91.01		293.6	-1,783.5	998.6	957.5	41.05	24.324	
7,000.0	6,906.8	7,022.7	6,930.0	22.6	21.3	-91.01		293.6	-1,783.5	998.6	957.4	41.11	24.290	
7,030.0	6,936.8	7,052.7	6,960.0	22.6	21.3	-91.01		293.6	-1,783.5	998.6	957.4	41.14	24.274	
7,100.0	7,006.8	7,122.7	7,030.0	22.6	21.3	-91.01		293.6	-1,783.5	998.6	957.4	41.20	24.237	
7,125.0	7,031.8	7,147.7	7,055.0	22.6	21.3	-91.01		293.6	-1,783.5	998.6	957.3	41.22	24.224	
7,200.0	7,106.8	7,222.7	7,130.0	22.7	21.4	-91.01		293.6	-1,783.5	998.6	957.3	41.29	24.185	
7,220.0	7,126.8	7,242.7	7,150.0	22.7	21.4	-91.01		293.6	-1,783.5	998.6	957.2	41.31	24.174	
7,300.0	7,206.8	7,322.7	7,230.0	22.7	21.4	-91.01		293.6	-1,783.5	998.6	957.2	41.38	24.132	
7,315.0	7,221.8	7,337.7	7,245.0	22.7	21.4	-91.01		293.6	-1,783.5	998.6	957.2	41.39	24.124	
7,400.0	7,306.8	7,422.7	7,330.0	22.8	21.4	-91.01		293.6	-1,783.5	998.6	957.1	41.47	24.080	
7,410.0	7,316.8	7,432.7	7,340.0	22.8	21.5	-91.01		293.6	-1,783.5	998.6	957.1	41.48	24.074	
7,500.0	7,406.8	7,522.7	7,430.0	22.8	21.5	-91.01		293.6	-1,783.5	998.6	957.0	41.56	24.027	
7,505.0	7,411.8	7,527.7	7,435.0	22.8	21.5	-91.01		293.6	-1,783.5	998.6	957.0	41.56	24.024	
7,600.0	7,506.8	7,622.7	7,530.0	22.8	21.5	-91.01		293.6	-1,783.5	998.6	956.9	41.65	23.974	
7,695.0	7,601.8	7,717.7	7,625.0	22.9	21.6	-91.01		293.6	-1,783.5	998.6	956.8	41.74	23.924	
7,700.0	7,606.8	7,722.7	7,630.0	22.9	21.6	-91.01		293.6	-1,783.5	998.6	956.8	41.74	23.922	
7,790.0	7,696.8	7,812.7	7,720.0	22.9	21.6	-91.01		293.6	-1,783.5	998.6	956.7	41.83	23.874	
7,800.0	7,706.8	7,822.7	7,730.0	22.9	21.6	-91.01		293.6	-1,783.5	998.6	956.7	41.83	23.869	
7,885.0	7,791.8	7,907.7	7,815.0	23.0	21.7	-91.01		293.6	-1,783.5	998.6	956.6	41.91	23.824	
7,900.0	7,806.8	7,922.7	7,830.0	23.0	21.7	-91.01		293.6	-1,783.5	998.6	956.6	41.93	23.816	
7,980.0	7,886.8	8,002.7	7,910.0	23.0	21.7	-91.01		293.6	-1,783.5	998.6	956.6	42.00	23.774	
8,000.0	7,906.8	8,022.7	7,930.0	23.0	21.7	-91.01		293.6	-1,783.5	998.6	956.5	42.02	23.764	
8,075.0	7,981.8	8,097.7	8,005.0	23.0	21.8	-91.01		293.6	-1,783.5	998.6	956.5	42.09	23.724	
8,100.0	8,006.8	8,122.7	8,030.0	23.0	21.8	-91.01		293.6	-1,783.5	998.6	956.4	42.11	23.711	
8,170.0	8,076.8	8,192.7	8,100.0	23.1	21.8	-91.01		293.6	-1,783.5	998.6	956.4	42.18	23.674	
8,200.0	8,106.8	8,222.7	8,130.0	23.1	21.8	-91.01		293.6	-1,783.5	998.6	956.3	42.21	23.658	
8,265.0	8,171.8	8,287.7	8,195.0	23.1	21.9	-91.01		293.6	-1,783.5	998.6	956.3	42.27	23.624	
8,300.0	8,206.8	8,322.7	8,230.0	23.1	21.9	-91.01		293.6	-1,783.5	998.6	956.3	42.30	23.606	
8,360.0	8,266.8	8,382.7	8,290.0	23.2	21.9	-91.01		293.6	-1,783.5	998.6	956.2	42.36	23.574	
8,400.0	8,306.8	8,422.7	8,330.0	23.2	21.9	-91.01		293.6	-1,783.5	998.6	956.2	42.39	23.554	
8,455.0	8,361.8	8,477.7	8,385.0	23.2	21.9	-91.01		293.6	-1,783.5	998.6	956.1	42.44	23.531 CC	
8,483.2	8,390.0	8,505.1	8,412.3	23.2	21.9	-91.03		293.3	-1,783.5	998.6	956.1	42.45	23.523	
8,500.0	8,406.8	8,521.1	8,428.3	23.2	22.0	88.47		292.5	-1,783.5	998.6	956.1	42.45	23.522	
8,550.0	8,456.7	8,568.7	8,475.7	23.2	22.0	88.38		287.6	-1,783.6	998.6	956.2	42.46	23.518	
8,600.0	8,506.0	8,616.3	8,522.4	23.2	22.0	88.30		278.8	-1,783.6	998.7	956.2	42.47	23.516	
8,645.0	8,549.7	8,659.0	8,563.6	23.2	22.0	88.25		267.6	-1,783.7	998.7	956.2	42.47	23.515	
8,650.0	8,554.5	8,663.7	8,568.1	23.2	22.0	88.24		266.2	-1,783.7	998.7	956.2	42.47	23.515	
8,700.0	8,601.7	8,711.1	8,612.6	23.3	22.0	88.19		249.9	-1,783.9	998.7	956.3	42.47	23.517	
8,740.0	8,638.3	8,750.0	8,648.0	23.3	22.1	88.16		233.8	-1,784.0	998.8	956.3	42.47	23.519	
8,740.5	8,638.7	8,750.0	8,648.0	23.3	22.1	88.16		233.8	-1,784.0	998.8	956.3	42.47	23.519	
8,750.0	8,647.3	8,758.4	8,655.5	23.3	22.1	88.15		230.0	-1,784.1	998.8	956.3	42.47	23.519	
8,800.0	8,690.9	8,805.7	8,696.6	23.3	22.1	88.13		206.6	-1,784.3	998.8	956.3	42.46	23.521	
8,835.0	8,720.1	8,838.8	8,724.1	23.3	22.1	88.12		188.3	-1,784.4	998.8	956.4	42.46	23.523	
8,850.0	8,732.3	8,852.9	8,735.6	23.3	22.1	88.12		179.9	-1,784.5	998.8	956.4	42.46	23.523	
8,900.0	8,771.0	8,900.0	8,772.1	23.3	22.1	88.12		150.3	-1,784.8	998.8	956.4	42.46	23.523	
8,930.0	8,792.9	8,928.5	8,793.0	23.4	22.2	88.13		130.9	-1,784.9	998.8	956.4	42.46	23.522	
8,950.0	8,806.9	8,947.5	8,806.4	23.4	22.2	88.14		117.5	-1,785.1	998.9	956.4	42.47	23.521	
9,000.0	8,839.5	8,994.8	8,837.7	23.4	22.2	88.17		82.0	-1,785.4	998.9	956.4	42.48	23.515	
9,025.0	8,854.6	9,018.4	8,852.2	23.4	22.2	88.19		63.3	-1,785.5	998.9	956.4	42.49	23.510	
9,050.0	8,868.8	9,042.1	8,866.0	23.4	22.2	88.21		44.1	-1,785.7	998.9	956.4	42.50	23.505	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		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)			
9,100.0	8,894.4	9,089.5	8,891.1	23.5	22.3	88.27	3.9	-1,786.1	998.8	956.3	42.52	23.489	
9,120.0	8,903.6	9,108.5	8,900.2	23.5	22.3	88.29	-12.8	-1,786.2	998.8	956.3	42.54	23.481	
9,150.0	8,916.2	9,137.1	8,912.9	23.5	22.3	88.34	-38.4	-1,786.4	998.8	956.3	42.56	23.468	
9,200.0	8,933.9	9,184.7	8,931.1	23.6	22.4	88.42	-82.3	-1,786.8	998.8	956.2	42.61	23.440	
9,215.0	8,938.5	9,200.0	8,936.1	23.6	22.4	88.45	-96.8	-1,787.0	998.8	956.2	42.63	23.429	
9,250.0	8,947.6	9,232.4	8,945.6	23.6	22.4	88.51	-127.8	-1,787.2	998.8	956.1	42.67	23.405	
9,300.0	8,957.0	9,280.2	8,956.3	23.7	22.5	88.61	-174.4	-1,787.6	998.8	956.0	42.75	23.363	
9,310.0	8,958.3	9,289.8	8,958.0	23.7	22.5	88.64	-183.8	-1,787.7	998.8	956.0	42.77	23.354	
9,350.0	8,962.0	9,328.3	8,963.1	23.7	22.5	88.73	-221.9	-1,788.1	998.8	955.9	42.84	23.314	
9,382.9	8,963.0	9,359.9	8,965.4	23.8	22.5	88.81	-253.5	-1,788.3	998.8	955.9	42.90	23.279	
9,392.3	8,963.0	9,369.0	8,965.8	23.8	22.6	88.83	-262.5	-1,788.4	998.8	955.8	42.92	23.268	
9,400.0	8,963.0	9,376.4	8,965.9	23.8	22.6	88.84	-270.0	-1,788.5	998.8	955.8	42.94	23.260	
9,405.0	8,963.0	9,381.3	8,966.0	23.8	22.6	88.84	-274.8	-1,788.5	998.8	955.8	42.95	23.253	
9,500.0	8,963.1	9,476.1	8,966.1	23.9	22.7	88.84	-369.7	-1,789.4	998.8	955.6	43.21	23.116	
9,595.0	8,963.1	9,571.1	8,966.2	24.1	22.8	88.84	-464.7	-1,790.2	998.9	955.4	43.52	22.954	
9,600.0	8,963.1	9,576.1	8,966.2	24.1	22.8	88.84	-469.7	-1,790.3	998.9	955.3	43.53	22.946	
9,690.0	8,963.2	9,666.1	8,966.3	24.3	23.0	88.85	-559.7	-1,791.1	998.9	955.1	43.87	22.771	
9,700.0	8,963.2	9,676.1	8,966.3	24.3	23.0	88.85	-569.7	-1,791.1	998.9	955.0	43.91	22.751	
9,785.0	8,963.3	9,761.1	8,966.4	24.5	23.2	88.85	-654.7	-1,791.9	999.0	954.7	44.27	22.568	
9,800.0	8,963.3	9,776.1	8,966.4	24.5	23.2	88.85	-669.7	-1,792.0	999.0	954.7	44.33	22.535	
9,880.0	8,963.3	9,856.1	8,966.5	24.7	23.3	88.85	-749.7	-1,792.7	999.0	954.3	44.71	22.346	
9,900.0	8,963.3	9,876.1	8,966.5	24.7	23.4	88.85	-769.7	-1,792.9	999.0	954.2	44.80	22.299	
9,975.0	8,963.4	9,951.1	8,966.6	24.9	23.6	88.85	-844.7	-1,793.6	999.1	953.9	45.19	22.108	
10,000.0	8,963.4	9,976.1	8,966.6	25.0	23.6	88.85	-869.7	-1,793.8	999.1	953.8	45.32	22.045	
10,070.0	8,963.5	10,046.1	8,966.7	25.1	23.8	88.85	-939.6	-1,794.4	999.1	953.4	45.71	21.856	
10,100.0	8,963.5	10,076.1	8,966.7	25.2	23.8	88.85	-969.6	-1,794.7	999.2	953.3	45.89	21.775	
10,165.0	8,963.5	10,141.1	8,966.8	25.4	24.0	88.86	-1,034.6	-1,795.3	999.2	952.9	46.28	21.591	
10,200.0	8,963.5	10,176.1	8,966.8	25.5	24.1	88.86	-1,069.6	-1,795.6	999.2	952.7	46.49	21.492	
10,260.0	8,963.6	10,236.1	8,966.9	25.7	24.3	88.86	-1,129.6	-1,796.1	999.3	952.4	46.88	21.315	
10,300.0	8,963.6	10,276.1	8,966.9	25.8	24.4	88.86	-1,169.6	-1,796.5	999.3	952.1	47.14	21.197	
10,355.0	8,963.7	10,331.1	8,967.0	26.0	24.5	88.86	-1,224.6	-1,796.9	999.3	951.8	47.52	21.029	
10,400.0	8,963.7	10,376.1	8,967.0	26.1	24.7	88.86	-1,269.6	-1,797.3	999.3	951.5	47.83	20.893	
10,450.0	8,963.7	10,426.1	8,967.0	26.3	24.8	88.86	-1,319.6	-1,797.8	999.4	951.2	48.19	20.737	
10,500.0	8,963.7	10,476.1	8,967.1	26.4	25.0	88.86	-1,369.6	-1,798.2	999.4	950.8	48.56	20.581	
10,545.0	8,963.8	10,521.1	8,967.1	26.6	25.1	88.86	-1,414.6	-1,798.6	999.4	950.5	48.90	20.438	
10,600.0	8,963.8	10,576.1	8,967.2	26.8	25.3	88.86	-1,469.6	-1,799.1	999.5	950.1	49.32	20.263	
10,640.0	8,963.8	10,616.1	8,967.2	26.9	25.4	88.86	-1,509.6	-1,799.5	999.5	949.8	49.64	20.134	
10,700.0	8,963.9	10,676.1	8,967.3	27.1	25.7	88.87	-1,569.6	-1,800.0	999.5	949.4	50.12	19.941	
10,735.0	8,963.9	10,711.1	8,967.3	27.3	25.8	88.87	-1,604.6	-1,800.3	999.5	949.1	50.41	19.827	
10,800.0	8,963.9	10,776.1	8,967.4	27.5	26.0	88.87	-1,669.6	-1,800.9	999.6	948.6	50.96	19.616	
10,830.0	8,964.0	10,806.1	8,967.4	27.6	26.1	88.87	-1,699.6	-1,801.2	999.6	948.4	51.21	19.518	
10,900.0	8,964.0	10,876.1	8,967.5	27.9	26.4	88.87	-1,769.6	-1,801.8	999.6	947.8	51.82	19.290	
10,925.0	8,964.0	10,901.1	8,967.5	28.0	26.5	88.87	-1,794.6	-1,802.0	999.6	947.6	52.04	19.208	
11,000.0	8,964.1	10,976.1	8,967.6	28.3	26.8	88.87	-1,869.6	-1,802.7	999.7	947.0	52.72	18.964	
11,020.0	8,964.1	10,996.1	8,967.6	28.4	26.9	88.87	-1,889.6	-1,802.8	999.7	946.8	52.90	18.899	
11,100.0	8,964.1	11,076.1	8,967.7	28.7	27.2	88.87	-1,969.6	-1,803.5	999.7	946.1	53.64	18.638	
11,115.0	8,964.2	11,091.1	8,967.7	28.8	27.3	88.87	-1,984.6	-1,803.7	999.8	946.0	53.78	18.590	
11,200.0	8,964.2	11,176.1	8,967.8	29.2	27.6	88.88	-2,069.6	-1,804.4	999.8	945.2	54.59	18.315	
11,210.0	8,964.2	11,186.1	8,967.8	29.2	27.7	88.88	-2,079.6	-1,804.5	999.8	945.1	54.69	18.283	
11,300.0	8,964.3	11,276.1	8,967.9	29.6	28.1	88.88	-2,169.6	-1,805.3	999.9	944.3	55.57	17.994	
11,305.0	8,964.3	11,281.1	8,967.9	29.6	28.1	88.88	-2,174.6	-1,805.4	999.9	944.2	55.62	17.978	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
11,400.0	8,964.3	11,376.1	8,968.0	30.1	28.5	88.88	-2,269.6	-1,806.2	999.9	943.4	56.57	17.677	
11,495.0	8,964.4	11,471.1	8,968.1	30.5	29.0	88.88	-2,364.6	-1,807.0	1,000.0	942.4	57.54	17.379	
11,500.0	8,964.4	11,476.1	8,968.1	30.6	29.0	88.88	-2,369.6	-1,807.1	1,000.0	942.4	57.59	17.364	
11,590.0	8,964.5	11,566.1	8,968.2	31.0	29.4	88.88	-2,459.6	-1,807.9	1,000.0	941.5	58.53	17.085	
11,600.0	8,964.5	11,576.1	8,968.2	31.0	29.5	88.88	-2,469.6	-1,808.0	1,000.0	941.4	58.64	17.055	
11,685.0	8,964.5	11,661.1	8,968.3	31.5	29.9	88.89	-2,554.6	-1,808.7	1,000.1	940.5	59.54	16.796	
11,700.0	8,964.6	11,676.1	8,968.3	31.5	30.0	88.89	-2,569.6	-1,808.9	1,000.1	940.4	59.70	16.751	
11,780.0	8,964.6	11,756.1	8,968.4	31.9	30.4	88.89	-2,649.6	-1,809.6	1,000.1	939.6	60.57	16.512	
11,800.0	8,964.6	11,776.1	8,968.4	32.0	30.5	88.89	-2,669.6	-1,809.7	1,000.1	939.4	60.79	16.453	
11,875.0	8,964.7	11,851.1	8,968.5	32.4	30.9	88.89	-2,744.6	-1,810.4	1,000.2	938.6	61.62	16.232	
11,900.0	8,964.7	11,876.1	8,968.5	32.6	31.0	88.89	-2,769.6	-1,810.6	1,000.2	938.3	61.89	16.160	
11,970.0	8,964.7	11,946.1	8,968.6	32.9	31.4	88.89	-2,839.6	-1,811.2	1,000.2	937.6	62.68	15.958	
12,000.0	8,964.8	11,976.1	8,968.6	33.1	31.5	88.89	-2,869.6	-1,811.5	1,000.3	937.2	63.02	15.873	
12,065.0	8,964.8	12,041.1	8,968.7	33.4	31.9	88.89	-2,934.6	-1,812.1	1,000.3	936.5	63.76	15.690	
12,100.0	8,964.8	12,076.1	8,968.7	33.6	32.1	88.89	-2,969.6	-1,812.4	1,000.3	936.2	64.16	15.592	
12,160.0	8,964.9	12,136.1	8,968.8	34.0	32.4	88.90	-3,029.6	-1,812.9	1,000.4	935.5	64.85	15.426	
12,200.0	8,964.9	12,176.1	8,968.8	34.2	32.6	88.90	-3,069.6	-1,813.3	1,000.4	935.1	65.31	15.317	
12,255.0	8,964.9	12,231.1	8,968.9	34.5	32.9	88.90	-3,124.6	-1,813.8	1,000.4	934.5	65.95	15.168	
12,300.0	8,965.0	12,276.1	8,969.0	34.7	33.2	88.90	-3,169.6	-1,814.2	1,000.4	934.0	66.48	15.048	
12,350.0	8,965.0	12,326.1	8,969.0	35.0	33.5	88.90	-3,219.6	-1,814.6	1,000.5	933.4	67.07	14.916	
12,400.0	8,965.0	12,376.1	8,969.0	35.3	33.8	88.90	-3,269.6	-1,815.1	1,000.5	932.8	67.67	14.786	
12,445.0	8,965.0	12,421.1	8,969.1	35.5	34.0	88.90	-3,314.6	-1,815.5	1,000.5	932.3	68.20	14.670	
12,500.0	8,965.1	12,476.1	8,969.1	35.9	34.3	88.90	-3,369.6	-1,815.9	1,000.6	931.7	68.86	14.530	
12,540.0	8,965.1	12,516.1	8,969.2	36.1	34.6	88.90	-3,409.5	-1,816.3	1,000.6	931.2	69.35	14.429	
12,600.0	8,965.2	12,576.1	8,969.2	36.4	34.9	88.90	-3,469.5	-1,816.8	1,000.6	930.5	70.07	14.279	
12,635.0	8,965.2	12,611.1	8,969.2	36.6	35.1	88.90	-3,504.5	-1,817.1	1,000.6	930.1	70.50	14.193	
12,700.0	8,965.2	12,676.1	8,969.3	37.0	35.5	88.91	-3,569.5	-1,817.7	1,000.7	929.4	71.30	14.035	
12,730.0	8,965.2	12,706.1	8,969.3	37.2	35.7	88.91	-3,599.5	-1,818.0	1,000.7	929.0	71.67	13.963	
12,800.0	8,965.3	12,776.1	8,969.4	37.6	36.1	88.91	-3,669.5	-1,818.6	1,000.7	928.2	72.53	13.797	
12,825.0	8,965.3	12,801.1	8,969.4	37.8	36.3	88.91	-3,694.5	-1,818.8	1,000.7	927.9	72.84	13.738	
12,900.0	8,965.4	12,876.1	8,969.5	38.2	36.7	88.91	-3,769.5	-1,819.5	1,000.8	927.0	73.78	13.565	
12,920.0	8,965.4	12,896.1	8,969.5	38.3	36.8	88.91	-3,789.5	-1,819.7	1,000.8	926.8	74.03	13.519	
13,000.0	8,965.4	12,976.1	8,969.6	38.8	37.3	88.91	-3,869.5	-1,820.4	1,000.8	925.8	75.03	13.339	
13,015.0	8,965.4	12,991.1	8,969.6	38.9	37.4	88.91	-3,884.5	-1,820.5	1,000.9	925.6	75.22	13.305	
13,100.0	8,965.5	13,076.1	8,969.7	39.4	37.9	88.91	-3,969.5	-1,821.3	1,000.9	924.6	76.30	13.118	
13,110.0	8,965.5	13,086.1	8,969.7	39.5	38.0	88.91	-3,979.5	-1,821.3	1,000.9	924.5	76.43	13.096	
13,200.0	8,965.6	13,176.1	8,969.8	40.0	38.6	88.92	-4,069.5	-1,822.1	1,001.0	923.4	77.58	12.903	
13,205.0	8,965.6	13,181.1	8,969.8	40.1	38.6	88.92	-4,074.5	-1,822.2	1,001.0	923.3	77.64	12.892	
13,300.0	8,965.6	13,276.1	8,969.9	40.7	39.2	88.92	-4,169.5	-1,823.0	1,001.0	922.2	78.86	12.694	
13,395.0	8,965.7	13,371.1	8,970.0	41.3	39.8	88.92	-4,264.5	-1,823.9	1,001.1	921.0	80.09	12.500	
13,400.0	8,965.7	13,376.1	8,970.0	41.3	39.8	88.92	-4,269.5	-1,823.9	1,001.1	920.9	80.15	12.490	
13,490.0	8,965.7	13,466.1	8,970.1	41.9	40.4	88.92	-4,359.5	-1,824.7	1,001.1	919.8	81.32	12.310	
13,500.0	8,965.8	13,476.1	8,970.1	41.9	40.5	88.92	-4,369.5	-1,824.8	1,001.1	919.7	81.45	12.291	
13,585.0	8,965.8	13,561.1	8,970.2	42.5	41.0	88.92	-4,454.5	-1,825.5	1,001.2	918.6	82.57	12.126	
13,600.0	8,965.8	13,576.1	8,970.2	42.5	41.1	88.92	-4,469.5	-1,825.7	1,001.2	918.4	82.76	12.097	
13,680.0	8,965.9	13,656.1	8,970.3	43.1	41.6	88.93	-4,549.5	-1,826.4	1,001.2	917.4	83.82	11.946	
13,700.0	8,965.9	13,676.1	8,970.3	43.2	41.8	88.93	-4,569.5	-1,826.6	1,001.3	917.2	84.08	11.909	
13,775.0	8,965.9	13,751.1	8,970.4	43.7	42.3	88.93	-4,644.5	-1,827.2	1,001.3	916.2	85.07	11.770	
13,800.0	8,966.0	13,776.1	8,970.4	43.8	42.4	88.93	-4,669.5	-1,827.5	1,001.3	915.9	85.40	11.725	
13,870.0	8,966.0	13,846.1	8,970.5	44.3	42.9	88.93	-4,739.5	-1,828.1	1,001.4	915.0	86.33	11.599	
13,900.0	8,966.0	13,876.1	8,970.5	44.5	43.1	88.93	-4,769.5	-1,828.3	1,001.4	914.6	86.73	11.546	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
13,965.0	8,966.1	13,941.1	8,970.6	44.9	43.5	88.93	-4,834.5	-1,828.9	1,001.4	913.8	87.60	11.432
14,000.0	8,966.1	13,976.1	8,970.6	45.1	43.7	88.93	-4,869.5	-1,829.2	1,001.4	913.4	88.07	11.371
14,060.0	8,966.1	14,036.1	8,970.7	45.5	44.1	88.93	-4,929.5	-1,829.8	1,001.5	912.6	88.87	11.268
14,100.0	8,966.2	14,076.1	8,970.7	45.8	44.4	88.93	-4,969.5	-1,830.1	1,001.5	912.1	89.41	11.201
14,155.0	8,966.2	14,131.1	8,970.8	46.1	44.8	88.94	-5,024.5	-1,830.6	1,001.5	911.4	90.15	11.109
14,200.0	8,966.2	14,176.1	8,970.8	46.4	45.1	88.94	-5,069.5	-1,831.0	1,001.5	910.8	90.76	11.035
14,250.0	8,966.3	14,226.1	8,970.9	46.8	45.4	88.94	-5,119.5	-1,831.4	1,001.6	910.1	91.44	10.954
14,300.0	8,966.3	14,276.1	8,970.9	47.1	45.7	88.94	-5,169.5	-1,831.9	1,001.6	909.5	92.11	10.874
14,345.0	8,966.3	14,321.1	8,971.0	47.4	46.0	88.94	-5,214.5	-1,832.3	1,001.6	908.9	92.72	10.802
14,400.0	8,966.4	14,376.1	8,971.0	47.8	46.4	88.94	-5,269.5	-1,832.8	1,001.7	908.2	93.47	10.716
14,440.0	8,966.4	14,416.1	8,971.1	48.0	46.7	88.94	-5,309.5	-1,833.1	1,001.7	907.7	94.02	10.654
14,500.0	8,966.4	14,476.1	8,971.1	48.4	47.1	88.94	-5,369.5	-1,833.7	1,001.7	906.9	94.84	10.562
14,535.0	8,966.4	14,511.1	8,971.2	48.7	47.3	88.94	-5,404.5	-1,834.0	1,001.7	906.4	95.32	10.510
14,600.0	8,966.5	14,576.1	8,971.2	49.1	47.8	88.94	-5,469.5	-1,834.5	1,001.8	905.6	96.21	10.413
14,630.0	8,966.5	14,606.1	8,971.3	49.3	48.0	88.94	-5,499.5	-1,834.8	1,001.8	905.2	96.62	10.369
14,700.0	8,966.6	14,676.1	8,971.3	49.8	48.4	88.95	-5,569.5	-1,835.4	1,001.8	904.3	97.58	10.267
14,725.0	8,966.6	14,701.1	8,971.4	50.0	48.6	88.95	-5,594.5	-1,835.6	1,001.8	903.9	97.93	10.231
14,800.0	8,966.6	14,776.1	8,971.4	50.5	49.1	88.95	-5,669.5	-1,836.3	1,001.9	902.9	98.96	10.124
14,820.0	8,966.6	14,796.1	8,971.5	50.6	49.3	88.95	-5,689.5	-1,836.5	1,001.9	902.7	99.24	10.096
14,900.0	8,966.7	14,876.1	8,971.5	51.1	49.8	88.95	-5,769.5	-1,837.2	1,001.9	901.6	100.34	9.985
14,915.0	8,966.7	14,891.1	8,971.5	51.2	49.9	88.95	-5,784.5	-1,837.3	1,002.0	901.4	100.55	9.965
15,000.0	8,966.8	14,976.1	8,971.6	51.8	50.5	88.95	-5,869.5	-1,838.1	1,002.0	900.3	101.73	9.850
15,010.0	8,966.8	14,986.1	8,971.6	51.9	50.6	88.95	-5,879.5	-1,838.2	1,002.0	900.1	101.87	9.836
15,100.0	8,966.8	15,076.1	8,971.7	52.5	51.2	88.95	-5,969.4	-1,839.0	1,002.1	898.9	103.12	9.717
15,105.0	8,966.8	15,081.1	8,971.7	52.5	51.2	88.95	-5,974.4	-1,839.0	1,002.1	898.9	103.19	9.711
15,200.0	8,966.9	15,176.1	8,971.8	53.2	51.9	88.96	-6,069.4	-1,839.9	1,002.1	897.6	104.52	9.588
15,295.0	8,967.0	15,271.1	8,971.9	53.8	52.6	88.96	-6,164.4	-1,840.7	1,002.2	896.3	105.84	9.468
15,300.0	8,967.0	15,276.1	8,971.9	53.9	52.6	88.96	-6,169.4	-1,840.7	1,002.2	896.3	105.91	9.462
15,390.0	8,967.0	15,366.1	8,972.0	54.5	53.2	88.96	-6,259.4	-1,841.5	1,002.2	895.1	107.18	9.351
15,400.0	8,967.0	15,376.1	8,972.0	54.6	53.3	88.96	-6,269.4	-1,841.6	1,002.2	894.9	107.32	9.339
15,485.0	8,967.1	15,461.1	8,972.1	55.2	53.9	88.96	-6,354.4	-1,842.4	1,002.3	893.8	108.51	9.237
15,500.0	8,967.1	15,476.1	8,972.1	55.3	54.0	88.96	-6,369.4	-1,842.5	1,002.3	893.6	108.72	9.219
15,580.0	8,967.1	15,556.1	8,972.2	55.8	54.6	88.96	-6,449.4	-1,843.2	1,002.3	892.5	109.85	9.125
15,600.0	8,967.2	15,576.1	8,972.2	56.0	54.7	88.96	-6,469.4	-1,843.4	1,002.4	892.2	110.13	9.101
15,675.0	8,967.2	15,651.1	8,972.3	56.5	55.2	88.97	-6,544.4	-1,844.1	1,002.4	891.2	111.19	9.015
15,700.0	8,967.2	15,676.1	8,972.3	56.7	55.4	88.97	-6,569.4	-1,844.3	1,002.4	890.9	111.54	8.987
15,770.0	8,967.3	15,746.1	8,972.4	57.1	55.9	88.97	-6,639.4	-1,844.9	1,002.5	889.9	112.53	8.908
15,800.0	8,967.3	15,776.1	8,972.4	57.3	56.1	88.97	-6,669.4	-1,845.2	1,002.5	889.5	112.96	8.875
15,865.0	8,967.3	15,841.1	8,972.5	57.8	56.6	88.97	-6,734.4	-1,845.7	1,002.5	888.6	113.88	8.803
15,900.0	8,967.4	15,876.1	8,972.5	58.0	56.8	88.97	-6,769.4	-1,846.1	1,002.5	888.2	114.38	8.765
15,960.0	8,967.4	15,936.1	8,972.6	58.5	57.2	88.97	-6,829.4	-1,846.6	1,002.6	887.3	115.23	8.701
16,000.0	8,967.4	15,976.1	8,972.6	58.7	57.5	88.97	-6,869.4	-1,846.9	1,002.6	886.8	115.80	8.658
16,055.0	8,967.5	16,031.1	8,972.7	59.1	57.9	88.97	-6,924.4	-1,847.4	1,002.6	886.0	116.58	8.600
16,100.0	8,967.5	16,076.1	8,972.7	59.5	58.2	88.97	-6,969.4	-1,847.8	1,002.6	885.4	117.22	8.554
16,150.0	8,967.5	16,126.1	8,972.8	59.8	58.6	88.97	-7,019.4	-1,848.3	1,002.7	884.7	117.93	8.502
16,200.0	8,967.6	16,176.1	8,972.8	60.2	58.9	88.98	-7,069.4	-1,848.7	1,002.7	884.1	118.65	8.451
16,245.0	8,967.6	16,221.1	8,972.9	60.5	59.3	88.98	-7,114.4	-1,849.1	1,002.7	883.4	119.29	8.406
16,300.0	8,967.6	16,276.1	8,972.9	60.9	59.6	88.98	-7,169.4	-1,849.6	1,002.8	882.7	120.07	8.351
16,340.0	8,967.7	16,316.1	8,973.0	61.1	59.9	88.98	-7,209.4	-1,849.9	1,002.8	882.1	120.65	8.312
16,400.0	8,967.7	16,376.1	8,973.0	61.6	60.4	88.98	-7,269.4	-1,850.5	1,002.8	881.3	121.51	8.253
16,435.0	8,967.7	16,411.1	8,973.1	61.8	60.6	88.98	-7,304.4	-1,850.8	1,002.8	880.8	122.01	8.220

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS										Rule Assigned:			Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside								Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
16,500.0	8,967.8	16,476.1	8,973.1	62.3	61.1	88.98	-7,369.4	-1,851.4	1,002.9	879.9	122.94	8.158		
16,530.0	8,967.8	16,506.1	8,973.2	62.5	61.3	88.98	-7,399.4	-1,851.6	1,002.9	879.5	123.37	8.129		
16,600.0	8,967.8	16,576.1	8,973.2	63.0	61.8	88.98	-7,469.4	-1,852.2	1,002.9	878.6	124.37	8.064		
16,625.0	8,967.8	16,601.1	8,973.3	63.2	62.0	88.98	-7,494.4	-1,852.5	1,003.0	878.2	124.73	8.041		
16,700.0	8,967.9	16,676.1	8,973.3	63.7	62.5	88.99	-7,569.4	-1,853.1	1,003.0	877.2	125.81	7.972		
16,720.0	8,967.9	16,696.1	8,973.4	63.8	62.7	88.99	-7,589.4	-1,853.3	1,003.0	876.9	126.10	7.954		
16,800.0	8,968.0	16,776.1	8,973.4	64.4	63.2	88.99	-7,669.4	-1,854.0	1,003.1	875.8	127.25	7.882		
16,815.0	8,968.0	16,791.1	8,973.5	64.5	63.3	88.99	-7,684.4	-1,854.2	1,003.1	875.6	127.47	7.869		
16,900.0	8,968.0	16,876.1	8,973.5	65.1	64.0	88.99	-7,769.4	-1,854.9	1,003.1	874.4	128.69	7.795		
16,910.0	8,968.0	16,886.1	8,973.6	65.2	64.0	88.99	-7,779.4	-1,855.0	1,003.1	874.3	128.84	7.786		
17,000.0	8,968.1	16,976.1	8,973.6	65.8	64.7	88.99	-7,869.4	-1,855.8	1,003.2	873.0	130.14	7.709		
17,005.0	8,968.1	16,981.1	8,973.7	65.9	64.7	88.99	-7,874.4	-1,855.8	1,003.2	873.0	130.21	7.704		
17,100.0	8,968.2	17,076.1	8,973.7	66.6	65.4	88.99	-7,969.4	-1,856.7	1,003.2	871.6	131.58	7.624		
17,195.0	8,968.2	17,171.1	8,973.8	67.2	66.1	89.00	-8,064.4	-1,857.5	1,003.3	870.3	132.96	7.546		
17,200.0	8,968.2	17,176.1	8,973.8	67.3	66.1	89.00	-8,069.4	-1,857.6	1,003.3	870.3	133.03	7.542		
17,290.0	8,968.3	17,266.1	8,973.9	67.9	66.8	89.00	-8,159.4	-1,858.4	1,003.3	869.0	134.33	7.469		
17,300.0	8,968.3	17,276.1	8,973.9	68.0	66.8	89.00	-8,169.4	-1,858.4	1,003.3	868.9	134.48	7.461		
17,385.0	8,968.4	17,361.1	8,974.0	68.6	67.5	89.00	-8,254.4	-1,859.2	1,003.4	867.7	135.71	7.393		
17,400.0	8,968.4	17,376.1	8,974.0	68.7	67.6	89.00	-8,269.4	-1,859.3	1,003.4	867.5	135.93	7.382		
17,480.0	8,968.4	17,456.1	8,974.1	69.3	68.1	89.00	-8,349.4	-1,860.0	1,003.4	866.4	137.09	7.319		
17,500.0	8,968.4	17,476.1	8,974.1	69.4	68.3	89.00	-8,369.4	-1,860.2	1,003.5	866.1	137.38	7.304		
17,575.0	8,968.5	17,551.1	8,974.2	70.0	68.8	89.00	-8,444.3	-1,860.9	1,003.5	865.0	138.47	7.247		
17,600.0	8,968.5	17,576.1	8,974.3	70.2	69.0	89.00	-8,469.3	-1,861.1	1,003.5	864.7	138.84	7.228		
17,670.0	8,968.5	17,646.1	8,974.3	70.7	69.5	89.01	-8,539.3	-1,861.7	1,003.6	863.7	139.86	7.176		
17,700.0	8,968.6	17,676.1	8,974.4	70.9	69.7	89.01	-8,569.3	-1,862.0	1,003.6	863.3	140.29	7.153		
17,765.0	8,968.6	17,741.1	8,974.4	71.3	70.2	89.01	-8,634.3	-1,862.6	1,003.6	862.4	141.24	7.106		
17,800.0	8,968.6	17,776.1	8,974.5	71.6	70.5	89.01	-8,669.3	-1,862.9	1,003.6	861.9	141.75	7.080		
17,860.0	8,968.7	17,836.1	8,974.5	72.0	70.9	89.01	-8,729.3	-1,863.4	1,003.7	861.0	142.63	7.037		
17,900.0	8,968.7	17,876.1	8,974.6	72.3	71.2	89.01	-8,769.3	-1,863.8	1,003.7	860.5	143.21	7.009		
17,955.0	8,968.7	17,931.1	8,974.6	72.7	71.6	89.01	-8,824.3	-1,864.2	1,003.7	859.7	144.01	6.970		
18,000.0	8,968.8	17,976.1	8,974.7	73.1	71.9	89.01	-8,869.3	-1,864.6	1,003.7	859.1	144.67	6.938		
18,050.0	8,968.8	18,026.1	8,974.7	73.4	72.3	89.01	-8,919.3	-1,865.1	1,003.8	858.4	145.40	6.904		
18,100.0	8,968.8	18,076.1	8,974.8	73.8	72.7	89.01	-8,969.3	-1,865.5	1,003.8	857.7	146.13	6.869		
18,145.0	8,968.9	18,121.1	8,974.8	74.1	73.0	89.01	-9,014.3	-1,865.9	1,003.8	857.0	146.79	6.839		
18,200.0	8,968.9	18,176.1	8,974.9	74.5	73.4	89.02	-9,069.3	-1,866.4	1,003.9	856.3	147.60	6.801		
18,240.0	8,968.9	18,216.1	8,974.9	74.8	73.7	89.02	-9,109.3	-1,866.8	1,003.9	855.7	148.18	6.775		
18,300.0	8,969.0	18,276.1	8,975.0	75.2	74.1	89.02	-9,169.3	-1,867.3	1,003.9	854.9	149.06	6.735		
18,335.0	8,969.0	18,311.1	8,975.0	75.5	74.4	89.02	-9,204.3	-1,867.6	1,003.9	854.4	149.57	6.712		
18,400.0	8,969.0	18,376.1	8,975.1	76.0	74.9	89.02	-9,269.3	-1,868.2	1,004.0	853.5	150.53	6.670		
18,430.0	8,969.1	18,406.1	8,975.1	76.2	75.1	89.02	-9,299.3	-1,868.5	1,004.0	853.0	150.97	6.651		
18,500.0	8,969.1	18,476.1	8,975.2	76.7	75.6	89.02	-9,369.3	-1,869.1	1,004.0	852.0	151.99	6.606		
18,525.0	8,969.1	18,501.1	8,975.2	76.9	75.8	89.02	-9,394.3	-1,869.3	1,004.1	851.7	152.36	6.590		
18,600.0	8,969.2	18,576.1	8,975.3	77.4	76.3	89.02	-9,469.3	-1,870.0	1,004.1	850.6	153.46	6.543		
18,620.0	8,969.2	18,596.1	8,975.3	77.6	76.5	89.02	-9,489.3	-1,870.1	1,004.1	850.4	153.75	6.531		
18,700.0	8,969.2	18,676.1	8,975.4	78.1	77.1	89.03	-9,569.3	-1,870.8	1,004.2	849.2	154.93	6.481		
18,715.0	8,969.2	18,691.1	8,975.4	78.3	77.2	89.03	-9,584.3	-1,871.0	1,004.2	849.0	155.15	6.472		
18,800.0	8,969.3	18,776.1	8,975.5	78.9	77.8	89.03	-9,669.3	-1,871.7	1,004.2	847.8	156.40	6.421		
18,810.0	8,969.3	18,786.1	8,975.5	79.0	77.9	89.03	-9,679.3	-1,871.8	1,004.2	847.7	156.55	6.415		
18,900.0	8,969.4	18,876.1	8,975.6	79.6	78.5	89.03	-9,769.3	-1,872.6	1,004.3	846.4	157.87	6.361		
18,905.0	8,969.4	18,881.1	8,975.6	79.6	78.6	89.03	-9,774.3	-1,872.7	1,004.3	846.3	157.94	6.358		
19,000.0	8,969.4	18,976.1	8,975.7	80.3	79.3	89.03	-9,869.3	-1,873.5	1,004.3	845.0	159.34	6.303		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
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
19,095.0	8,969.5	19,071.1	8,975.8	81.0	80.0	89.03	89.03	-9,964.3	-1,874.3	1,004.4	843.6	160.74	6.248
19,100.0	8,969.5	19,076.1	8,975.8	81.1	80.0	89.03	89.03	-9,969.3	-1,874.4	1,004.4	843.6	160.82	6.246
19,190.0	8,969.6	19,166.1	8,975.9	81.7	80.7	89.04	89.04	-10,059.3	-1,875.2	1,004.4	842.3	162.14	6.195
19,200.0	8,969.6	19,176.1	8,975.9	81.8	80.7	89.04	89.04	-10,069.3	-1,875.3	1,004.4	842.2	162.29	6.189
19,285.0	8,969.6	19,261.1	8,975.9	82.4	81.4	89.04	89.04	-10,154.3	-1,876.0	1,004.5	840.9	163.55	6.142
19,300.0	8,969.6	19,276.1	8,976.0	82.5	81.5	89.04	89.04	-10,169.3	-1,876.2	1,004.5	840.7	163.77	6.134
19,380.0	8,969.7	19,356.1	8,976.0	83.1	82.1	89.04	89.04	-10,249.3	-1,876.9	1,004.6	839.6	164.95	6.090
19,400.0	8,969.7	19,376.1	8,976.1	83.3	82.2	89.04	89.04	-10,269.3	-1,877.0	1,004.6	839.3	165.24	6.079
19,475.0	8,969.8	19,451.1	8,976.1	83.8	82.8	89.04	89.04	-10,344.3	-1,877.7	1,004.6	838.3	166.35	6.039
19,500.0	8,969.8	19,476.1	8,976.2	84.0	83.0	89.04	89.04	-10,369.3	-1,877.9	1,004.6	837.9	166.72	6.026
19,570.0	8,969.8	19,546.1	8,976.2	84.5	83.5	89.04	89.04	-10,439.3	-1,878.6	1,004.7	836.9	167.76	5.989
19,600.0	8,969.8	19,576.1	8,976.3	84.7	83.7	89.04	89.04	-10,469.3	-1,878.8	1,004.7	836.5	168.20	5.973
19,665.0	8,969.9	19,641.1	8,976.3	85.2	84.2	89.04	89.04	-10,534.3	-1,879.4	1,004.7	835.6	169.16	5.939
19,700.0	8,969.9	19,676.1	8,976.4	85.5	84.4	89.05	89.05	-10,569.3	-1,879.7	1,004.7	835.1	169.68	5.921
19,760.0	8,969.9	19,736.1	8,976.4	85.9	84.9	89.05	89.05	-10,629.3	-1,880.2	1,004.8	834.2	170.57	5.891
19,800.0	8,970.0	19,776.1	8,976.5	86.2	85.2	89.05	89.05	-10,669.3	-1,880.6	1,004.8	833.6	171.16	5.871
19,855.0	8,970.0	19,831.1	8,976.5	86.6	85.6	89.05	89.05	-10,724.3	-1,881.1	1,004.8	832.9	171.97	5.843
19,900.0	8,970.0	19,876.1	8,976.6	87.0	85.9	89.05	89.05	-10,769.3	-1,881.5	1,004.9	832.2	172.64	5.821
19,950.0	8,970.1	19,926.1	8,976.6	87.3	86.3	89.05	89.05	-10,819.3	-1,881.9	1,004.9	831.5	173.38	5.796
20,000.0	8,970.1	19,976.1	8,976.7	87.7	86.7	89.05	89.05	-10,869.3	-1,882.4	1,004.9	830.8	174.12	5.771
20,045.0	8,970.1	20,021.1	8,976.7	88.0	87.0	89.05	89.05	-10,914.2	-1,882.8	1,004.9	830.1	174.79	5.749
20,100.0	8,970.2	20,076.1	8,976.8	88.4	87.4	89.05	89.05	-10,969.2	-1,883.2	1,005.0	829.4	175.60	5.723
20,140.0	8,970.2	20,116.1	8,976.8	88.7	87.7	89.05	89.05	-11,009.2	-1,883.6	1,005.0	828.8	176.20	5.704
20,200.0	8,970.2	20,176.1	8,976.9	89.2	88.1	89.06	89.06	-11,069.2	-1,884.1	1,005.0	827.9	177.09	5.675
20,235.0	8,970.3	20,211.1	8,976.9	89.4	88.4	89.06	89.06	-11,104.2	-1,884.4	1,005.0	827.4	177.61	5.659
20,300.0	8,970.3	20,276.1	8,977.0	89.9	88.9	89.06	89.06	-11,169.2	-1,885.0	1,005.1	826.5	178.57	5.628
20,330.0	8,970.3	20,306.1	8,977.0	90.1	89.1	89.06	89.06	-11,199.2	-1,885.3	1,005.1	826.1	179.02	5.615
20,400.0	8,970.4	20,376.1	8,977.1	90.6	89.6	89.06	89.06	-11,269.2	-1,885.9	1,005.1	825.1	180.06	5.582
20,425.0	8,970.4	20,401.1	8,977.1	90.8	89.8	89.06	89.06	-11,294.2	-1,886.1	1,005.2	824.7	180.43	5.571
20,500.0	8,970.4	20,476.1	8,977.2	91.4	90.4	89.06	89.06	-11,369.2	-1,886.8	1,005.2	823.7	181.54	5.537
20,520.0	8,970.5	20,496.1	8,977.2	91.5	90.5	89.06	89.06	-11,389.2	-1,887.0	1,005.2	823.4	181.84	5.528
20,600.0	8,970.5	20,576.1	8,977.3	92.1	91.1	89.06	89.06	-11,469.2	-1,887.7	1,005.3	822.2	183.03	5.492
20,615.0	8,970.5	20,591.1	8,977.3	92.2	91.2	89.06	89.06	-11,484.2	-1,887.8	1,005.3	822.0	183.25	5.486
20,700.0	8,970.6	20,676.1	8,977.4	92.9	91.9	89.07	89.07	-11,569.2	-1,888.6	1,005.3	820.8	184.52	5.448
20,710.0	8,970.6	20,686.1	8,977.4	92.9	91.9	89.07	89.07	-11,579.2	-1,888.6	1,005.3	820.7	184.66	5.444
20,800.0	8,970.6	20,776.1	8,977.5	93.6	92.6	89.07	89.07	-11,669.2	-1,889.4	1,005.4	819.4	186.00	5.405
20,805.0	8,970.6	20,781.1	8,977.5	93.6	92.6	89.07	89.07	-11,674.2	-1,889.5	1,005.4	819.3	186.08	5.403
20,900.0	8,970.7	20,876.1	8,977.6	94.3	93.3	89.07	89.07	-11,769.2	-1,890.3	1,005.4	817.9	187.49	5.363
20,995.0	8,970.8	20,971.1	8,977.7	95.1	94.1	89.07	89.07	-11,864.2	-1,891.2	1,005.5	816.6	188.91	5.323
21,000.0	8,970.8	20,976.1	8,977.7	95.1	94.1	89.07	89.07	-11,869.2	-1,891.2	1,005.5	816.5	188.98	5.321
21,090.0	8,970.8	21,066.1	8,977.8	95.8	94.8	89.07	89.07	-11,959.2	-1,892.0	1,005.5	815.2	190.32	5.283
21,100.0	8,970.8	21,076.1	8,977.8	95.8	94.8	89.07	89.07	-11,969.2	-1,892.1	1,005.6	815.1	190.47	5.279
21,185.0	8,970.9	21,161.1	8,977.9	96.5	95.5	89.07	89.07	-12,054.2	-1,892.9	1,005.6	813.9	191.74	5.245
21,200.0	8,970.9	21,176.1	8,977.9	96.6	95.6	89.08	89.08	-12,069.2	-1,893.0	1,005.6	813.7	191.96	5.239
21,280.0	8,971.0	21,256.1	8,978.0	97.2	96.2	89.08	89.08	-12,149.2	-1,893.7	1,005.7	812.5	193.15	5.207
21,300.0	8,971.0	21,276.1	8,978.0	97.3	96.3	89.08	89.08	-12,169.2	-1,893.9	1,005.7	812.2	193.45	5.199
21,375.0	8,971.0	21,351.1	8,978.1	97.9	96.9	89.08	89.08	-12,244.2	-1,894.5	1,005.7	811.1	194.57	5.169
21,400.0	8,971.0	21,376.1	8,978.1	98.1	97.1	89.08	89.08	-12,269.2	-1,894.8	1,005.7	810.8	194.94	5.159
21,470.0	8,971.1	21,446.1	8,978.1	98.6	97.6	89.08	89.08	-12,339.2	-1,895.4	1,005.8	809.8	195.99	5.132
21,500.0	8,971.1	21,476.1	8,978.2	98.8	97.8	89.08	89.08	-12,369.2	-1,895.6	1,005.8	809.4	196.43	5.120
21,565.0	8,971.2	21,541.1	8,978.2	99.3	98.3	89.08	89.08	-12,434.2	-1,896.2	1,005.8	808.4	197.40	5.095

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
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
21,600.0	8,971.2	21,576.1	8,978.3	99.5	98.6	89.08	89.08	-12,469.2	-1,896.5	1,005.8	807.9	197.93	5.082
21,660.0	8,971.2	21,636.1	8,978.3	100.0	99.0	89.08	89.08	-12,529.2	-1,897.1	1,005.9	807.1	198.82	5.059
21,700.0	8,971.2	21,676.1	8,978.4	100.3	99.3	89.08	89.08	-12,569.2	-1,897.4	1,005.9	806.5	199.42	5.044
21,755.0	8,971.3	21,731.1	8,978.4	100.7	99.7	89.09	89.09	-12,624.2	-1,897.9	1,005.9	805.7	200.24	5.024
21,800.0	8,971.3	21,776.1	8,978.5	101.0	100.1	89.09	89.09	-12,669.2	-1,898.3	1,006.0	805.0	200.91	5.007
21,850.0	8,971.3	21,826.1	8,978.5	101.4	100.4	89.09	89.09	-12,719.2	-1,898.7	1,006.0	804.3	201.66	4.989
21,900.0	8,971.4	21,876.1	8,978.6	101.8	100.8	89.09	89.09	-12,769.2	-1,899.2	1,006.0	803.6	202.41	4.970
21,945.0	8,971.4	21,921.1	8,978.6	102.1	101.1	89.09	89.09	-12,814.2	-1,899.6	1,006.0	803.0	203.08	4.954
22,000.0	8,971.4	21,976.1	8,978.7	102.5	101.6	89.09	89.09	-12,869.2	-1,900.1	1,006.1	802.2	203.90	4.934
22,040.0	8,971.5	22,016.1	8,978.7	102.8	101.9	89.09	89.09	-12,909.2	-1,900.4	1,006.1	801.6	204.50	4.920
22,100.0	8,971.5	22,076.1	8,978.8	103.3	102.3	89.09	89.09	-12,969.2	-1,901.0	1,006.1	800.7	205.40	4.899
22,135.0	8,971.5	22,111.1	8,978.8	103.5	102.6	89.09	89.09	-13,004.2	-1,901.3	1,006.2	800.2	205.92	4.886
22,200.0	8,971.6	22,176.1	8,978.9	104.0	103.1	89.09	89.09	-13,069.2	-1,901.8	1,006.2	799.3	206.89	4.863
22,230.0	8,971.6	22,206.1	8,978.9	104.2	103.3	89.10	89.10	-13,099.2	-1,902.1	1,006.2	798.9	207.34	4.853
22,300.0	8,971.6	22,276.1	8,979.0	104.8	103.8	89.10	89.10	-13,169.2	-1,902.7	1,006.2	797.9	208.39	4.829
22,325.0	8,971.7	22,301.1	8,979.0	104.9	104.0	89.10	89.10	-13,194.2	-1,902.9	1,006.3	797.5	208.76	4.820
22,400.0	8,971.7	22,376.1	8,979.1	105.5	104.6	89.10	89.10	-13,269.2	-1,903.6	1,006.3	796.4	209.88	4.795
22,420.0	8,971.7	22,396.1	8,979.1	105.7	104.7	89.10	89.10	-13,289.2	-1,903.8	1,006.3	796.1	210.18	4.788
22,500.0	8,971.8	22,476.1	8,979.2	106.3	105.3	89.10	89.10	-13,369.2	-1,904.5	1,006.4	795.0	211.38	4.761
22,515.0	8,971.8	22,491.1	8,979.2	106.4	105.4	89.10	89.10	-13,384.2	-1,904.6	1,006.4	794.8	211.60	4.756
22,600.0	8,971.8	22,576.1	8,979.3	107.0	106.0	89.10	89.10	-13,469.1	-1,905.4	1,006.4	793.5	212.88	4.728
22,610.0	8,971.9	22,586.1	8,979.3	107.1	106.1	89.10	89.10	-13,479.1	-1,905.5	1,006.4	793.4	213.03	4.724
22,700.0	8,971.9	22,676.1	8,979.4	107.7	106.8	89.10	89.10	-13,569.1	-1,906.3	1,006.5	792.1	214.38	4.695
22,705.0	8,971.9	22,681.1	8,979.4	107.8	106.8	89.10	89.10	-13,574.1	-1,906.3	1,006.5	792.0	214.45	4.693
22,800.0	8,972.0	22,776.1	8,979.5	108.5	107.5	89.11	89.11	-13,669.1	-1,907.2	1,006.5	790.7	215.87	4.663
22,895.0	8,972.0	22,871.1	8,979.6	109.2	108.3	89.11	89.11	-13,764.1	-1,908.0	1,006.6	789.3	217.30	4.632
22,900.0	8,972.0	22,876.1	8,979.6	109.2	108.3	89.11	89.11	-13,769.1	-1,908.0	1,006.6	789.2	217.37	4.631
22,990.0	8,972.1	22,966.1	8,979.7	109.9	109.0	89.11	89.11	-13,859.1	-1,908.8	1,006.7	787.9	218.72	4.602
23,000.0	8,972.1	22,976.1	8,979.7	110.0	109.0	89.11	89.11	-13,869.1	-1,908.9	1,006.7	787.8	218.87	4.599
23,085.0	8,972.2	23,061.1	8,979.8	110.6	109.7	89.11	89.11	-13,954.1	-1,909.7	1,006.7	786.6	220.15	4.573
23,100.0	8,972.2	23,076.1	8,979.8	110.7	109.8	89.11	89.11	-13,969.1	-1,909.8	1,006.7	786.3	220.37	4.568
23,180.0	8,972.2	23,156.1	8,979.9	111.3	110.4	89.11	89.11	-14,049.1	-1,910.5	1,006.8	785.2	221.57	4.544
23,200.0	8,972.2	23,176.1	8,979.9	111.5	110.5	89.11	89.11	-14,069.1	-1,910.7	1,006.8	784.9	221.87	4.538
23,275.0	8,972.3	23,251.1	8,980.0	112.0	111.1	89.12	89.12	-14,144.1	-1,911.4	1,006.8	783.8	223.00	4.515
23,300.0	8,972.3	23,276.1	8,980.0	112.2	111.3	89.12	89.12	-14,169.1	-1,911.6	1,006.8	783.5	223.37	4.507
23,370.0	8,972.4	23,346.1	8,980.1	112.8	111.8	89.12	89.12	-14,239.1	-1,912.2	1,006.9	782.5	224.42	4.487
23,400.0	8,972.4	23,376.1	8,980.1	113.0	112.0	89.12	89.12	-14,269.1	-1,912.5	1,006.9	782.0	224.87	4.478
23,465.0	8,972.4	23,441.1	8,980.2	113.5	112.5	89.12	89.12	-14,334.1	-1,913.0	1,006.9	781.1	225.85	4.458
23,500.0	8,972.4	23,476.1	8,980.2	113.7	112.8	89.12	89.12	-14,369.1	-1,913.4	1,006.9	780.6	226.37	4.448
23,560.0	8,972.5	23,536.1	8,980.3	114.2	113.3	89.12	89.12	-14,429.1	-1,913.9	1,007.0	779.7	227.27	4.431
23,600.0	8,972.5	23,576.1	8,980.3	114.5	113.6	89.12	89.12	-14,469.1	-1,914.2	1,007.0	779.1	227.87	4.419
23,655.0	8,972.6	23,631.1	8,980.3	114.9	114.0	89.12	89.12	-14,524.1	-1,914.7	1,007.0	778.3	228.70	4.403
23,700.0	8,972.6	23,676.1	8,980.4	115.2	114.3	89.12	89.12	-14,569.1	-1,915.1	1,007.1	777.7	229.37	4.390
23,750.0	8,972.6	23,726.1	8,980.4	115.6	114.7	89.13	89.13	-14,619.1	-1,915.6	1,007.1	777.0	230.13	4.376
23,800.0	8,972.6	23,776.1	8,980.5	116.0	115.1	89.13	89.13	-14,669.1	-1,916.0	1,007.1	776.2	230.88	4.362
23,845.0	8,972.7	23,821.1	8,980.5	116.3	115.4	89.13	89.13	-14,714.1	-1,916.4	1,007.1	775.6	231.55	4.350
23,900.0	8,972.7	23,876.1	8,980.6	116.7	115.8	89.13	89.13	-14,769.1	-1,916.9	1,007.2	774.8	232.38	4.334
23,940.0	8,972.7	23,916.1	8,980.6	117.0	116.1	89.13	89.13	-14,809.1	-1,917.3	1,007.2	774.2	232.98	4.323
24,000.0	8,972.8	23,976.1	8,980.7	117.5	116.6	89.13	89.13	-14,869.1	-1,917.8	1,007.2	773.4	233.88	4.307
24,035.0	8,972.8	24,011.1	8,980.7	117.7	116.8	89.13	89.13	-14,904.1	-1,918.1	1,007.3	772.9	234.41	4.297
24,100.0	8,972.9	24,076.1	8,980.8	118.2	117.3	89.13	89.13	-14,969.1	-1,918.7	1,007.3	771.9	235.38	4.279

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis 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)			
24,130.0	8,972.9	24,106.1	8,980.8	118.4	117.5	89.13	-14,999.1	-1,918.9	1,007.3	771.5	235.84	4.271	
24,193.6	8,972.9	24,169.7	8,980.9	118.9	118.0	89.13	-15,062.7	-1,919.5	1,007.4	770.6	236.79	4.254	
24,200.0	8,972.9	24,176.1	8,980.9	119.0	118.1	89.13	-15,069.1	-1,919.6	1,007.4	770.5	236.89	4.252	
24,225.0	8,972.9	24,201.1	8,980.9	119.2	118.2	89.13	-15,094.1	-1,919.8	1,007.4	770.1	237.26	4.246	
24,300.0	8,973.0	24,276.1	8,981.0	119.7	118.8	89.14	-15,169.1	-1,920.4	1,007.4	769.0	238.39	4.226 ES	
24,320.0	8,973.0	24,278.2	8,981.0	119.9	118.8	89.14	-15,171.1	-1,920.5	1,007.6	769.1	238.52	4.224 SF	
24,323.6	8,973.0	24,278.2	8,981.0	119.9	118.8	89.14	-15,171.1	-1,920.5	1,007.7	769.1	238.53	4.224	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	10.39	150.6	27.6	153.2					
95.0	95.0	91.0	91.0	3.0	3.0	10.39	150.6	27.6	153.1	147.1	6.03	25.371		
100.0	100.0	96.0	96.0	3.0	3.0	10.39	150.6	27.6	153.1	147.1	6.04	25.350		
190.0	190.0	186.0	186.0	3.1	3.1	10.39	150.6	27.6	153.1	146.9	6.25	24.492		
200.0	200.0	196.0	196.0	3.1	3.1	10.39	150.6	27.6	153.1	146.8	6.29	24.357		
285.0	285.0	281.0	281.0	3.3	3.2	10.39	150.6	27.6	153.1	146.6	6.50	23.572		
300.0	300.0	296.0	296.0	3.3	3.3	10.39	150.6	27.6	153.1	146.6	6.54	23.422		
380.0	380.0	376.0	376.0	3.4	3.4	10.39	150.6	27.6	153.1	146.4	6.73	22.742		
400.0	400.0	396.0	396.0	3.4	3.4	10.39	150.6	27.6	153.1	146.3	6.78	22.566		
475.0	475.0	471.0	471.0	3.5	3.5	10.39	150.6	27.6	153.1	146.1	6.97	21.977		
500.0	500.0	496.0	496.0	3.5	3.5	10.39	150.6	27.6	153.1	146.1	7.03	21.777		
570.0	570.0	566.0	566.0	3.6	3.6	10.39	150.6	27.6	153.1	145.9	7.20	21.266		
600.0	600.0	596.0	596.0	3.6	3.6	10.39	150.6	27.6	153.1	145.8	7.27	21.046		
665.0	665.0	661.0	661.0	3.7	3.7	10.39	150.6	27.6	153.1	145.7	7.43	20.604		
700.0	700.0	696.0	696.0	3.8	3.8	10.39	150.6	27.6	153.1	145.6	7.52	20.367		
760.0	760.0	756.0	756.0	3.8	3.8	10.39	150.6	27.6	153.1	145.4	7.66	19.986		
800.0	800.0	796.0	796.0	3.9	3.9	10.39	150.6	27.6	153.1	145.3	7.76	19.734		
855.0	855.0	851.0	851.0	4.0	3.9	10.39	150.6	27.6	153.1	145.2	7.89	19.406		
900.0	900.0	896.0	896.0	4.0	4.0	10.39	150.6	27.6	153.1	145.1	8.00	19.142		
950.0	950.0	946.0	946.0	4.1	4.1	10.39	150.6	27.6	153.1	145.0	8.12	18.862		
1,000.0	1,000.0	996.0	996.0	4.1	4.1	10.39	150.6	27.6	153.1	144.9	8.24	18.586		
1,045.0	1,045.0	1,041.0	1,041.0	4.2	4.2	10.39	150.6	27.6	153.1	144.8	8.34	18.350		
1,100.0	1,100.0	1,096.0	1,096.0	4.2	4.2	10.39	150.6	27.6	153.1	144.6	8.48	18.065		
1,140.0	1,140.0	1,136.0	1,136.0	4.3	4.3	10.39	150.6	27.6	153.1	144.5	8.57	17.866		
1,200.0	1,200.0	1,196.0	1,196.0	4.4	4.4	10.39	150.6	27.6	153.1	144.4	8.71	17.573		
1,235.0	1,235.0	1,231.0	1,231.0	4.4	4.4	10.39	150.6	27.6	153.1	144.3	8.79	17.409		
1,300.0	1,300.0	1,296.0	1,296.0	4.5	4.5	10.39	150.6	27.6	153.1	144.2	8.95	17.110		
1,330.0	1,330.0	1,326.0	1,326.0	4.5	4.5	10.39	150.6	27.6	153.1	144.1	9.02	16.977		
1,400.0	1,400.0	1,396.0	1,396.0	4.6	4.6	10.39	150.6	27.6	153.1	143.9	9.18	16.672		
1,425.0	1,425.0	1,421.0	1,421.0	4.6	4.6	10.39	150.6	27.6	153.1	143.9	9.24	16.566		
1,500.0	1,500.0	1,496.0	1,496.0	4.7	4.7	10.39	150.6	27.6	153.1	143.7	9.42	16.256 CC		
1,520.0	1,520.0	1,515.4	1,515.4	4.7	4.7	78.80	150.6	27.6	153.1	143.7	9.47	16.176 ES		
1,600.0	1,600.0	1,592.2	1,592.2	4.8	4.9	79.71	151.5	28.7	154.0	144.3	9.66	15.936		
1,615.0	1,615.0	1,606.5	1,606.5	4.9	4.9	80.02	151.9	29.1	154.3	144.6	9.71	15.886		
1,700.0	1,699.8	1,687.7	1,687.6	5.0	5.1	82.53	154.5	32.4	157.0	147.0	10.01	15.688		
1,710.0	1,709.8	1,697.2	1,697.0	5.1	5.1	82.91	154.9	32.9	157.5	147.4	10.04	15.678 SF		
1,800.0	1,799.5	1,782.3	1,781.8	5.3	5.3	86.91	159.4	38.4	163.0	152.7	10.36	15.733		
1,805.0	1,804.4	1,786.9	1,786.5	5.3	5.3	87.16	159.7	38.7	163.4	153.1	10.38	15.744		
1,900.0	1,898.7	1,875.4	1,874.3	5.6	5.6	92.36	166.1	46.6	173.1	162.4	10.73	16.131		
1,995.0	1,992.5	1,962.1	1,960.1	5.9	5.8	97.98	174.1	56.4	187.4	176.3	11.11	16.870		
2,000.0	1,997.5	1,966.6	1,964.6	5.9	5.9	98.28	174.6	57.0	188.3	177.2	11.13	16.919		
2,090.0	2,085.8	2,046.9	2,043.6	6.2	6.1	103.53	183.5	67.9	207.1	195.5	11.52	17.970		
2,100.0	2,095.6	2,055.7	2,052.2	6.2	6.2	104.09	184.6	69.2	209.5	197.9	11.57	18.107		
2,185.0	2,178.5	2,129.3	2,124.2	6.6	6.4	108.63	194.1	80.9	232.4	220.4	11.97	19.410		
2,200.1	2,193.2	2,142.2	2,136.8	6.6	6.5	109.39	195.9	83.1	237.0	224.9	12.05	19.670		
2,280.0	2,270.7	2,210.3	2,203.1	6.9	6.7	113.48	206.0	95.5	263.0	250.6	12.44	21.136		
2,300.0	2,290.1	2,228.6	2,220.8	6.9	6.8	114.45	208.8	98.9	269.9	257.4	12.55	21.507		
2,375.0	2,362.9	2,297.1	2,287.2	7.2	7.0	117.72	219.2	111.7	296.3	283.4	12.95	22.874		
2,400.0	2,387.1	2,319.9	2,309.4	7.2	7.0	118.69	222.7	116.0	305.3	292.2	13.09	23.317		
2,470.0	2,455.0	2,383.8	2,371.4	7.5	7.2	121.13	232.5	128.0	330.8	317.3	13.49	24.519		
2,500.0	2,484.1	2,411.2	2,398.0	7.6	7.3	122.07	236.7	133.1	341.9	328.2	13.67	25.018		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
2,565.0	2,547.2	2,470.5	2,455.5	7.8	7.5	123.91	245.8	144.3	366.2	352.1	14.05	26.056	
2,600.0	2,581.2	2,502.5	2,486.5	8.0	7.7	124.80	250.6	150.2	379.3	365.1	14.26	26.597	
2,660.0	2,639.4	2,557.2	2,539.7	8.2	7.9	126.21	259.0	160.5	402.1	387.5	14.63	27.480	
2,700.0	2,678.2	2,593.8	2,575.1	8.3	8.0	127.06	264.6	167.4	417.4	402.5	14.88	28.049	
2,755.0	2,731.6	2,644.0	2,623.8	8.5	8.2	128.13	272.3	176.8	438.6	423.4	15.23	28.792	
2,800.0	2,775.2	2,685.0	2,663.7	8.7	8.3	128.94	278.6	184.5	456.0	440.5	15.52	29.379	
2,850.0	2,823.7	2,730.7	2,708.0	8.9	8.5	129.77	285.5	193.0	475.4	459.6	15.85	29.999	
2,900.0	2,872.3	2,776.3	2,752.3	9.1	8.7	130.54	292.5	201.6	494.9	478.7	16.18	30.595	
2,945.0	2,915.9	2,817.4	2,792.1	9.3	8.8	131.18	298.8	209.3	512.5	496.0	16.48	31.106	
3,000.0	2,969.3	2,867.6	2,840.9	9.5	9.0	131.90	306.5	218.7	534.1	517.3	16.85	31.705	
3,040.0	3,008.1	2,904.1	2,876.3	9.7	9.2	132.39	312.1	225.5	549.9	532.7	17.12	32.122	
3,100.0	3,066.3	2,958.9	2,929.4	9.9	9.4	133.08	320.5	235.8	573.5	556.0	17.53	32.720	
3,135.0	3,100.3	2,990.9	2,960.4	10.1	9.5	133.46	325.3	241.8	587.4	569.6	17.77	33.054	
3,200.0	3,163.3	3,050.2	3,018.0	10.4	9.8	134.11	334.4	252.9	613.1	594.9	18.22	33.647	
3,230.0	3,192.4	3,077.6	3,044.6	10.5	9.9	134.39	338.6	258.1	625.1	606.6	18.43	33.909	
3,300.0	3,260.4	3,141.5	3,106.6	10.8	10.1	135.02	348.4	270.0	652.9	634.0	18.93	34.495	
3,325.0	3,284.6	3,164.3	3,128.7	10.9	10.2	135.23	351.9	274.3	662.9	643.8	19.11	34.695	
3,400.0	3,357.4	3,232.8	3,195.2	11.2	10.5	135.82	362.3	287.2	692.8	673.1	19.64	35.272	
3,420.0	3,376.8	3,251.1	3,212.9	11.3	10.6	135.97	365.1	290.6	700.8	681.0	19.79	35.419	
3,500.0	3,454.4	3,324.1	3,283.8	11.6	10.9	136.53	376.3	304.3	732.8	712.4	20.36	35.985	
3,515.0	3,469.0	3,337.8	3,297.0	11.7	11.0	136.63	378.4	306.8	738.8	718.3	20.47	36.086	
3,600.0	3,551.5	3,415.4	3,372.3	12.1	11.3	137.18	390.3	321.4	772.8	751.7	21.09	36.640	
3,610.0	3,561.2	3,424.5	3,381.2	12.1	11.4	137.24	391.7	323.1	776.8	755.7	21.17	36.702	
3,700.0	3,648.5	3,506.7	3,460.9	12.5	11.7	137.76	404.2	338.5	813.0	791.1	21.83	37.244	
3,705.0	3,653.3	3,511.2	3,465.3	12.6	11.7	137.78	404.9	339.4	815.0	793.1	21.87	37.272	
3,800.0	3,745.5	3,598.0	3,549.5	13.0	12.1	138.28	418.2	355.6	853.2	830.6	22.57	37.800	
3,895.0	3,837.7	3,684.7	3,633.7	13.4	12.5	138.74	431.4	371.9	891.4	868.1	23.28	38.290	
3,900.0	3,842.5	3,689.3	3,638.1	13.4	12.5	138.76	432.1	372.7	893.4	870.1	23.32	38.315	
3,990.0	3,929.9	3,771.4	3,717.8	13.8	12.9	139.15	444.7	388.1	929.7	905.7	24.00	38.745	
4,000.0	3,939.6	3,780.6	3,726.7	13.9	12.9	139.20	446.1	389.8	933.8	909.7	24.07	38.791	
4,085.0	4,022.0	3,858.2	3,802.0	14.3	13.3	139.54	458.0	404.4	968.0	943.3	24.71	39.169	
4,100.0	4,036.6	3,871.9	3,815.2	14.3	13.3	139.60	460.1	407.0	974.1	949.3	24.83	39.233	
4,180.0	4,114.2	3,944.9	3,886.1	14.7	13.7	139.89	471.2	420.6	1,006.4	981.0	25.44	39.564	
4,200.0	4,133.6	3,963.1	3,903.8	14.8	13.7	139.96	474.0	424.1	1,014.5	988.9	25.59	39.644	
4,275.0	4,206.4	4,031.6	3,970.3	15.1	14.1	140.22	484.5	436.9	1,044.8	1,018.6	26.16	39.934	
4,300.0	4,230.7	4,054.4	3,992.4	15.3	14.2	140.31	488.0	441.2	1,054.9	1,028.6	26.36	40.027	
4,370.0	4,298.6	4,118.3	4,054.4	15.6	14.4	140.53	497.8	453.2	1,083.2	1,056.3	26.89	40.279	
4,400.0	4,327.7	4,145.7	4,081.0	15.7	14.6	140.62	501.9	458.3	1,095.4	1,068.2	27.12	40.384	
4,465.0	4,390.7	4,205.1	4,138.6	16.0	14.8	140.81	511.0	469.4	1,121.7	1,094.0	27.63	40.603	
4,500.0	4,424.7	4,237.0	4,169.6	16.2	15.0	140.92	515.9	475.4	1,135.8	1,107.9	27.90	40.717	
4,560.0	4,482.9	4,291.8	4,222.7	16.5	15.2	141.08	524.3	485.7	1,160.1	1,131.8	28.36	40.907	
4,600.0	4,521.7	4,328.3	4,258.1	16.6	15.4	141.19	529.9	492.5	1,176.3	1,147.7	28.67	41.030	
4,634.9	4,555.6	4,360.2	4,289.1	16.8	15.6	141.28	534.7	498.5	1,190.5	1,161.6	28.93	41.149	
4,655.0	4,575.1	4,378.5	4,306.9	16.9	15.6	141.39	537.6	501.9	1,198.6	1,169.5	29.08	41.213	
4,700.0	4,618.9	4,419.7	4,346.8	17.1	15.8	141.61	543.9	509.7	1,216.6	1,187.2	29.42	41.347	
4,750.0	4,667.6	4,465.6	4,391.4	17.3	16.0	141.84	550.9	518.3	1,236.3	1,206.5	29.81	41.471	
4,800.0	4,716.3	4,511.7	4,436.1	17.6	16.3	142.05	557.9	526.9	1,255.7	1,225.5	30.20	41.586	
4,845.0	4,760.3	4,564.1	4,487.0	17.8	16.5	142.24	565.9	536.6	1,272.8	1,242.2	30.62	41.564	
4,900.0	4,814.2	4,650.8	4,571.5	18.0	16.9	142.50	577.8	551.3	1,292.3	1,261.0	31.34	41.233	
4,940.0	4,853.5	4,715.0	4,634.6	18.2	17.2	142.70	585.6	560.9	1,305.3	1,273.5	31.86	40.967	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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	-0.92	150.0	-2.4	150.1					
95.0	95.0	90.4	90.4	3.0	3.0	-0.92	150.0	-2.4	150.0	144.0	6.03	24.860		
100.0	100.0	95.4	95.4	3.0	3.0	-0.92	150.0	-2.4	150.0	144.0	6.04	24.840		
190.0	190.0	185.4	185.4	3.1	3.1	-0.92	150.0	-2.4	150.0	143.8	6.25	24.000		
200.0	200.0	195.4	195.4	3.1	3.1	-0.92	150.0	-2.4	150.0	143.7	6.29	23.869		
285.0	285.0	280.4	280.4	3.3	3.2	-0.92	150.0	-2.4	150.0	143.5	6.50	23.097		
300.0	300.0	295.4	295.4	3.3	3.3	-0.92	150.0	-2.4	150.0	143.5	6.54	22.950		
380.0	380.0	375.4	375.4	3.4	3.4	-0.92	150.0	-2.4	150.0	143.3	6.73	22.282		
400.0	400.0	395.4	395.4	3.4	3.4	-0.92	150.0	-2.4	150.0	143.2	6.79	22.109		
475.0	475.0	470.4	470.4	3.5	3.5	-0.92	150.0	-2.4	150.0	143.1	6.97	21.530		
500.0	500.0	495.4	495.4	3.5	3.5	-0.92	150.0	-2.4	150.0	143.0	7.03	21.334		
570.0	570.0	565.4	565.4	3.6	3.6	-0.92	150.0	-2.4	150.0	142.8	7.20	20.831		
600.0	600.0	595.4	595.4	3.6	3.6	-0.92	150.0	-2.4	150.0	142.7	7.28	20.615		
665.0	665.0	660.4	660.4	3.7	3.7	-0.92	150.0	-2.4	150.0	142.6	7.43	20.180		
700.0	700.0	695.4	695.4	3.8	3.8	-0.92	150.0	-2.4	150.0	142.5	7.52	19.947		
760.0	760.0	755.4	755.4	3.8	3.8	-0.92	150.0	-2.4	150.0	142.4	7.67	19.572		
800.0	800.0	795.4	795.4	3.9	3.9	-0.92	150.0	-2.4	150.0	142.3	7.76	19.324		
855.0	855.0	850.4	850.4	4.0	3.9	-0.92	150.0	-2.4	150.0	142.1	7.90	19.001		
900.0	900.0	895.4	895.4	4.0	4.0	-0.92	150.0	-2.4	150.0	142.0	8.00	18.741		
950.0	950.0	945.4	945.4	4.1	4.1	-0.92	150.0	-2.4	150.0	141.9	8.12	18.466		
1,000.0	1,000.0	995.4	995.4	4.1	4.1	-0.92	150.0	-2.4	150.0	141.8	8.25	18.194		
1,045.0	1,045.0	1,040.4	1,040.4	4.2	4.2	-0.92	150.0	-2.4	150.0	141.7	8.35	17.961		
1,100.0	1,100.0	1,095.4	1,095.4	4.2	4.2	-0.92	150.0	-2.4	150.0	141.5	8.48	17.681		
1,140.0	1,140.0	1,135.4	1,135.4	4.3	4.3	-0.92	150.0	-2.4	150.0	141.4	8.58	17.485		
1,200.0	1,200.0	1,195.4	1,195.4	4.4	4.4	-0.92	150.0	-2.4	150.0	141.3	8.72	17.197		
1,235.0	1,235.0	1,230.4	1,230.4	4.4	4.4	-0.92	150.0	-2.4	150.0	141.2	8.81	17.035		
1,300.0	1,300.0	1,295.4	1,295.4	4.5	4.5	-0.92	150.0	-2.4	150.0	141.1	8.96	16.740		
1,330.0	1,330.0	1,325.4	1,325.4	4.5	4.5	-0.92	150.0	-2.4	150.0	141.0	9.03	16.609		
1,400.0	1,400.0	1,395.4	1,395.4	4.6	4.6	-0.92	150.0	-2.4	150.0	140.8	9.20	16.309		
1,425.0	1,425.0	1,420.4	1,420.4	4.6	4.6	-0.92	150.0	-2.4	150.0	140.8	9.26	16.205		
1,500.0	1,500.0	1,495.4	1,495.4	4.7	4.7	-0.92	150.0	-2.4	150.0	140.6	9.44	15.900		
1,508.2	1,508.2	1,503.4	1,503.4	4.7	4.7	67.46	150.0	-2.4	150.0	140.6	9.46	15.865 CC		
1,520.0	1,520.0	1,514.7	1,514.7	4.7	4.7	67.48	150.0	-2.4	150.0	140.5	9.49	15.810 ES		
1,600.0	1,600.0	1,591.0	1,591.0	4.8	4.9	67.81	151.3	-3.0	150.7	141.0	9.72	15.514		
1,615.0	1,615.0	1,605.3	1,605.3	4.9	4.9	67.92	151.8	-3.2	151.0	141.2	9.77	15.456		
1,700.0	1,699.8	1,686.3	1,686.2	5.0	5.1	68.80	155.5	-4.9	153.2	143.1	10.10	15.174		
1,710.0	1,709.8	1,695.9	1,695.7	5.1	5.2	68.93	156.1	-5.2	153.6	143.4	10.14	15.151		
1,800.0	1,799.5	1,781.5	1,781.0	5.3	5.4	70.34	162.6	-8.1	157.5	147.1	10.48	15.036		
1,805.0	1,804.4	1,786.3	1,785.8	5.3	5.4	70.43	163.0	-8.3	157.8	147.3	10.50	15.035		
1,900.0	1,898.7	1,876.4	1,875.3	5.6	5.7	72.34	172.5	-12.6	163.8	153.0	10.85	15.103		
1,995.0	1,992.5	1,966.2	1,964.2	5.9	5.9	74.54	184.5	-18.1	171.8	160.6	11.19	15.349		
2,000.0	1,997.5	1,971.0	1,968.8	5.9	6.0	74.67	185.2	-18.4	172.2	161.0	11.21	15.367		
2,090.0	2,085.8	2,056.0	2,052.5	6.2	6.2	76.93	199.0	-24.7	181.7	170.3	11.46	15.860		
2,100.0	2,095.6	2,065.9	2,062.2	6.2	6.2	77.21	200.7	-25.4	182.9	171.4	11.49	15.922		
2,185.0	2,178.5	2,149.8	2,144.6	6.6	6.4	79.83	215.3	-32.1	192.5	180.8	11.75	16.384		
2,200.1	2,193.2	2,164.8	2,159.3	6.6	6.4	80.34	217.8	-33.3	194.3	182.5	11.80	16.461		
2,280.0	2,270.7	2,243.5	2,236.6	6.9	6.7	83.13	231.5	-39.5	203.6	191.5	12.07	16.869		
2,300.0	2,290.1	2,263.2	2,255.9	6.9	6.7	83.79	234.9	-41.0	206.0	193.9	12.14	16.973		
2,375.0	2,362.9	2,337.1	2,328.5	7.2	7.0	86.13	247.8	-46.9	215.3	202.9	12.40	17.364		
2,400.0	2,387.1	2,361.8	2,352.7	7.2	7.0	86.86	252.1	-48.8	218.4	205.9	12.49	17.495		
2,470.0	2,455.0	2,430.8	2,420.4	7.5	7.3	88.82	264.0	-54.3	227.5	214.7	12.74	17.861		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		
2,500.0	2,484.1	2,460.3	2,449.4	7.6	7.4	89.60	269.2	-56.6	231.4	218.6	12.84	18.018			
2,565.0	2,547.2	2,524.4	2,512.3	7.8	7.6	91.23	280.3	-61.7	240.1	227.0	13.08	18.354			
2,600.0	2,581.2	2,558.9	2,546.2	8.0	7.7	92.05	286.3	-64.4	244.9	231.7	13.21	18.533			
2,660.0	2,639.4	2,618.1	2,604.3	8.2	7.9	93.40	296.6	-69.1	253.1	239.7	13.44	18.836			
2,700.0	2,678.2	2,657.5	2,643.0	8.3	8.1	94.24	303.4	-72.2	258.7	245.1	13.59	19.036			
2,755.0	2,731.6	2,711.7	2,696.2	8.5	8.3	95.35	312.8	-76.5	266.5	252.7	13.80	19.305			
2,800.0	2,775.2	2,756.1	2,739.7	8.7	8.4	96.21	320.5	-80.0	272.9	258.9	13.98	19.522			
2,850.0	2,823.7	2,805.3	2,788.1	8.9	8.6	97.12	329.1	-83.9	280.1	266.0	14.18	19.757			
2,900.0	2,872.3	2,854.6	2,836.5	9.1	8.8	97.98	337.7	-87.7	287.4	273.0	14.38	19.988			
2,945.0	2,915.9	2,899.0	2,880.0	9.3	9.0	98.73	345.4	-91.3	294.0	279.4	14.56	20.190			
3,000.0	2,969.3	2,953.2	2,933.2	9.5	9.2	99.59	354.8	-95.5	302.1	287.3	14.79	20.432			
3,040.0	3,008.1	2,992.6	2,971.9	9.7	9.3	100.19	361.6	-98.6	308.1	293.1	14.95	20.604			
3,100.0	3,066.3	3,051.8	3,030.0	9.9	9.6	101.04	371.9	-103.3	317.1	301.9	15.20	20.855			
3,135.0	3,100.3	3,086.3	3,063.9	10.1	9.7	101.52	377.9	-106.0	322.3	307.0	15.35	20.998			
3,200.0	3,163.3	3,150.3	3,126.8	10.4	9.9	102.36	389.0	-111.1	332.2	316.5	15.63	21.256			
3,230.0	3,192.4	3,179.9	3,155.8	10.5	10.1	102.74	394.2	-113.4	336.7	321.0	15.76	21.372			
3,300.0	3,260.4	3,248.9	3,223.5	10.8	10.3	103.57	406.1	-118.9	347.4	331.4	16.06	21.636			
3,325.0	3,284.6	3,273.6	3,247.7	10.9	10.4	103.86	410.4	-120.8	351.3	335.1	16.17	21.727			
3,400.0	3,357.4	3,347.5	3,320.3	11.2	10.8	104.68	423.3	-126.7	362.9	346.4	16.50	21.994			
3,420.0	3,376.8	3,367.2	3,339.6	11.3	10.8	104.89	426.7	-128.2	366.0	349.4	16.59	22.063			
3,500.0	3,454.4	3,446.1	3,417.0	11.6	11.2	105.69	440.4	-134.5	378.4	361.5	16.94	22.332			
3,515.0	3,469.0	3,460.8	3,431.6	11.7	11.2	105.84	442.9	-135.6	380.7	363.7	17.01	22.381			
3,600.0	3,551.5	3,544.6	3,513.8	12.1	11.6	106.63	457.5	-142.3	394.0	376.6	17.40	22.650			
3,610.0	3,561.2	3,554.5	3,523.5	12.1	11.6	106.72	459.2	-143.0	395.6	378.2	17.44	22.681			
3,700.0	3,648.5	3,643.2	3,610.6	12.5	12.0	107.49	474.6	-150.0	409.8	391.9	17.85	22.951			
3,705.0	3,653.3	3,648.1	3,615.4	12.6	12.0	107.54	475.5	-150.4	410.6	392.7	17.88	22.965			
3,800.0	3,745.5	3,741.8	3,707.3	13.0	12.4	108.30	491.7	-157.8	425.6	407.3	18.32	23.234			
3,895.0	3,837.7	3,835.4	3,799.2	13.4	12.8	109.00	508.0	-165.2	440.7	421.9	18.76	23.488			
3,900.0	3,842.5	3,840.3	3,804.1	13.4	12.8	109.04	508.9	-165.6	441.5	422.7	18.79	23.501			
3,990.0	3,929.9	3,929.1	3,891.2	13.8	13.2	109.66	524.3	-172.6	455.9	436.7	19.21	23.728			
4,000.0	3,939.6	3,938.9	3,900.8	13.9	13.2	109.73	526.0	-173.4	457.5	438.2	19.26	23.753			
4,085.0	4,022.0	4,022.7	3,983.1	14.3	13.6	110.28	540.5	-180.0	471.1	451.4	19.66	23.956			
4,100.0	4,036.6	4,037.5	3,997.6	14.3	13.7	110.38	543.1	-181.2	473.5	453.8	19.74	23.991			
4,180.0	4,114.2	4,117.6	4,076.3	14.7	14.0	110.88	556.9	-187.5	486.3	466.2	20.12	24.168			
4,200.0	4,133.6	4,138.7	4,097.0	14.8	14.1	111.03	560.4	-189.1	489.5	469.2	20.23	24.200			
4,275.0	4,206.4	4,217.6	4,174.8	15.1	14.5	111.72	572.1	-194.4	500.8	480.2	20.61	24.304			
4,300.0	4,230.7	4,243.9	4,200.8	15.3	14.6	111.99	575.6	-196.0	504.4	483.7	20.73	24.334			
4,370.0	4,298.6	4,317.4	4,273.7	15.6	14.9	112.88	584.1	-199.8	514.3	493.2	21.07	24.405			
4,400.0	4,327.7	4,348.8	4,305.0	15.7	15.0	113.30	587.3	-201.3	518.3	497.1	21.21	24.432			
4,465.0	4,390.7	4,416.7	4,372.6	16.0	15.3	114.32	593.0	-203.9	526.8	505.3	21.52	24.477			
4,500.0	4,424.7	4,453.1	4,408.9	16.2	15.5	114.92	595.4	-205.0	531.3	509.6	21.69	24.499			
4,560.0	4,482.9	4,515.4	4,471.1	16.5	15.7	116.03	598.6	-206.4	538.7	516.8	21.97	24.525			
4,600.0	4,521.7	4,556.7	4,512.3	16.6	15.8	116.82	600.1	-207.1	543.6	521.4	22.15	24.540			
4,634.9	4,555.6	4,592.6	4,548.2	16.8	15.9	117.55	600.9	-207.5	547.8	525.5	22.30	24.562			
4,655.0	4,575.1	4,613.1	4,568.8	16.9	16.0	118.00	601.2	-207.6	550.2	527.8	22.38	24.579			
4,700.0	4,618.9	4,658.6	4,614.3	17.1	16.0	119.00	601.4	-207.7	555.4	532.8	22.56	24.620			
4,750.0	4,667.6	4,707.3	4,663.0	17.3	16.1	120.05	601.4	-207.7	561.1	538.3	22.76	24.650			
4,800.0	4,716.3	4,756.1	4,711.7	17.6	16.1	121.03	601.4	-207.7	566.7	543.7	22.99	24.649			
4,845.0	4,760.3	4,800.1	4,755.7	17.8	16.1	121.87	601.4	-207.7	571.7	548.5	23.20	24.644			
4,900.0	4,814.2	4,854.0	4,809.6	18.0	16.1	122.85	601.4	-207.7	577.8	554.3	23.46	24.627			
4,940.0	4,853.5	4,893.2	4,848.9	18.2	16.2	123.51	601.4	-207.7	582.1	558.4	23.65	24.611			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,912.4	4,952.2	4,907.8	18.5	16.2	124.46	601.4	-207.7	588.3	564.4	23.94	24.576	
5,035.0	4,946.9	4,986.6	4,942.3	18.6	16.2	124.97	601.4	-207.7	591.9	567.8	24.11	24.554	
5,100.0	5,010.9	5,050.7	5,006.3	18.9	16.3	125.87	601.4	-207.7	598.3	573.9	24.42	24.500	
5,130.0	5,040.6	5,080.3	5,036.0	19.0	16.3	126.27	601.4	-207.7	601.1	576.6	24.56	24.474	
5,200.0	5,109.8	5,149.5	5,105.2	19.3	16.3	127.12	601.4	-207.7	607.5	582.6	24.90	24.401	
5,225.0	5,134.5	5,174.3	5,129.9	19.4	16.3	127.40	601.4	-207.7	609.7	584.7	25.01	24.373	
5,300.0	5,208.8	5,248.6	5,204.2	19.8	16.4	128.19	601.4	-207.7	615.9	590.5	25.37	24.280	
5,320.0	5,228.7	5,268.4	5,224.1	19.8	16.4	128.39	601.4	-207.7	617.5	592.0	25.46	24.255	
5,400.0	5,308.1	5,347.9	5,303.5	20.2	16.4	129.11	601.4	-207.7	623.4	597.6	25.82	24.141	
5,415.0	5,323.0	5,362.8	5,318.4	20.2	16.4	129.23	601.4	-207.7	624.4	598.5	25.89	24.120	
5,500.0	5,407.6	5,447.3	5,403.0	20.6	16.5	129.87	601.4	-207.7	629.9	603.6	26.26	23.985	
5,510.0	5,417.5	5,457.3	5,412.9	20.6	16.5	129.94	601.4	-207.7	630.5	604.2	26.30	23.969	
5,600.0	5,507.2	5,547.0	5,502.6	20.9	16.5	130.50	601.4	-207.7	635.4	608.7	26.68	23.814	
5,605.0	5,512.2	5,552.0	5,507.6	21.0	16.5	130.53	601.4	-207.7	635.6	608.9	26.70	23.806	
5,700.0	5,607.0	5,646.7	5,602.4	21.3	16.6	130.99	601.4	-207.7	639.7	612.7	27.07	23.630	
5,795.0	5,701.9	5,741.6	5,697.3	21.6	16.7	131.33	601.4	-207.7	642.9	615.5	27.42	23.446	
5,800.0	5,706.9	5,746.6	5,702.3	21.6	16.7	131.35	601.4	-207.7	643.0	615.6	27.44	23.436	
5,890.0	5,796.8	5,836.6	5,792.2	21.9	16.7	131.56	601.4	-207.7	645.0	617.3	27.73	23.256	
5,900.0	5,806.8	5,846.6	5,802.2	21.9	16.7	131.58	601.4	-207.7	645.2	617.4	27.77	23.235	
5,985.0	5,891.8	5,931.6	5,887.2	22.2	16.8	131.68	601.4	-207.7	646.1	618.1	28.01	23.069	
6,000.0	5,906.8	5,946.6	5,902.2	22.2	16.8	131.69	601.4	-207.7	646.2	618.1	28.05	23.038	
6,035.2	5,942.0	5,981.8	5,937.4	22.2	16.8	63.32	601.4	-207.7	646.2	618.1	28.11	22.993	
6,080.0	5,986.8	6,026.6	5,982.2	22.2	16.8	63.32	601.4	-207.7	646.2	618.1	28.16	22.948	
6,100.0	6,006.8	6,046.6	6,002.2	22.2	16.8	63.32	601.4	-207.7	646.2	618.0	28.18	22.928	
6,175.0	6,081.8	6,121.6	6,077.2	22.3	16.9	63.32	601.4	-207.7	646.2	617.9	28.29	22.843	
6,200.0	6,106.8	6,146.6	6,102.2	22.3	16.9	63.32	601.4	-207.7	646.2	617.9	28.33	22.814	
6,270.0	6,176.8	6,216.6	6,172.2	22.3	16.9	63.32	601.4	-207.7	646.2	617.8	28.42	22.735	
6,300.0	6,206.8	6,246.6	6,202.2	22.3	17.0	63.32	601.4	-207.7	646.2	617.8	28.47	22.702	
6,365.0	6,271.8	6,311.6	6,267.2	22.3	17.0	63.32	601.4	-207.7	646.2	617.7	28.56	22.629	
6,400.0	6,306.8	6,346.6	6,302.2	22.4	17.0	63.32	601.4	-207.7	646.2	617.6	28.61	22.590	
6,460.0	6,366.8	6,406.6	6,362.2	22.4	17.1	63.32	601.4	-207.7	646.2	617.5	28.69	22.523	
6,500.0	6,406.8	6,446.6	6,402.2	22.4	17.1	63.32	601.4	-207.7	646.2	617.5	28.75	22.479	
6,555.0	6,461.8	6,501.6	6,457.2	22.4	17.1	63.32	601.4	-207.7	646.2	617.4	28.83	22.419	
6,600.0	6,506.8	6,546.6	6,502.2	22.4	17.1	63.32	601.4	-207.7	646.2	617.3	28.89	22.369	
6,650.0	6,556.8	6,596.6	6,552.2	22.5	17.2	63.32	601.4	-207.7	646.2	617.3	28.96	22.315	
6,700.0	6,606.8	6,646.6	6,602.2	22.5	17.2	63.32	601.4	-207.7	646.2	617.2	29.03	22.261	
6,745.0	6,651.8	6,691.6	6,647.2	22.5	17.2	63.32	601.4	-207.7	646.2	617.1	29.09	22.212	
6,800.0	6,706.8	6,746.6	6,702.2	22.5	17.3	63.32	601.4	-207.7	646.2	617.1	29.17	22.153	
6,840.0	6,746.8	6,786.6	6,742.2	22.5	17.3	63.32	601.4	-207.7	646.2	617.0	29.23	22.110	
6,900.0	6,806.8	6,846.6	6,802.2	22.6	17.3	63.32	601.4	-207.7	646.2	616.9	29.31	22.046	
6,935.0	6,841.8	6,881.6	6,837.2	22.6	17.3	63.32	601.4	-207.7	646.2	616.9	29.36	22.009	
7,000.0	6,906.8	6,946.6	6,902.2	22.6	17.4	63.32	601.4	-207.7	646.2	616.8	29.45	21.941	
7,030.0	6,936.8	6,976.6	6,932.2	22.6	17.4	63.32	601.4	-207.7	646.2	616.7	29.50	21.909	
7,100.0	7,006.8	7,046.6	7,002.2	22.6	17.4	63.32	601.4	-207.7	646.2	616.6	29.59	21.836	
7,125.0	7,031.8	7,071.6	7,027.2	22.6	17.5	63.32	601.4	-207.7	646.2	616.6	29.63	21.810	
7,200.0	7,106.8	7,146.6	7,102.2	22.7	17.5	63.32	601.4	-207.7	646.2	616.5	29.74	21.732	
7,220.0	7,126.8	7,166.6	7,122.2	22.7	17.5	63.32	601.4	-207.7	646.2	616.5	29.76	21.711	
7,300.0	7,206.8	7,246.6	7,202.2	22.7	17.6	63.32	601.4	-207.7	646.2	616.3	29.88	21.629	
7,315.0	7,221.8	7,261.6	7,217.2	22.7	17.6	63.32	601.4	-207.7	646.2	616.3	29.90	21.613	
7,400.0	7,306.8	7,346.6	7,302.2	22.8	17.6	63.32	601.4	-207.7	646.2	616.2	30.02	21.527	
7,410.0	7,316.8	7,356.6	7,312.2	22.8	17.6	63.32	601.4	-207.7	646.2	616.2	30.03	21.517	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1													Offset Site Error: 0.0 usft		
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft		
Offset		Semi Major Axis		Offset Wellbore Centre		Distance								Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
7,500.0	7,406.8	7,446.6	7,402.2	22.8	17.7	63.32	601.4	-207.7	646.2	616.1	30.16	21.426			
7,505.0	7,411.8	7,451.6	7,407.2	22.8	17.7	63.32	601.4	-207.7	646.2	616.1	30.17	21.420			
7,600.0	7,506.8	7,546.6	7,502.2	22.8	17.8	63.32	601.4	-207.7	646.2	615.9	30.30	21.325			
7,695.0	7,601.8	7,641.6	7,597.2	22.9	17.8	63.32	601.4	-207.7	646.2	615.8	30.44	21.231			
7,700.0	7,606.8	7,646.6	7,602.2	22.9	17.8	63.32	601.4	-207.7	646.2	615.8	30.45	21.226			
7,790.0	7,696.8	7,736.6	7,692.2	22.9	17.9	63.32	601.4	-207.7	646.2	615.7	30.57	21.137			
7,800.0	7,706.8	7,746.6	7,702.2	22.9	17.9	63.32	601.4	-207.7	646.2	615.6	30.59	21.127			
7,885.0	7,791.8	7,831.6	7,787.2	23.0	17.9	63.32	601.4	-207.7	646.2	615.5	30.71	21.044			
7,900.0	7,806.8	7,846.6	7,802.2	23.0	17.9	63.32	601.4	-207.7	646.2	615.5	30.73	21.029			
7,980.0	7,886.8	7,926.6	7,882.2	23.0	18.0	63.32	601.4	-207.7	646.2	615.4	30.84	20.952			
8,000.0	7,906.8	7,946.6	7,902.2	23.0	18.0	63.32	601.4	-207.7	646.2	615.4	30.87	20.932			
8,075.0	7,981.8	8,021.6	7,977.2	23.0	18.1	63.32	601.4	-207.7	646.2	615.2	30.98	20.860			
8,100.0	8,006.8	8,046.6	8,002.2	23.0	18.1	63.32	601.4	-207.7	646.2	615.2	31.01	20.836			
8,170.0	8,076.8	8,116.6	8,072.2	23.1	18.1	63.32	601.4	-207.7	646.2	615.1	31.11	20.769			
8,200.0	8,106.8	8,146.6	8,102.2	23.1	18.1	63.32	601.4	-207.7	646.2	615.1	31.16	20.741			
8,265.0	8,171.8	8,211.6	8,167.2	23.1	18.2	63.32	601.4	-207.7	646.2	615.0	31.25	20.679			
8,300.0	8,206.8	8,246.6	8,202.2	23.1	18.2	63.32	601.4	-207.7	646.2	614.9	31.30	20.647			
8,360.0	8,266.8	8,306.6	8,262.2	23.2	18.2	63.32	601.4	-207.7	646.2	614.8	31.39	20.590			
8,400.0	8,306.8	8,346.6	8,302.2	23.2	18.3	63.32	601.4	-207.7	646.2	614.8	31.44	20.553			
8,455.0	8,361.8	8,401.6	8,357.2	23.2	18.3	63.32	601.4	-207.7	646.2	614.7	31.51	20.507			
8,483.2	8,390.0	8,429.8	8,385.4	23.2	18.3	63.32	601.4	-207.7	646.2	614.7	31.55	20.484			
8,500.0	8,406.8	8,446.6	8,402.2	23.2	18.3	-117.17	601.4	-207.7	646.3	614.8	31.56	20.479			
8,550.0	8,456.7	8,496.4	8,452.1	23.2	18.4	-117.30	601.4	-207.7	648.0	616.4	31.58	20.518			
8,600.0	8,506.0	8,545.8	8,501.4	23.2	18.4	-117.59	601.4	-207.7	651.7	620.2	31.56	20.651			
8,645.0	8,549.7	8,589.4	8,545.1	23.2	18.4	-117.95	601.4	-207.7	656.9	625.4	31.50	20.852			
8,650.0	8,554.5	8,594.2	8,549.9	23.2	18.4	-117.99	601.4	-207.7	657.6	626.1	31.49	20.880			
8,700.0	8,601.7	8,641.4	8,597.1	23.3	18.4	-118.47	601.4	-207.7	665.7	634.3	31.39	21.204			
8,740.0	8,638.3	8,678.0	8,633.7	23.3	18.5	-118.86	601.4	-207.7	673.9	642.6	31.30	21.533			
8,750.0	8,647.3	8,687.0	8,642.7	23.3	18.5	-118.95	601.4	-207.7	676.2	645.0	31.27	21.625			
8,800.0	8,690.9	8,730.7	8,686.3	23.3	18.5	-119.38	601.4	-207.7	689.4	658.2	31.13	22.142			
8,835.0	8,720.1	8,759.9	8,715.5	23.3	18.5	-119.60	601.4	-207.7	700.2	669.2	31.04	22.561			
8,850.0	8,732.3	8,772.0	8,727.7	23.3	18.5	-119.67	601.4	-207.7	705.3	674.3	30.99	22.755			
8,900.0	8,771.0	8,810.8	8,766.4	23.3	18.6	-119.75	601.4	-207.7	724.0	693.1	30.86	23.461			
8,930.0	8,792.9	8,832.6	8,788.3	23.4	18.6	-119.66	601.4	-207.7	736.7	705.9	30.79	23.927			
8,950.0	8,806.9	8,846.6	8,802.3	23.4	18.6	-119.54	601.4	-207.7	745.7	714.9	30.74	24.256			
9,000.0	8,839.5	8,879.3	8,834.9	23.4	18.6	-118.94	601.4	-207.7	770.3	739.7	30.65	25.134			
9,025.0	8,854.6	8,894.4	8,850.0	23.4	18.6	-118.46	601.4	-207.7	783.7	753.1	30.61	25.604			
9,050.0	8,868.8	8,908.5	8,864.2	23.4	18.6	-117.86	601.4	-207.7	797.9	767.3	30.58	26.092			
9,100.0	8,894.4	8,934.2	8,889.8	23.5	18.6	-116.19	601.4	-207.7	828.2	797.7	30.54	27.120			
9,120.0	8,903.6	8,943.3	8,899.0	23.5	18.6	-115.33	601.4	-207.7	841.1	810.5	30.53	27.550			
9,150.0	8,916.2	8,955.9	8,911.6	23.5	18.6	-113.82	601.4	-207.7	861.1	830.6	30.52	28.212			
9,200.0	8,933.9	8,973.7	8,929.3	23.6	18.7	-110.61	601.4	-207.7	896.5	865.9	30.53	29.361			
9,215.0	8,938.5	8,978.2	8,933.9	23.6	18.7	-109.46	601.4	-207.7	907.5	876.9	30.54	29.715			
9,250.0	8,947.6	8,987.3	8,943.0	23.6	18.7	-106.43	601.4	-207.7	933.9	903.3	30.56	30.558			
9,300.0	8,957.0	8,996.7	8,952.4	23.7	18.7	-101.18	601.4	-207.7	973.0	942.4	30.60	31.795			
9,310.0	8,958.3	8,998.1	8,953.7	23.7	18.7	-99.99	601.4	-207.7	981.0	950.4	30.61	32.047			
9,350.0	8,962.0	10,418.7	9,786.1	23.7	19.9	-145.20	-232.8	-214.6	1,008.6	968.8	39.84	25.319			
9,382.9	8,963.0	10,451.5	9,786.2	23.8	19.9	-145.22	-265.7	-214.9	1,007.9	967.9	39.97	25.214			
9,400.0	8,963.0	10,468.7	9,786.2	23.8	19.9	-145.22	-282.8	-215.0	1,007.9	967.8	40.04	25.171			
9,405.0	8,963.0	10,473.7	9,786.2	23.8	19.9	-145.22	-287.8	-215.1	1,007.9	967.8	40.06	25.158			
9,500.0	8,963.1	10,568.7	9,786.2	23.9	20.0	-145.21	-382.8	-215.8	1,007.8	967.4	40.48	24.897			

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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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	
9,595.0	8,963.1	10,663.7	9,786.3	24.1	20.1	-145.21	-477.8	-216.6	1,007.8	966.9	40.95	24.612	
9,600.0	8,963.1	10,668.7	9,786.3	24.1	20.1	-145.21	-482.8	-216.7	1,007.8	966.9	40.97	24.597	
9,690.0	8,963.2	10,758.7	9,786.3	24.3	20.1	-145.21	-572.8	-217.4	1,007.8	966.4	41.46	24.306	
9,700.0	8,963.2	10,768.7	9,786.3	24.3	20.1	-145.21	-582.8	-217.5	1,007.8	966.3	41.52	24.273	
9,785.0	8,963.3	10,853.7	9,786.4	24.5	20.2	-145.21	-667.8	-218.2	1,007.8	965.8	42.03	23.981	
9,800.0	8,963.3	10,868.7	9,786.4	24.5	20.2	-145.21	-682.8	-218.3	1,007.8	965.7	42.12	23.929	
9,880.0	8,963.3	10,948.7	9,786.4	24.7	20.3	-145.21	-762.8	-219.0	1,007.8	965.2	42.63	23.641	
9,900.0	8,963.3	10,968.7	9,786.4	24.7	20.4	-145.21	-782.8	-219.2	1,007.8	965.0	42.76	23.569	
9,975.0	8,963.4	11,043.7	9,786.5	24.9	20.5	-145.21	-857.8	-219.8	1,007.8	964.5	43.28	23.288	
10,000.0	8,963.4	11,068.7	9,786.5	25.0	20.5	-145.21	-882.8	-220.0	1,007.8	964.3	43.45	23.194	
10,070.0	8,963.5	11,138.7	9,786.5	25.1	20.6	-145.21	-952.8	-220.6	1,007.8	963.8	43.96	22.924	
10,100.0	8,963.5	11,168.7	9,786.5	25.2	20.6	-145.21	-982.8	-220.8	1,007.8	963.6	44.18	22.809	
10,165.0	8,963.5	11,233.7	9,786.6	25.4	20.8	-145.21	-1,047.8	-221.4	1,007.8	963.1	44.68	22.553	
10,200.0	8,963.5	11,268.7	9,786.6	25.5	20.8	-145.21	-1,082.8	-221.6	1,007.8	962.8	44.96	22.415	
10,260.0	8,963.6	11,328.7	9,786.6	25.7	20.9	-145.21	-1,142.8	-222.1	1,007.7	962.3	45.44	22.175	
10,300.0	8,963.6	11,368.7	9,786.6	25.8	21.0	-145.21	-1,182.8	-222.5	1,007.7	962.0	45.77	22.016	
10,355.0	8,963.7	11,423.7	9,786.7	26.0	21.2	-145.21	-1,237.8	-222.9	1,007.7	961.5	46.24	21.794	
10,400.0	8,963.7	11,468.7	9,786.7	26.1	21.3	-145.21	-1,282.8	-223.3	1,007.7	961.1	46.62	21.614	
10,450.0	8,963.7	11,518.7	9,786.7	26.3	21.4	-145.21	-1,332.8	-223.7	1,007.7	960.7	47.07	21.411	
10,500.0	8,963.7	11,568.7	9,786.7	26.4	21.6	-145.21	-1,382.8	-224.1	1,007.7	960.2	47.51	21.210	
10,545.0	8,963.8	11,613.7	9,786.8	26.6	21.7	-145.21	-1,427.8	-224.5	1,007.7	959.8	47.92	21.027	
10,600.0	8,963.8	11,668.7	9,786.8	26.8	21.9	-145.21	-1,482.8	-225.0	1,007.7	959.3	48.43	20.806	
10,640.0	8,963.8	11,708.7	9,786.8	26.9	22.0	-145.21	-1,522.8	-225.3	1,007.7	958.9	48.81	20.645	
10,700.0	8,963.9	11,768.7	9,786.8	27.1	22.3	-145.21	-1,582.8	-225.8	1,007.7	958.3	49.39	20.405	
10,735.0	8,963.9	11,803.7	9,786.9	27.3	22.4	-145.21	-1,617.8	-226.1	1,007.7	958.0	49.73	20.265	
10,800.0	8,963.9	11,868.7	9,786.9	27.5	22.7	-145.21	-1,682.8	-226.6	1,007.7	957.3	50.37	20.007	
10,830.0	8,964.0	11,898.7	9,786.9	27.6	22.8	-145.21	-1,712.8	-226.9	1,007.7	957.0	50.67	19.888	
10,900.0	8,964.0	11,968.7	9,786.9	27.9	23.1	-145.21	-1,782.8	-227.4	1,007.7	956.3	51.38	19.613	
10,925.0	8,964.0	11,993.7	9,787.0	28.0	23.2	-145.21	-1,807.8	-227.6	1,007.7	956.0	51.63	19.515	
11,000.0	8,964.1	12,068.7	9,787.0	28.3	23.6	-145.21	-1,882.8	-228.3	1,007.7	955.2	52.41	19.225	
11,020.0	8,964.1	12,088.7	9,787.0	28.4	23.7	-145.21	-1,902.8	-228.4	1,007.7	955.0	52.62	19.148	
11,100.0	8,964.1	12,168.7	9,787.1	28.7	24.1	-145.21	-1,982.8	-229.1	1,007.6	954.2	53.48	18.843	
11,115.0	8,964.2	12,183.7	9,787.1	28.8	24.1	-145.21	-1,997.8	-229.2	1,007.6	954.0	53.64	18.786	
11,200.0	8,964.2	12,268.7	9,787.1	29.2	24.6	-145.21	-2,082.8	-229.9	1,007.6	953.1	54.56	18.468	
11,210.0	8,964.2	12,278.7	9,787.1	29.2	24.6	-145.21	-2,092.8	-230.0	1,007.6	953.0	54.67	18.431	
11,300.0	8,964.3	12,368.7	9,787.2	29.6	25.1	-145.21	-2,182.8	-230.7	1,007.6	951.9	55.67	18.100	
11,305.0	8,964.3	12,373.7	9,787.2	29.6	25.2	-145.21	-2,187.8	-230.8	1,007.6	951.9	55.72	18.082	
11,400.0	8,964.3	12,468.7	9,787.2	30.1	25.7	-145.21	-2,282.8	-231.6	1,007.6	950.8	56.80	17.741	
11,495.0	8,964.4	12,563.7	9,787.3	30.5	26.2	-145.21	-2,377.8	-232.4	1,007.6	949.7	57.89	17.406	
11,500.0	8,964.4	12,568.7	9,787.3	30.6	26.3	-145.21	-2,382.8	-232.4	1,007.6	949.6	57.94	17.389	
11,590.0	8,964.5	12,658.7	9,787.3	31.0	26.8	-145.21	-2,472.7	-233.1	1,007.6	948.6	58.99	17.079	
11,600.0	8,964.5	12,668.7	9,787.3	31.0	26.9	-145.21	-2,482.7	-233.2	1,007.6	948.5	59.11	17.045	
11,685.0	8,964.5	12,753.7	9,787.4	31.5	27.4	-145.21	-2,567.7	-233.9	1,007.6	947.5	60.12	16.760	
11,700.0	8,964.6	12,768.7	9,787.4	31.5	27.5	-145.21	-2,582.7	-234.1	1,007.6	947.3	60.30	16.711	
11,780.0	8,964.6	12,848.7	9,787.4	31.9	28.0	-145.21	-2,662.7	-234.7	1,007.6	946.3	61.26	16.449	
11,800.0	8,964.6	12,868.7	9,787.4	32.0	28.1	-145.21	-2,682.7	-234.9	1,007.6	946.1	61.50	16.384	
11,875.0	8,964.7	12,943.7	9,787.5	32.4	28.6	-145.20	-2,757.7	-235.5	1,007.5	945.1	62.41	16.145	
11,900.0	8,964.7	12,968.7	9,787.5	32.6	28.7	-145.20	-2,782.7	-235.7	1,007.5	944.8	62.71	16.066	
11,970.0	8,964.7	13,038.7	9,787.5	32.9	29.2	-145.20	-2,852.7	-236.3	1,007.5	944.0	63.57	15.849	
12,000.0	8,964.8	13,068.7	9,787.5	33.1	29.3	-145.20	-2,882.7	-236.5	1,007.5	943.6	63.94	15.757	
12,065.0	8,964.8	13,133.7	9,787.6	33.4	29.8	-145.20	-2,947.7	-237.1	1,007.5	942.8	64.75	15.560	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS														Offset Well Error: 3.0 usft	
Reference Offset				Semi Major Axis				Offset Wellbore Centre		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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
12,100.0	8,964.8	13,168.7	9,787.6	33.6	30.0	-145.20	-2,982.7	-237.4	1,007.5	942.3	65.19	15.456			
12,160.0	8,964.9	13,228.7	9,787.6	34.0	30.4	-145.20	-3,042.7	-237.9	1,007.5	941.6	65.94	15.279			
12,200.0	8,964.9	13,268.7	9,787.6	34.2	30.6	-145.20	-3,082.7	-238.2	1,007.5	941.1	66.44	15.163			
12,255.0	8,964.9	13,323.7	9,787.7	34.5	31.0	-145.20	-3,137.7	-238.7	1,007.5	940.4	67.14	15.006			
12,300.0	8,965.0	13,368.7	9,787.7	34.7	31.3	-145.20	-3,182.7	-239.0	1,007.5	939.8	67.71	14.879			
12,350.0	8,965.0	13,418.7	9,787.7	35.0	31.6	-145.20	-3,232.7	-239.4	1,007.5	939.1	68.35	14.739			
12,400.0	8,965.0	13,468.7	9,787.7	35.3	32.0	-145.20	-3,282.7	-239.9	1,007.5	938.5	68.99	14.602			
12,445.0	8,965.0	13,513.7	9,787.8	35.5	32.3	-145.20	-3,327.7	-240.2	1,007.5	937.9	69.58	14.480			
12,500.0	8,965.1	13,568.7	9,787.8	35.9	32.6	-145.20	-3,382.7	-240.7	1,007.5	937.2	70.29	14.334			
12,540.0	8,965.1	13,608.7	9,787.8	36.1	32.9	-145.20	-3,422.7	-241.0	1,007.5	936.7	70.81	14.228			
12,600.0	8,965.2	13,668.7	9,787.8	36.4	33.3	-145.20	-3,482.7	-241.5	1,007.5	935.9	71.59	14.073			
12,635.0	8,965.2	13,703.7	9,787.9	36.6	33.5	-145.20	-3,517.7	-241.8	1,007.5	935.4	72.05	13.983			
12,700.0	8,965.2	13,768.7	9,787.9	37.0	34.0	-145.20	-3,582.7	-242.3	1,007.4	934.5	72.90	13.819			
12,730.0	8,965.2	13,798.7	9,787.9	37.2	34.2	-145.20	-3,612.7	-242.6	1,007.4	934.1	73.30	13.744			
12,800.0	8,965.3	13,868.7	9,787.9	37.6	34.7	-145.20	-3,682.7	-243.2	1,007.4	933.2	74.22	13.573			
12,825.0	8,965.3	13,893.7	9,788.0	37.8	34.8	-145.20	-3,707.7	-243.4	1,007.4	932.9	74.56	13.512			
12,900.0	8,965.4	13,968.7	9,788.0	38.2	35.4	-145.20	-3,782.7	-244.0	1,007.4	931.9	75.56	13.333			
12,920.0	8,965.4	13,988.7	9,788.0	38.3	35.5	-145.20	-3,802.7	-244.2	1,007.4	931.6	75.82	13.286			
13,000.0	8,965.4	14,068.7	9,788.1	38.8	36.0	-145.20	-3,882.7	-244.8	1,007.4	930.5	76.89	13.101			
13,015.0	8,965.4	14,083.7	9,788.1	38.9	36.1	-145.20	-3,897.7	-244.9	1,007.4	930.3	77.10	13.067			
13,100.0	8,965.5	14,168.7	9,788.1	39.4	36.7	-145.20	-3,982.7	-245.6	1,007.4	929.2	78.24	12.875			
13,110.0	8,965.5	14,178.7	9,788.1	39.5	36.8	-145.20	-3,992.7	-245.7	1,007.4	929.0	78.38	12.853			
13,200.0	8,965.6	14,268.7	9,788.2	40.0	37.4	-145.20	-4,082.7	-246.5	1,007.4	927.8	79.60	12.656			
13,205.0	8,965.6	14,273.7	9,788.2	40.1	37.5	-145.20	-4,087.7	-246.5	1,007.4	927.7	79.66	12.645			
13,300.0	8,965.6	14,368.7	9,788.2	40.7	38.1	-145.20	-4,182.7	-247.3	1,007.4	926.4	80.96	12.443			
13,395.0	8,965.7	14,463.7	9,788.3	41.3	38.8	-145.20	-4,277.7	-248.1	1,007.4	925.1	82.26	12.246			
13,400.0	8,965.7	14,468.7	9,788.3	41.3	38.8	-145.20	-4,282.7	-248.1	1,007.4	925.0	82.33	12.236			
13,490.0	8,965.7	14,558.7	9,788.3	41.9	39.5	-145.20	-4,372.7	-248.9	1,007.3	923.8	83.56	12.055			
13,500.0	8,965.8	14,568.7	9,788.3	41.9	39.5	-145.20	-4,382.7	-249.0	1,007.3	923.6	83.70	12.035			
13,585.0	8,965.8	14,653.7	9,788.4	42.5	40.1	-145.20	-4,467.7	-249.7	1,007.3	922.5	84.88	11.868			
13,600.0	8,965.8	14,668.7	9,788.4	42.5	40.2	-145.20	-4,482.7	-249.8	1,007.3	922.2	85.08	11.839			
13,680.0	8,965.9	14,748.7	9,788.4	43.1	40.8	-145.20	-4,562.7	-250.4	1,007.3	921.1	86.19	11.687			
13,700.0	8,965.9	14,768.7	9,788.4	43.2	41.0	-145.20	-4,582.7	-250.6	1,007.3	920.8	86.47	11.649			
13,775.0	8,965.9	14,843.7	9,788.5	43.7	41.5	-145.20	-4,657.7	-251.2	1,007.3	919.8	87.52	11.510			
13,800.0	8,966.0	14,868.7	9,788.5	43.8	41.7	-145.20	-4,682.7	-251.4	1,007.3	919.4	87.86	11.464			
13,870.0	8,966.0	14,938.7	9,788.5	44.3	42.2	-145.20	-4,752.7	-252.0	1,007.3	918.5	88.84	11.338			
13,900.0	8,966.0	14,968.7	9,788.5	44.5	42.4	-145.20	-4,782.7	-252.3	1,007.3	918.0	89.26	11.285			
13,965.0	8,966.1	15,033.7	9,788.6	44.9	42.8	-145.20	-4,847.7	-252.8	1,007.3	917.1	90.17	11.170			
14,000.0	8,966.1	15,068.7	9,788.6	45.1	43.1	-145.20	-4,882.7	-253.1	1,007.3	916.6	90.67	11.110			
14,060.0	8,966.1	15,128.7	9,788.6	45.5	43.5	-145.20	-4,942.7	-253.6	1,007.3	915.8	91.51	11.007			
14,100.0	8,966.2	15,168.7	9,788.6	45.8	43.8	-145.20	-4,982.7	-253.9	1,007.3	915.2	92.07	10.940			
14,155.0	8,966.2	15,223.7	9,788.7	46.1	44.2	-145.19	-5,037.7	-254.4	1,007.3	914.4	92.85	10.848			
14,200.0	8,966.2	15,268.7	9,788.7	46.4	44.5	-145.19	-5,082.7	-254.7	1,007.3	913.8	93.49	10.774			
14,250.0	8,966.3	15,318.7	9,788.7	46.8	44.9	-145.19	-5,132.7	-255.2	1,007.3	913.1	94.20	10.693			
14,300.0	8,966.3	15,368.7	9,788.7	47.1	45.3	-145.19	-5,182.7	-255.6	1,007.2	912.3	94.90	10.613			
14,345.0	8,966.3	15,413.7	9,788.8	47.4	45.6	-145.19	-5,227.7	-255.9	1,007.2	911.7	95.54	10.542			
14,400.0	8,966.4	15,468.7	9,788.8	47.8	46.0	-145.19	-5,282.7	-256.4	1,007.2	910.9	96.33	10.457			
14,440.0	8,966.4	15,508.7	9,788.8	48.0	46.3	-145.19	-5,322.6	-256.7	1,007.2	910.3	96.90	10.395			
14,500.0	8,966.4	15,568.7	9,788.8	48.4	46.7	-145.19	-5,382.6	-257.2	1,007.2	909.5	97.75	10.304			
14,535.0	8,966.4	15,603.7	9,788.9	48.7	46.9	-145.19	-5,417.6	-257.5	1,007.2	909.0	98.25	10.251			
14,600.0	8,966.5	15,668.7	9,788.9	49.1	47.4	-145.19	-5,482.6	-258.1	1,007.2	908.0	99.18	10.155			

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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,630.0	8,966.5	15,698.7	9,788.9	49.3	47.6	-145.19	-5,512.6	-258.3	1,007.2	907.6	99.61	10.111		
14,700.0	8,966.6	15,768.7	9,788.9	49.8	48.1	-145.19	-5,582.6	-258.9	1,007.2	906.6	100.61	10.011		
14,725.0	8,966.6	15,793.7	9,789.0	50.0	48.3	-145.19	-5,607.6	-259.1	1,007.2	906.2	100.97	9.975		
14,800.0	8,966.6	15,868.7	9,789.0	50.5	48.9	-145.19	-5,682.6	-259.7	1,007.2	905.1	102.05	9.869		
14,820.0	8,966.6	15,888.7	9,789.0	50.6	49.0	-145.19	-5,702.6	-259.9	1,007.2	904.8	102.34	9.842		
14,900.0	8,966.7	15,968.7	9,789.0	51.1	49.6	-145.19	-5,782.6	-260.5	1,007.2	903.7	103.49	9.732		
14,915.0	8,966.7	15,983.7	9,789.1	51.2	49.7	-145.19	-5,797.6	-260.7	1,007.2	903.5	103.71	9.712		
15,000.0	8,966.8	16,068.7	9,789.1	51.8	50.3	-145.19	-5,882.6	-261.4	1,007.2	902.2	104.93	9.598		
15,010.0	8,966.8	16,078.7	9,789.1	51.9	50.4	-145.19	-5,892.6	-261.5	1,007.2	902.1	105.08	9.585		
15,100.0	8,966.8	16,168.7	9,789.2	52.5	51.1	-145.19	-5,982.6	-262.2	1,007.1	900.8	106.38	9.467		
15,105.0	8,966.8	16,173.7	9,789.2	52.5	51.1	-145.19	-5,987.6	-262.2	1,007.1	900.7	106.45	9.461		
15,200.0	8,966.9	16,268.7	9,789.2	53.2	51.8	-145.19	-6,082.6	-263.0	1,007.1	899.3	107.83	9.340		
15,295.0	8,967.0	16,363.7	9,789.3	53.8	52.5	-145.19	-6,177.6	-263.8	1,007.1	897.9	109.21	9.222		
15,300.0	8,967.0	16,368.7	9,789.3	53.9	52.5	-145.19	-6,182.6	-263.9	1,007.1	897.8	109.28	9.216		
15,390.0	8,967.0	16,458.7	9,789.3	54.5	53.2	-145.19	-6,272.6	-264.6	1,007.1	896.5	110.59	9.107		
15,400.0	8,967.0	16,468.7	9,789.3	54.6	53.3	-145.19	-6,282.6	-264.7	1,007.1	896.4	110.74	9.095		
15,485.0	8,967.1	16,553.7	9,789.4	55.2	53.9	-145.19	-6,367.6	-265.4	1,007.1	895.1	111.98	8.994		
15,500.0	8,967.1	16,568.7	9,789.4	55.3	54.0	-145.19	-6,382.6	-265.5	1,007.1	894.9	112.20	8.976		
15,580.0	8,967.1	16,648.7	9,789.4	55.8	54.6	-145.19	-6,462.6	-266.2	1,007.1	893.7	113.36	8.884		
15,600.0	8,967.2	16,668.7	9,789.4	56.0	54.7	-145.19	-6,482.6	-266.3	1,007.1	893.4	113.66	8.861		
15,675.0	8,967.2	16,743.7	9,789.5	56.5	55.3	-145.19	-6,557.6	-267.0	1,007.1	892.3	114.75	8.776		
15,700.0	8,967.2	16,768.7	9,789.5	56.7	55.5	-145.19	-6,582.6	-267.2	1,007.1	892.0	115.12	8.748		
15,770.0	8,967.3	16,838.7	9,789.5	57.1	56.0	-145.19	-6,652.6	-267.7	1,007.1	890.9	116.14	8.671		
15,800.0	8,967.3	16,868.7	9,789.5	57.3	56.2	-145.19	-6,682.6	-268.0	1,007.1	890.5	116.58	8.638		
15,865.0	8,967.3	16,933.7	9,789.6	57.8	56.7	-145.19	-6,747.6	-268.5	1,007.1	889.5	117.54	8.568		
15,900.0	8,967.4	16,968.7	9,789.6	58.0	56.9	-145.19	-6,782.6	-268.8	1,007.0	889.0	118.05	8.531		
15,960.0	8,967.4	17,028.7	9,789.6	58.5	57.4	-145.19	-6,842.6	-269.3	1,007.0	888.1	118.93	8.467		
16,000.0	8,967.4	17,068.7	9,789.6	58.7	57.7	-145.19	-6,882.6	-269.6	1,007.0	887.5	119.52	8.426		
16,055.0	8,967.5	17,123.7	9,789.7	59.1	58.1	-145.19	-6,937.6	-270.1	1,007.0	886.7	120.33	8.369		
16,100.0	8,967.5	17,168.7	9,789.7	59.5	58.4	-145.19	-6,982.6	-270.5	1,007.0	886.0	120.99	8.323		
16,150.0	8,967.5	17,218.7	9,789.7	59.8	58.8	-145.19	-7,032.6	-270.9	1,007.0	885.3	121.73	8.272		
16,200.0	8,967.6	17,268.7	9,789.7	60.2	59.2	-145.19	-7,082.6	-271.3	1,007.0	884.5	122.47	8.223		
16,245.0	8,967.6	17,313.7	9,789.8	60.5	59.5	-145.19	-7,127.6	-271.7	1,007.0	883.9	123.13	8.178		
16,300.0	8,967.6	17,368.7	9,789.8	60.9	59.9	-145.19	-7,182.6	-272.1	1,007.0	883.1	123.94	8.125		
16,340.0	8,967.7	17,408.7	9,789.8	61.1	60.2	-145.19	-7,222.6	-272.5	1,007.0	882.5	124.53	8.086		
16,400.0	8,967.7	17,468.7	9,789.8	61.6	60.6	-145.19	-7,282.6	-273.0	1,007.0	881.6	125.42	8.029		
16,435.0	8,967.7	17,503.7	9,789.9	61.8	60.9	-145.19	-7,317.6	-273.2	1,007.0	881.0	125.94	7.996		
16,500.0	8,967.8	17,568.7	9,789.9	62.3	61.4	-145.18	-7,382.6	-273.8	1,007.0	880.1	126.90	7.935		
16,530.0	8,967.8	17,598.7	9,789.9	62.5	61.6	-145.18	-7,412.6	-274.0	1,007.0	879.6	127.35	7.907		
16,600.0	8,967.8	17,668.7	9,789.9	63.0	62.1	-145.18	-7,482.6	-274.6	1,007.0	878.6	128.38	7.843		
16,625.0	8,967.8	17,693.7	9,790.0	63.2	62.3	-145.18	-7,507.6	-274.8	1,007.0	878.2	128.75	7.821		
16,700.0	8,967.9	17,768.7	9,790.0	63.7	62.9	-145.18	-7,582.6	-275.4	1,006.9	877.1	129.87	7.754		
16,720.0	8,967.9	17,788.7	9,790.0	63.8	63.0	-145.18	-7,602.6	-275.6	1,006.9	876.8	130.16	7.736		
16,800.0	8,968.0	17,868.7	9,790.0	64.4	63.6	-145.18	-7,682.6	-276.3	1,006.9	875.6	131.35	7.666		
16,815.0	8,968.0	17,883.7	9,790.1	64.5	63.7	-145.18	-7,697.6	-276.4	1,006.9	875.4	131.57	7.653		
16,900.0	8,968.0	17,968.7	9,790.1	65.1	64.4	-145.18	-7,782.6	-277.1	1,006.9	874.1	132.84	7.580		
16,910.0	8,968.0	17,978.7	9,790.1	65.2	64.4	-145.18	-7,792.6	-277.2	1,006.9	873.9	132.99	7.572		
17,000.0	8,968.1	18,068.7	9,790.1	65.8	65.1	-145.18	-7,882.6	-277.9	1,006.9	872.6	134.33	7.496		
17,005.0	8,968.1	18,073.7	9,790.2	65.9	65.1	-145.18	-7,887.6	-278.0	1,006.9	872.5	134.40	7.492		
17,100.0	8,968.2	18,168.7	9,790.2	66.6	65.8	-145.18	-7,982.6	-278.8	1,006.9	871.1	135.81	7.414		
17,195.0	8,968.2	18,263.7	9,790.3	67.2	66.5	-145.18	-8,077.6	-279.5	1,006.9	869.7	137.23	7.337		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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	
17,200.0	8,968.2	18,268.7	9,790.3	67.3	66.6	-145.18	-8,082.6	-279.6	1,006.9	869.6	137.31	7.333
17,290.0	8,968.3	18,358.7	9,790.3	67.9	67.3	-145.18	-8,172.6	-280.3	1,006.9	868.2	138.65	7.262
17,300.0	8,968.3	18,368.7	9,790.3	68.0	67.3	-145.18	-8,182.6	-280.4	1,006.9	868.1	138.80	7.254
17,385.0	8,968.4	18,453.7	9,790.4	68.6	68.0	-145.18	-8,267.5	-281.1	1,006.9	866.8	140.07	7.188
17,400.0	8,968.4	18,468.7	9,790.4	68.7	68.1	-145.18	-8,282.5	-281.2	1,006.9	866.6	140.29	7.177
17,480.0	8,968.4	18,548.7	9,790.4	69.3	68.7	-145.18	-8,362.5	-281.9	1,006.9	865.4	141.49	7.116
17,500.0	8,968.4	18,568.7	9,790.4	69.4	68.8	-145.18	-8,382.5	-282.1	1,006.9	865.1	141.79	7.101
17,575.0	8,968.5	18,643.7	9,790.5	70.0	69.4	-145.18	-8,457.5	-282.7	1,006.8	863.9	142.91	7.045
17,600.0	8,968.5	18,668.7	9,790.5	70.2	69.6	-145.18	-8,482.5	-282.9	1,006.8	863.6	143.28	7.027
17,670.0	8,968.5	18,738.7	9,790.5	70.7	70.1	-145.18	-8,552.5	-283.5	1,006.8	862.5	144.33	6.976
17,700.0	8,968.6	18,768.7	9,790.5	70.9	70.3	-145.18	-8,582.5	-283.7	1,006.8	862.0	144.78	6.954
17,765.0	8,968.6	18,833.7	9,790.6	71.3	70.8	-145.18	-8,647.5	-284.3	1,006.8	861.1	145.75	6.908
17,800.0	8,968.6	18,868.7	9,790.6	71.6	71.1	-145.18	-8,682.5	-284.5	1,006.8	860.5	146.28	6.883
17,860.0	8,968.7	18,928.7	9,790.6	72.0	71.5	-145.18	-8,742.5	-285.0	1,006.8	859.6	147.18	6.841
17,900.0	8,968.7	18,968.7	9,790.6	72.3	71.8	-145.18	-8,782.5	-285.4	1,006.8	859.0	147.78	6.813
17,955.0	8,968.7	19,023.7	9,790.6	72.7	72.2	-145.18	-8,837.5	-285.8	1,006.8	858.2	148.60	6.775
18,000.0	8,968.8	19,068.7	9,790.7	73.1	72.6	-145.18	-8,882.5	-286.2	1,006.8	857.5	149.28	6.744
18,050.0	8,968.8	19,118.7	9,790.7	73.4	72.9	-145.18	-8,932.5	-286.6	1,006.8	856.8	150.03	6.710
18,100.0	8,968.8	19,168.7	9,790.7	73.8	73.3	-145.18	-8,982.5	-287.0	1,006.8	856.0	150.78	6.677
18,145.0	8,968.9	19,213.7	9,790.7	74.1	73.6	-145.18	-9,027.5	-287.4	1,006.8	855.3	151.46	6.647
18,200.0	8,968.9	19,268.7	9,790.8	74.5	74.1	-145.18	-9,082.5	-287.9	1,006.8	854.5	152.29	6.611
18,240.0	8,968.9	19,308.7	9,790.8	74.8	74.4	-145.18	-9,122.5	-288.2	1,006.8	853.9	152.89	6.585
18,300.0	8,969.0	19,368.7	9,790.8	75.2	74.8	-145.18	-9,182.5	-288.7	1,006.8	853.0	153.79	6.546
18,335.0	8,969.0	19,403.7	9,790.8	75.5	75.1	-145.18	-9,217.5	-289.0	1,006.7	852.4	154.32	6.524
18,400.0	8,969.0	19,468.7	9,790.9	76.0	75.6	-145.18	-9,282.5	-289.5	1,006.7	851.4	155.29	6.483
18,430.0	8,969.1	19,498.7	9,790.9	76.2	75.8	-145.18	-9,312.5	-289.8	1,006.7	851.0	155.75	6.464
18,500.0	8,969.1	19,568.7	9,790.9	76.7	76.3	-145.18	-9,382.5	-290.3	1,006.7	849.9	156.80	6.420
18,525.0	8,969.1	19,593.7	9,790.9	76.9	76.5	-145.18	-9,407.5	-290.5	1,006.7	849.5	157.18	6.405
18,600.0	8,969.2	19,668.7	9,791.0	77.4	77.1	-145.18	-9,482.5	-291.2	1,006.7	848.4	158.31	6.359
18,620.0	8,969.2	19,688.7	9,791.0	77.6	77.2	-145.18	-9,502.5	-291.3	1,006.7	848.1	158.61	6.347
18,700.0	8,969.2	19,768.7	9,791.0	78.1	77.8	-145.18	-9,582.5	-292.0	1,006.7	846.9	159.82	6.299
18,715.0	8,969.2	19,783.7	9,791.0	78.3	77.9	-145.18	-9,597.5	-292.1	1,006.7	846.7	160.04	6.290
18,800.0	8,969.3	19,868.7	9,791.1	78.9	78.6	-145.17	-9,682.5	-292.8	1,006.7	845.4	161.32	6.240
18,810.0	8,969.3	19,878.7	9,791.1	79.0	78.6	-145.17	-9,692.5	-292.9	1,006.7	845.2	161.48	6.234
18,900.0	8,969.4	19,968.7	9,791.1	79.6	79.3	-145.17	-9,782.5	-293.7	1,006.7	843.8	162.83	6.182
18,905.0	8,969.4	19,973.7	9,791.1	79.6	79.3	-145.17	-9,787.5	-293.7	1,006.7	843.8	162.91	6.179
19,000.0	8,969.4	20,068.7	9,791.2	80.3	80.1	-145.17	-9,882.5	-294.5	1,006.7	842.3	164.34	6.125
19,095.0	8,969.5	20,163.7	9,791.2	81.0	80.8	-145.17	-9,977.5	-295.3	1,006.7	840.9	165.78	6.072
19,100.0	8,969.5	20,168.7	9,791.3	81.1	80.8	-145.17	-9,982.5	-295.3	1,006.7	840.8	165.86	6.069
19,190.0	8,969.6	20,258.7	9,791.3	81.7	81.5	-145.17	-10,072.5	-296.1	1,006.6	839.4	167.22	6.020
19,200.0	8,969.6	20,268.7	9,791.3	81.8	81.6	-145.17	-10,082.5	-296.1	1,006.6	839.3	167.37	6.015
19,285.0	8,969.6	20,353.7	9,791.3	82.4	82.2	-145.17	-10,167.5	-296.8	1,006.6	838.0	168.65	5.969
19,300.0	8,969.6	20,368.7	9,791.4	82.5	82.3	-145.17	-10,182.5	-297.0	1,006.6	837.7	168.88	5.961
19,380.0	8,969.7	20,448.7	9,791.4	83.1	82.9	-145.17	-10,262.5	-297.6	1,006.6	836.5	170.09	5.918
19,400.0	8,969.7	20,468.7	9,791.4	83.3	83.1	-145.17	-10,282.5	-297.8	1,006.6	836.2	170.39	5.908
19,475.0	8,969.8	20,543.7	9,791.4	83.8	83.6	-145.17	-10,357.5	-298.4	1,006.6	835.1	171.53	5.868
19,500.0	8,969.8	20,568.7	9,791.5	84.0	83.8	-145.17	-10,382.5	-298.6	1,006.6	834.7	171.91	5.855
19,570.0	8,969.8	20,638.7	9,791.5	84.5	84.3	-145.17	-10,452.5	-299.2	1,006.6	833.6	172.97	5.819
19,600.0	8,969.8	20,668.7	9,791.5	84.7	84.6	-145.17	-10,482.5	-299.4	1,006.6	833.2	173.42	5.804
19,665.0	8,969.9	20,733.7	9,791.5	85.2	85.1	-145.17	-10,547.5	-300.0	1,006.6	832.2	174.41	5.771
19,700.0	8,969.9	20,768.7	9,791.6	85.5	85.3	-145.17	-10,582.5	-300.3	1,006.6	831.6	174.94	5.754

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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
19,760.0	8,969.9	20,828.7	9,791.6	85.9	85.8	-145.17	-10,642.5	-300.8	1,006.6	830.7	175.85	5.724		
19,800.0	8,970.0	20,868.7	9,791.6	86.2	86.1	-145.17	-10,682.5	-301.1	1,006.6	830.1	176.46	5.704		
19,855.0	8,970.0	20,923.7	9,791.6	86.6	86.5	-145.17	-10,737.5	-301.6	1,006.6	829.3	177.29	5.677		
19,900.0	8,970.0	20,968.7	9,791.7	87.0	86.8	-145.17	-10,782.5	-301.9	1,006.6	828.6	177.97	5.656		
19,950.0	8,970.1	21,018.7	9,791.7	87.3	87.2	-145.17	-10,832.5	-302.3	1,006.5	827.8	178.73	5.632		
20,000.0	8,970.1	21,068.7	9,791.7	87.7	87.6	-145.17	-10,882.5	-302.8	1,006.5	827.0	179.49	5.608		
20,045.0	8,970.1	21,113.7	9,791.7	88.0	87.9	-145.17	-10,927.5	-303.1	1,006.5	826.4	180.17	5.586		
20,100.0	8,970.2	21,168.7	9,791.8	88.4	88.3	-145.17	-10,982.5	-303.6	1,006.5	825.5	181.01	5.561		
20,140.0	8,970.2	21,208.7	9,791.8	88.7	88.6	-145.17	-11,022.5	-303.9	1,006.5	824.9	181.62	5.542		
20,200.0	8,970.2	21,268.7	9,791.8	89.2	89.1	-145.17	-11,082.5	-304.4	1,006.5	824.0	182.53	5.514		
20,235.0	8,970.3	21,303.7	9,791.8	89.4	89.4	-145.17	-11,117.4	-304.7	1,006.5	823.5	183.06	5.498		
20,300.0	8,970.3	21,368.7	9,791.9	89.9	89.8	-145.17	-11,182.4	-305.2	1,006.5	822.5	184.05	5.469		
20,330.0	8,970.3	21,398.7	9,791.9	90.1	90.1	-145.17	-11,212.4	-305.5	1,006.5	822.0	184.50	5.455		
20,400.0	8,970.4	21,468.7	9,791.9	90.6	90.6	-145.17	-11,282.4	-306.1	1,006.5	820.9	185.57	5.424		
20,425.0	8,970.4	21,493.7	9,791.9	90.8	90.8	-145.17	-11,307.4	-306.3	1,006.5	820.5	185.95	5.413		
20,500.0	8,970.4	21,568.7	9,792.0	91.4	91.4	-145.17	-11,382.4	-306.9	1,006.5	819.4	187.09	5.380		
20,520.0	8,970.5	21,588.7	9,792.0	91.5	91.5	-145.17	-11,402.4	-307.1	1,006.5	819.1	187.39	5.371		
20,600.0	8,970.5	21,668.7	9,792.0	92.1	92.1	-145.17	-11,482.4	-307.7	1,006.5	817.9	188.61	5.336		
20,615.0	8,970.5	21,683.7	9,792.0	92.2	92.2	-145.17	-11,497.4	-307.8	1,006.5	817.6	188.84	5.330		
20,700.0	8,970.6	21,768.7	9,792.1	92.9	92.9	-145.17	-11,582.4	-308.6	1,006.5	816.3	190.13	5.293		
20,710.0	8,970.6	21,778.7	9,792.1	92.9	92.9	-145.17	-11,592.4	-308.6	1,006.5	816.2	190.28	5.289		
20,800.0	8,970.6	21,868.7	9,792.1	93.6	93.6	-145.17	-11,682.4	-309.4	1,006.4	814.8	191.66	5.251		
20,805.0	8,970.6	21,873.7	9,792.1	93.6	93.7	-145.17	-11,687.4	-309.4	1,006.4	814.7	191.73	5.249		
20,900.0	8,970.7	21,968.7	9,792.2	94.3	94.4	-145.17	-11,782.4	-310.2	1,006.4	813.3	193.18	5.210		
20,995.0	8,970.8	22,063.7	9,792.2	95.1	95.1	-145.17	-11,877.4	-311.0	1,006.4	811.8	194.63	5.171		
21,000.0	8,970.8	22,068.7	9,792.2	95.1	95.1	-145.17	-11,882.4	-311.0	1,006.4	811.7	194.70	5.169		
21,090.0	8,970.8	22,158.7	9,792.3	95.8	95.8	-145.17	-11,972.4	-311.8	1,006.4	810.3	196.07	5.133		
21,100.0	8,970.8	22,168.7	9,792.3	95.8	95.9	-145.16	-11,982.4	-311.9	1,006.4	810.2	196.23	5.129		
21,185.0	8,970.9	22,253.7	9,792.3	96.5	96.5	-145.16	-12,067.4	-312.6	1,006.4	808.9	197.52	5.095		
21,200.0	8,970.9	22,268.7	9,792.4	96.6	96.6	-145.16	-12,082.4	-312.7	1,006.4	808.6	197.75	5.089		
21,280.0	8,971.0	22,348.7	9,792.4	97.2	97.2	-145.16	-12,162.4	-313.4	1,006.4	807.4	198.97	5.058		
21,300.0	8,971.0	22,368.7	9,792.4	97.3	97.4	-145.16	-12,182.4	-313.5	1,006.4	807.1	199.27	5.050		
21,375.0	8,971.0	22,443.7	9,792.4	97.9	98.0	-145.16	-12,257.4	-314.1	1,006.4	806.0	200.42	5.021		
21,400.0	8,971.0	22,468.7	9,792.5	98.1	98.1	-145.16	-12,282.4	-314.3	1,006.4	805.6	200.80	5.012		
21,470.0	8,971.1	22,538.7	9,792.5	98.6	98.7	-145.16	-12,352.4	-314.9	1,006.4	804.5	201.87	4.985		
21,500.0	8,971.1	22,568.7	9,792.5	98.8	98.9	-145.16	-12,382.4	-315.2	1,006.4	804.0	202.33	4.974		
21,565.0	8,971.2	22,633.7	9,792.5	99.3	99.4	-145.16	-12,447.4	-315.7	1,006.3	803.0	203.32	4.950		
21,600.0	8,971.2	22,668.7	9,792.6	99.5	99.7	-145.16	-12,482.4	-316.0	1,006.3	802.5	203.85	4.937		
21,660.0	8,971.2	22,728.7	9,792.6	100.0	100.1	-145.16	-12,542.4	-316.5	1,006.3	801.6	204.77	4.915		
21,700.0	8,971.2	22,768.7	9,792.6	100.3	100.4	-145.16	-12,582.4	-316.8	1,006.3	801.0	205.38	4.900		
21,755.0	8,971.3	22,823.7	9,792.6	100.7	100.8	-145.16	-12,637.4	-317.3	1,006.3	800.1	206.22	4.880		
21,800.0	8,971.3	22,868.7	9,792.7	101.0	101.2	-145.16	-12,682.4	-317.7	1,006.3	799.4	206.91	4.864		
21,850.0	8,971.3	22,918.7	9,792.7	101.4	101.5	-145.16	-12,732.4	-318.1	1,006.3	798.6	207.67	4.846		
21,900.0	8,971.4	22,968.7	9,792.7	101.8	101.9	-145.16	-12,782.4	-318.5	1,006.3	797.9	208.43	4.828		
21,945.0	8,971.4	23,013.7	9,792.7	102.1	102.3	-145.16	-12,827.4	-318.9	1,006.3	797.2	209.12	4.812		
22,000.0	8,971.4	23,068.7	9,792.8	102.5	102.7	-145.16	-12,882.4	-319.3	1,006.3	796.3	209.96	4.793		
22,040.0	8,971.5	23,108.7	9,792.8	102.8	103.0	-145.16	-12,922.4	-319.6	1,006.3	795.7	210.57	4.779		
22,100.0	8,971.5	23,168.7	9,792.8	103.3	103.4	-145.16	-12,982.4	-320.1	1,006.3	794.8	211.49	4.758		
22,135.0	8,971.5	23,203.7	9,792.8	103.5	103.7	-145.16	-13,017.4	-320.4	1,006.3	794.3	212.02	4.746		
22,200.0	8,971.6	23,268.7	9,792.9	104.0	104.2	-145.16	-13,082.4	-321.0	1,006.3	793.3	213.02	4.724		
22,230.0	8,971.6	23,298.7	9,792.9	104.2	104.4	-145.16	-13,112.4	-321.2	1,006.3	792.8	213.48	4.714		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 Toolface	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
22,300.0	8,971.6	23,368.7	9,792.9	104.8	105.0	-145.16	-13,182.4	-321.8	1,006.3	791.7	214.55	4.690	
22,325.0	8,971.7	23,393.7	9,792.9	104.9	105.1	-145.16	-13,207.4	-322.0	1,006.3	791.3	214.93	4.682	
22,400.0	8,971.7	23,468.7	9,793.0	105.5	105.7	-145.16	-13,282.4	-322.6	1,006.2	790.2	216.08	4.657	
22,420.0	8,971.7	23,488.7	9,793.0	105.7	105.9	-145.16	-13,302.4	-322.8	1,006.2	789.9	216.38	4.650	
22,500.0	8,971.8	23,568.7	9,793.0	106.3	106.5	-145.16	-13,382.4	-323.5	1,006.2	788.6	217.61	4.624	
22,515.0	8,971.8	23,583.7	9,793.0	106.4	106.6	-145.16	-13,397.4	-323.6	1,006.2	788.4	217.84	4.619	
22,600.0	8,971.8	23,668.7	9,793.1	107.0	107.2	-145.16	-13,482.4	-324.3	1,006.2	787.1	219.14	4.592	
22,610.0	8,971.9	23,678.7	9,793.1	107.1	107.3	-145.16	-13,492.4	-324.4	1,006.2	786.9	219.29	4.589	
22,700.0	8,971.9	23,768.7	9,793.1	107.7	108.0	-145.16	-13,582.4	-325.1	1,006.2	785.5	220.67	4.560	
22,705.0	8,971.9	23,773.7	9,793.1	107.8	108.0	-145.16	-13,587.4	-325.1	1,006.2	785.5	220.74	4.558	
22,800.0	8,972.0	23,868.7	9,793.2	108.5	108.7	-145.16	-13,682.4	-325.9	1,006.2	784.0	222.20	4.528	
22,895.0	8,972.0	23,963.7	9,793.2	109.2	109.5	-145.16	-13,777.4	-326.7	1,006.2	782.5	223.65	4.499	
22,900.0	8,972.0	23,968.7	9,793.2	109.2	109.5	-145.16	-13,782.4	-326.8	1,006.2	782.5	223.73	4.497	
22,990.0	8,972.1	24,058.7	9,793.3	109.9	110.2	-145.16	-13,872.4	-327.5	1,006.2	781.1	225.11	4.470	
23,000.0	8,972.1	24,068.7	9,793.3	110.0	110.3	-145.16	-13,882.4	-327.6	1,006.2	780.9	225.26	4.467	
23,085.0	8,972.2	24,153.7	9,793.3	110.6	110.9	-145.16	-13,967.4	-328.3	1,006.2	779.6	226.56	4.441	
23,100.0	8,972.2	24,168.7	9,793.3	110.7	111.0	-145.16	-13,982.4	-328.4	1,006.2	779.4	226.79	4.436	
23,180.0	8,972.2	24,248.7	9,793.4	111.3	111.6	-145.16	-14,062.3	-329.1	1,006.1	778.1	228.02	4.413	
23,200.0	8,972.2	24,268.7	9,793.4	111.5	111.8	-145.16	-14,082.3	-329.2	1,006.1	777.8	228.32	4.407	
23,275.0	8,972.3	24,343.7	9,793.4	112.0	112.3	-145.16	-14,157.3	-329.9	1,006.1	776.7	229.47	4.385	
23,300.0	8,972.3	24,368.7	9,793.5	112.2	112.5	-145.16	-14,182.3	-330.1	1,006.1	776.3	229.86	4.377	
23,370.0	8,972.4	24,438.7	9,793.5	112.8	113.1	-145.16	-14,252.3	-330.7	1,006.1	775.2	230.93	4.357	
23,400.0	8,972.4	24,468.7	9,793.5	113.0	113.3	-145.16	-14,282.3	-330.9	1,006.1	774.7	231.39	4.348	
23,465.0	8,972.4	24,533.7	9,793.5	113.5	113.8	-145.15	-14,347.3	-331.4	1,006.1	773.7	232.38	4.330	
23,500.0	8,972.4	24,568.7	9,793.6	113.7	114.0	-145.15	-14,382.3	-331.7	1,006.1	773.2	232.92	4.320	
23,560.0	8,972.5	24,628.7	9,793.6	114.2	114.5	-145.15	-14,442.3	-332.2	1,006.1	772.3	233.84	4.303	
23,600.0	8,972.5	24,668.7	9,793.6	114.5	114.8	-145.15	-14,482.3	-332.6	1,006.1	771.6	234.45	4.291	
23,655.0	8,972.6	24,723.7	9,793.6	114.9	115.2	-145.15	-14,537.3	-333.0	1,006.1	770.8	235.30	4.276	
23,700.0	8,972.6	24,768.7	9,793.7	115.2	115.6	-145.15	-14,582.3	-333.4	1,006.1	770.1	235.99	4.263	
23,750.0	8,972.6	24,818.7	9,793.7	115.6	115.9	-145.15	-14,632.3	-333.8	1,006.1	769.3	236.75	4.249	
23,800.0	8,972.6	24,868.7	9,793.7	116.0	116.3	-145.15	-14,682.3	-334.2	1,006.1	768.5	237.52	4.236	
23,845.0	8,972.7	24,913.7	9,793.7	116.3	116.7	-145.15	-14,727.3	-334.6	1,006.1	767.9	238.21	4.223	
23,900.0	8,972.7	24,968.7	9,793.8	116.7	117.1	-145.15	-14,782.3	-335.0	1,006.1	767.0	239.06	4.208	
23,940.0	8,972.7	25,008.7	9,793.8	117.0	117.4	-145.15	-14,822.3	-335.4	1,006.1	766.4	239.67	4.198	
24,000.0	8,972.8	25,068.7	9,793.8	117.5	117.8	-145.15	-14,882.3	-335.9	1,006.0	765.5	240.59	4.182	
24,035.0	8,972.8	25,103.7	9,793.8	117.7	118.1	-145.15	-14,917.3	-336.2	1,006.0	764.9	241.13	4.172	
24,100.0	8,972.9	25,168.7	9,793.9	118.2	118.6	-145.15	-14,982.3	-336.7	1,006.0	763.9	242.12	4.155	
24,130.0	8,972.9	25,198.7	9,793.9	118.4	118.8	-145.15	-15,012.3	-336.9	1,006.0	763.4	242.58	4.147	
24,193.6	8,972.9	25,262.3	9,793.9	118.9	119.3	-145.15	-15,075.9	-337.5	1,006.0	762.5	243.56	4.130	
24,200.0	8,972.9	25,268.7	9,793.9	119.0	119.3	-145.15	-15,082.3	-337.5	1,006.0	762.4	243.66	4.129	
24,225.0	8,972.9	25,293.7	9,793.9	119.2	119.5	-145.15	-15,107.3	-337.7	1,006.0	762.0	244.04	4.122	
24,300.0	8,973.0	25,368.7	9,794.0	119.7	120.1	-145.15	-15,182.3	-338.3	1,006.0	760.8	245.19	4.103	
24,320.0	8,973.0	25,388.7	9,794.0	119.9	120.3	-145.15	-15,202.3	-338.5	1,006.0	760.5	245.50	4.098	
24,323.6	8,973.0	25,392.3	9,794.0	119.9	120.3	-145.15	-15,205.9	-338.5	1,006.0	760.5	245.56	4.097 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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	-12.20	149.4	-32.3	152.9					
95.0	95.0	90.4	90.4	3.0	3.0	-12.20	149.4	-32.3	152.9	146.8	6.03	25.329		
100.0	100.0	95.4	95.4	3.0	3.0	-12.20	149.4	-32.3	152.9	146.8	6.04	25.309		
190.0	190.0	185.4	185.4	3.1	3.1	-12.20	149.4	-32.3	152.9	146.6	6.25	24.455		
200.0	200.0	195.4	195.4	3.1	3.1	-12.20	149.4	-32.3	152.9	146.6	6.28	24.321		
285.0	285.0	280.4	280.4	3.3	3.2	-12.20	149.4	-32.3	152.9	146.4	6.49	23.536		
300.0	300.0	295.4	295.4	3.3	3.3	-12.20	149.4	-32.3	152.9	146.3	6.54	23.386		
380.0	380.0	375.4	375.4	3.4	3.4	-12.20	149.4	-32.3	152.9	146.1	6.73	22.708		
400.0	400.0	395.4	395.4	3.4	3.4	-12.20	149.4	-32.3	152.9	146.1	6.78	22.533		
475.0	475.0	470.4	470.4	3.5	3.5	-12.20	149.4	-32.3	152.9	145.9	6.97	21.944		
500.0	500.0	495.4	495.4	3.5	3.5	-12.20	149.4	-32.3	152.9	145.8	7.03	21.746		
570.0	570.0	565.4	565.4	3.6	3.6	-12.20	149.4	-32.3	152.9	145.7	7.20	21.236		
600.0	600.0	595.4	595.4	3.6	3.6	-12.20	149.4	-32.3	152.9	145.6	7.27	21.017		
665.0	665.0	660.4	660.4	3.7	3.7	-12.20	149.4	-32.3	152.9	145.4	7.43	20.576		
700.0	700.0	695.4	695.4	3.8	3.8	-12.20	149.4	-32.3	152.9	145.3	7.52	20.339		
760.0	760.0	755.4	755.4	3.8	3.8	-12.20	149.4	-32.3	152.9	145.2	7.66	19.959		
800.0	800.0	795.4	795.4	3.9	3.9	-12.20	149.4	-32.3	152.9	145.1	7.76	19.708		
855.0	855.0	850.4	850.4	4.0	3.9	-12.20	149.4	-32.3	152.9	145.0	7.89	19.382		
900.0	900.0	895.4	895.4	4.0	4.0	-12.20	149.4	-32.3	152.9	144.9	8.00	19.118		
950.0	950.0	945.4	945.4	4.1	4.1	-12.20	149.4	-32.3	152.9	144.7	8.11	18.839		
1,000.0	1,000.0	995.4	995.4	4.1	4.1	-12.20	149.4	-32.3	152.9	144.6	8.23	18.564		
1,045.0	1,045.0	1,040.4	1,040.4	4.2	4.2	-12.20	149.4	-32.3	152.9	144.5	8.34	18.328		
1,100.0	1,100.0	1,095.4	1,095.4	4.2	4.2	-12.20	149.4	-32.3	152.9	144.4	8.47	18.044		
1,140.0	1,140.0	1,135.4	1,135.4	4.3	4.3	-12.20	149.4	-32.3	152.9	144.3	8.56	17.846		
1,200.0	1,200.0	1,195.4	1,195.4	4.4	4.4	-12.20	149.4	-32.3	152.9	144.1	8.71	17.555		
1,235.0	1,235.0	1,230.4	1,230.4	4.4	4.4	-12.20	149.4	-32.3	152.9	144.1	8.79	17.391		
1,300.0	1,300.0	1,295.4	1,295.4	4.5	4.5	-12.20	149.4	-32.3	152.9	143.9	8.94	17.092		
1,330.0	1,330.0	1,325.4	1,325.4	4.5	4.5	-12.20	149.4	-32.3	152.9	143.8	9.01	16.960		
1,400.0	1,400.0	1,395.4	1,395.4	4.6	4.6	-12.20	149.4	-32.3	152.9	143.7	9.18	16.656		
1,425.0	1,425.0	1,420.4	1,420.4	4.6	4.6	-12.20	149.4	-32.3	152.9	143.6	9.24	16.551		
1,500.0	1,500.0	1,495.4	1,495.4	4.7	4.7	-12.20	149.4	-32.3	152.9	143.4	9.41	16.242		
1,520.0	1,520.0	1,514.9	1,514.9	4.7	4.7	56.19	149.4	-32.3	152.8	143.4	9.46	16.161		
1,600.0	1,600.0	1,592.6	1,592.6	4.8	4.8	56.25	150.0	-33.7	152.8	143.1	9.66	15.808		
1,615.0	1,615.0	1,607.2	1,607.1	4.9	4.9	56.26	150.2	-34.2	152.7	143.0	9.71	15.724		
1,700.0	1,699.8	1,689.7	1,689.5	5.0	5.0	56.36	151.8	-38.1	152.6	142.6	10.03	15.226		
1,710.0	1,709.8	1,700.0	1,699.8	5.1	5.0	56.37	152.1	-38.7	152.6	142.6	10.06	15.165		
1,800.0	1,799.5	1,786.7	1,786.3	5.3	5.3	56.51	154.9	-45.5	152.5	142.1	10.40	14.672		
1,805.0	1,804.4	1,791.6	1,791.1	5.3	5.3	56.52	155.1	-46.0	152.5	142.1	10.41	14.645		
1,900.0	1,898.7	1,883.8	1,882.7	5.6	5.5	56.70	159.2	-56.0	152.4	141.6	10.77	14.145		
1,995.0	1,992.5	1,976.1	1,973.9	5.9	5.8	56.93	164.5	-68.8	152.2	141.1	11.14	13.662		
2,000.0	1,997.5	1,980.9	1,978.7	5.9	5.8	56.94	164.8	-69.5	152.2	141.1	11.16	13.637		
2,090.0	2,085.8	2,068.4	2,064.6	6.2	6.1	57.19	170.9	-84.2	152.1	140.6	11.53	13.194		
2,100.0	2,095.6	2,078.1	2,074.2	6.2	6.2	57.21	171.6	-86.0	152.1	140.5	11.57	13.146		
2,185.0	2,178.5	2,160.6	2,154.8	6.6	6.5	57.48	178.4	-102.4	151.9	140.0	11.93	12.737		
2,200.1	2,193.2	2,175.4	2,169.1	6.6	6.5	57.53	179.7	-105.5	151.9	139.9	11.99	12.666		
2,209.2	2,202.0	2,184.2	2,177.7	6.6	6.6	57.56	180.5	-107.4	151.9	139.9	12.03	12.626 CC		
2,280.0	2,270.7	2,254.5	2,245.9	6.9	6.8	57.63	187.0	-123.1	152.1	139.7	12.33	12.329		
2,300.0	2,290.1	2,274.5	2,265.3	6.9	6.8	57.64	188.8	-127.6	152.1	139.7	12.42	12.247		
2,375.0	2,362.9	2,349.5	2,338.1	7.2	7.1	57.70	195.7	-144.4	152.4	139.6	12.76	11.937		
2,400.0	2,387.1	2,374.5	2,362.4	7.2	7.2	57.72	198.1	-149.9	152.4	139.5	12.88	11.836		
2,470.0	2,455.0	2,444.5	2,430.3	7.5	7.4	57.77	204.5	-165.6	152.6	139.4	13.21	11.555		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
2,500.0	2,484.1	2,474.5	2,459.4	7.6	7.5	57.79	207.3	-172.3	152.7	139.4	13.35	11.437
2,565.0	2,547.2	2,539.5	2,522.5	7.8	7.7	57.84	213.3	-186.8	152.9	139.2	13.67	11.183
2,600.0	2,581.2	2,574.5	2,556.4	8.0	7.9	57.86	216.5	-194.7	153.0	139.2	13.85	11.050
2,660.0	2,639.4	2,634.5	2,614.7	8.2	8.1	57.91	222.1	-208.1	153.2	139.0	14.15	10.824
2,700.0	2,678.2	2,674.5	2,653.5	8.3	8.2	57.94	225.8	-217.0	153.3	139.0	14.36	10.678
2,755.0	2,731.6	2,729.5	2,706.8	8.5	8.4	57.98	230.9	-229.3	153.5	138.8	14.65	10.479
2,800.0	2,775.2	2,774.5	2,750.5	8.7	8.6	58.01	235.0	-239.4	153.6	138.7	14.88	10.321
2,850.0	2,823.7	2,824.5	2,799.0	8.9	8.8	58.05	239.7	-250.5	153.8	138.6	15.15	10.149
2,900.0	2,872.3	2,874.5	2,847.5	9.1	9.0	58.09	244.3	-261.7	153.9	138.5	15.42	9.981
2,945.0	2,915.9	2,919.5	2,891.2	9.3	9.2	58.12	248.4	-271.8	154.0	138.4	15.67	9.833
3,000.0	2,969.3	2,974.5	2,944.6	9.5	9.4	58.16	253.5	-284.1	154.2	138.2	15.97	9.657
3,040.0	3,008.1	3,014.5	2,983.4	9.7	9.6	58.19	257.2	-293.0	154.3	138.1	16.19	9.531
3,100.0	3,066.3	3,074.5	3,041.6	9.9	9.8	58.23	262.8	-306.4	154.5	138.0	16.53	9.348
3,135.0	3,100.3	3,109.5	3,075.5	10.1	10.0	58.26	266.0	-314.2	154.6	137.9	16.73	9.244
3,200.0	3,163.3	3,174.5	3,138.6	10.4	10.2	58.30	272.0	-328.8	154.8	137.7	17.10	9.055
3,230.0	3,192.4	3,204.5	3,167.7	10.5	10.4	58.33	274.8	-335.5	154.9	137.6	17.27	8.970
3,300.0	3,260.4	3,274.5	3,235.6	10.8	10.7	58.38	281.3	-351.1	155.1	137.4	17.67	8.777
3,325.0	3,284.6	3,299.5	3,259.9	10.9	10.8	58.39	283.6	-356.7	155.2	137.4	17.82	8.710
3,400.0	3,357.4	3,374.5	3,332.7	11.2	11.1	58.45	290.5	-373.5	155.4	137.1	18.25	8.514
3,420.0	3,376.8	3,394.5	3,352.1	11.3	11.2	58.46	292.3	-378.0	155.5	137.1	18.37	8.463
3,500.0	3,454.4	3,474.5	3,429.7	11.6	11.5	58.52	299.7	-395.8	155.7	136.9	18.84	8.264
3,515.0	3,469.0	3,489.5	3,444.3	11.7	11.6	58.53	301.1	-399.2	155.7	136.8	18.93	8.227
3,600.0	3,551.5	3,574.5	3,526.7	12.1	12.0	58.59	309.0	-418.2	156.0	136.6	19.44	8.027
3,610.0	3,561.2	3,584.5	3,536.4	12.1	12.0	58.60	309.9	-420.4	156.0	136.5	19.50	8.003
3,700.0	3,648.5	3,674.5	3,623.8	12.5	12.4	58.66	318.2	-440.5	156.3	136.3	20.03	7.801
3,705.0	3,653.3	3,679.5	3,628.6	12.6	12.4	58.67	318.7	-441.7	156.3	136.3	20.06	7.791
3,800.0	3,745.5	3,774.5	3,720.8	13.0	12.9	58.73	327.5	-462.9	156.6	136.0	20.64	7.588
3,895.0	3,837.7	3,869.5	3,813.0	13.4	13.3	58.80	336.3	-484.1	156.9	135.7	21.21	7.395
3,900.0	3,842.5	3,874.5	3,817.8	13.4	13.3	58.80	336.7	-485.2	156.9	135.7	21.25	7.385
3,990.0	3,929.9	3,964.5	3,905.1	13.8	13.7	58.87	345.0	-505.4	157.2	135.4	21.79	7.211
4,000.0	3,939.6	3,974.5	3,914.8	13.9	13.8	58.87	346.0	-507.6	157.2	135.3	21.86	7.193
4,085.0	4,022.0	4,059.5	3,997.3	14.3	14.2	58.93	353.8	-526.6	157.5	135.1	22.38	7.036
4,100.0	4,036.6	4,074.5	4,011.9	14.3	14.2	58.94	355.2	-530.0	157.5	135.0	22.47	7.009
4,180.0	4,114.2	4,154.5	4,089.5	14.7	14.6	59.00	362.6	-547.8	157.7	134.8	22.96	6.869
4,200.0	4,133.6	4,174.5	4,108.9	14.8	14.7	59.01	364.4	-552.3	157.8	134.7	23.09	6.835
4,275.0	4,206.4	4,249.5	4,181.7	15.1	15.0	59.07	371.4	-569.1	158.0	134.5	23.55	6.710
4,300.0	4,230.7	4,274.5	4,205.9	15.3	15.1	59.08	373.7	-574.7	158.1	134.4	23.71	6.669
4,370.0	4,298.6	4,344.5	4,273.9	15.6	15.5	59.13	380.2	-590.3	158.3	134.2	24.14	6.558
4,400.0	4,327.7	4,374.5	4,303.0	15.7	15.6	59.15	382.9	-597.0	158.4	134.1	24.33	6.512
4,465.0	4,390.7	4,439.5	4,366.0	16.0	15.9	59.20	388.9	-611.5	158.6	133.9	24.73	6.413
4,500.0	4,424.7	4,474.5	4,400.0	16.2	16.1	59.22	392.2	-619.4	158.7	133.8	24.95	6.361
4,560.0	4,482.9	4,534.5	4,458.2	16.5	16.3	59.26	397.7	-632.8	158.9	133.6	25.32	6.274
4,600.0	4,521.7	4,574.5	4,497.0	16.6	16.5	59.29	401.4	-641.7	159.0	133.4	25.57	6.217
4,634.9	4,555.6	4,609.4	4,530.9	16.8	16.7	59.32	404.7	-649.5	159.1	133.3	25.78	6.172
4,655.0	4,575.1	4,629.5	4,550.4	16.9	16.8	59.32	406.5	-654.0	159.2	133.3	25.90	6.146 ES
4,700.0	4,618.9	4,674.5	4,594.1	17.1	17.0	59.25	410.7	-664.1	159.5	133.3	26.19	6.089
4,750.0	4,667.6	4,724.5	4,642.6	17.3	17.2	59.05	415.3	-675.3	160.1	133.5	26.56	6.027
4,800.0	4,716.3	4,774.5	4,691.1	17.6	17.5	58.71	419.9	-686.4	160.8	133.9	26.95	5.968
4,845.0	4,760.3	4,819.4	4,734.7	17.8	17.7	58.31	424.1	-696.5	161.7	134.4	27.33	5.918
4,900.0	4,814.2	4,874.4	4,788.0	18.0	17.9	57.67	429.2	-708.8	163.1	135.3	27.83	5.861
4,940.0	4,853.5	4,914.3	4,826.8	18.2	18.1	57.13	432.8	-717.7	164.3	136.1	28.22	5.823

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
5,000.0	4,912.4	4,974.2	4,884.9	18.5	18.4	56.17	438.4	-731.1	166.4	137.6	28.84	5.770
5,035.0	4,946.9	5,009.2	4,918.8	18.6	18.6	55.55	441.6	-738.9	167.8	138.6	29.22	5.743
5,100.0	5,010.9	5,074.0	4,981.7	18.9	18.9	54.26	447.6	-753.4	170.8	140.9	29.97	5.699
5,130.0	5,040.6	5,103.9	5,010.7	19.0	19.0	53.62	450.4	-760.1	172.4	142.1	30.34	5.683
5,200.0	5,109.8	5,173.6	5,078.3	19.3	19.3	52.02	456.8	-775.6	176.5	145.3	31.23	5.652
5,225.0	5,134.5	5,198.4	5,102.4	19.4	19.5	51.41	459.1	-781.2	178.1	146.6	31.56	5.645
5,300.0	5,208.8	5,273.0	5,174.8	19.8	19.8	49.51	466.0	-797.9	183.6	151.0	32.58	5.635
5,320.0	5,228.7	5,292.9	5,194.1	19.8	19.9	48.99	467.8	-802.3	185.2	152.3	32.86	5.635
5,400.0	5,308.1	5,372.2	5,271.1	20.2	20.3	46.84	475.2	-820.0	192.2	158.2	34.01	5.651
5,415.0	5,323.0	5,387.1	5,285.5	20.2	20.4	46.42	476.5	-823.4	193.6	159.4	34.23	5.657
5,500.0	5,407.6	5,471.2	5,367.1	20.6	20.8	44.06	484.3	-842.2	202.4	166.9	35.48	5.705
5,510.0	5,417.5	5,481.1	5,376.7	20.6	20.8	43.78	485.2	-844.4	203.5	167.9	35.63	5.713
5,600.0	5,507.2	5,569.9	5,462.9	20.9	21.2	41.27	493.4	-864.2	214.4	177.5	36.96	5.801
5,605.0	5,512.2	5,574.9	5,467.7	21.0	21.2	41.13	493.9	-865.3	215.1	178.0	37.04	5.807
5,700.0	5,607.0	5,668.4	5,558.4	21.3	21.7	38.52	502.5	-886.2	228.3	189.8	38.43	5.940
5,795.0	5,701.9	5,761.6	5,648.9	21.6	22.1	36.00	511.2	-907.1	243.1	203.4	39.78	6.112
5,800.0	5,706.9	5,766.5	5,653.6	21.6	22.2	35.87	511.6	-908.2	244.0	204.1	39.85	6.122
5,890.0	5,796.8	5,854.5	5,739.0	21.9	22.6	33.60	519.8	-927.9	259.8	218.7	41.07	6.325
5,900.0	5,806.8	5,864.2	5,748.5	21.9	22.6	33.35	520.7	-930.0	261.6	220.4	41.20	6.349
5,985.0	5,891.8	5,947.0	5,828.8	22.2	23.0	31.33	528.3	-948.5	278.1	235.9	42.28	6.579
6,000.0	5,906.8	5,961.6	5,843.0	22.2	23.1	30.98	529.7	-951.8	281.2	238.7	42.46	6.622
6,035.2	5,942.0	5,995.8	5,876.1	22.2	23.3	-38.19	532.8	-959.4	288.6	245.7	42.85	6.734
6,080.0	5,986.8	6,039.3	5,918.3	22.2	23.5	-39.21	536.8	-969.2	298.1	254.8	43.29	6.886
6,100.0	6,006.8	6,058.7	5,937.1	22.2	23.6	-39.64	538.6	-973.5	302.4	258.9	43.49	6.954
6,175.0	6,081.8	6,131.4	6,007.7	22.3	23.9	-41.15	545.4	-989.8	318.7	274.5	44.19	7.211
6,200.0	6,106.8	6,155.7	6,031.3	22.3	24.0	-41.63	547.6	-995.2	324.1	279.7	44.41	7.298
6,270.0	6,176.8	6,224.3	6,097.8	22.3	24.4	-42.88	553.9	-1,010.5	339.5	294.5	45.02	7.542
6,300.0	6,206.8	6,257.0	6,129.7	22.3	24.5	-43.42	556.9	-1,017.6	345.9	300.7	45.29	7.639
6,365.0	6,271.8	6,328.6	6,199.5	22.3	24.9	-44.45	562.8	-1,031.9	358.9	313.1	45.83	7.831
6,400.0	6,306.8	6,367.4	6,237.6	22.4	25.0	-44.93	565.7	-1,039.0	365.3	319.2	46.10	7.924
6,460.0	6,366.8	6,434.5	6,303.6	22.4	25.4	-45.65	570.3	-1,050.1	375.3	328.8	46.52	8.067
6,500.0	6,406.8	6,479.5	6,348.0	22.4	25.6	-46.06	573.1	-1,056.8	381.3	334.5	46.77	8.151
6,555.0	6,461.8	6,541.8	6,409.6	22.4	25.8	-46.54	576.5	-1,065.0	388.5	341.5	47.08	8.253
6,600.0	6,506.8	6,593.0	6,460.4	22.4	26.1	-46.86	578.9	-1,070.8	393.7	346.4	47.30	8.323
6,650.0	6,556.8	6,650.1	6,517.3	22.5	26.3	-47.16	581.1	-1,076.2	398.5	351.0	47.51	8.388
6,700.0	6,606.8	6,707.5	6,574.4	22.5	26.5	-47.40	582.9	-1,080.6	402.4	354.7	47.69	8.439
6,745.0	6,651.8	6,759.2	6,626.1	22.5	26.7	-47.57	584.2	-1,083.7	405.2	357.4	47.81	8.474
6,800.0	6,706.8	6,822.6	6,689.4	22.5	26.9	-47.70	585.3	-1,086.3	407.5	359.5	47.92	8.504
6,840.0	6,746.8	6,868.8	6,735.6	22.5	27.1	-47.76	585.7	-1,087.4	408.4	360.5	47.95	8.517
6,900.0	6,806.8	6,935.4	6,802.2	22.6	27.2	-47.78	585.9	-1,087.8	408.8	360.8	47.95	8.524
6,935.0	6,841.8	6,970.4	6,837.2	22.6	27.2	-47.78	585.9	-1,087.8	408.8	360.8	47.98	8.520
7,000.0	6,906.8	7,035.4	6,902.2	22.6	27.2	-47.78	585.9	-1,087.8	408.8	360.7	48.03	8.511
7,030.0	6,936.8	7,065.4	6,932.2	22.6	27.2	-47.78	585.9	-1,087.8	408.8	360.7	48.05	8.507
7,100.0	7,006.8	7,135.4	7,002.2	22.6	27.2	-47.78	585.9	-1,087.8	408.8	360.7	48.10	8.498
7,125.0	7,031.8	7,160.4	7,027.2	22.6	27.2	-47.78	585.9	-1,087.8	408.8	360.6	48.12	8.494
7,200.0	7,106.8	7,235.4	7,102.2	22.7	27.3	-47.78	585.9	-1,087.8	408.8	360.6	48.18	8.484
7,220.0	7,126.8	7,255.4	7,122.2	22.7	27.3	-47.78	585.9	-1,087.8	408.8	360.6	48.20	8.481
7,300.0	7,206.8	7,335.4	7,202.2	22.7	27.3	-47.78	585.9	-1,087.8	408.8	360.5	48.26	8.470
7,315.0	7,221.8	7,350.4	7,217.2	22.7	27.3	-47.78	585.9	-1,087.8	408.8	360.5	48.27	8.468
7,400.0	7,306.8	7,435.4	7,302.2	22.8	27.3	-47.78	585.9	-1,087.8	408.8	360.4	48.34	8.457
7,410.0	7,316.8	7,445.4	7,312.2	22.8	27.3	-47.78	585.9	-1,087.8	408.8	360.4	48.34	8.455

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
7,500.0	7,406.8	7,535.4	7,402.2	22.8	27.4	-47.78	585.9	-1,087.8	408.8	360.3	48.42	8.443
7,505.0	7,411.8	7,540.4	7,407.2	22.8	27.4	-47.78	585.9	-1,087.8	408.8	360.3	48.42	8.442
7,600.0	7,506.8	7,635.4	7,502.2	22.8	27.4	-47.78	585.9	-1,087.8	408.8	360.3	48.50	8.429
7,695.0	7,601.8	7,730.4	7,597.2	22.9	27.4	-47.78	585.9	-1,087.8	408.8	360.2	48.57	8.416
7,700.0	7,606.8	7,735.4	7,602.2	22.9	27.4	-47.78	585.9	-1,087.8	408.8	360.2	48.57	8.415
7,790.0	7,696.8	7,825.4	7,692.2	22.9	27.5	-47.78	585.9	-1,087.8	408.8	360.1	48.65	8.403
7,800.0	7,706.8	7,835.4	7,702.2	22.9	27.5	-47.78	585.9	-1,087.8	408.8	360.1	48.65	8.401
7,885.0	7,791.8	7,920.4	7,787.2	23.0	27.5	-47.78	585.9	-1,087.8	408.8	360.0	48.72	8.390
7,900.0	7,806.8	7,935.4	7,802.2	23.0	27.5	-47.78	585.9	-1,087.8	408.8	360.0	48.74	8.387
7,980.0	7,886.8	8,015.4	7,882.2	23.0	27.5	-47.78	585.9	-1,087.8	408.8	360.0	48.80	8.376
8,000.0	7,906.8	8,035.4	7,902.2	23.0	27.5	-47.78	585.9	-1,087.8	408.8	359.9	48.82	8.374
8,075.0	7,981.8	8,110.4	7,977.2	23.0	27.6	-47.78	585.9	-1,087.8	408.8	359.9	48.88	8.363
8,100.0	8,006.8	8,135.4	8,002.2	23.0	27.6	-47.78	585.9	-1,087.8	408.8	359.9	48.90	8.360
8,170.0	8,076.8	8,205.4	8,072.2	23.1	27.6	-47.78	585.9	-1,087.8	408.8	359.8	48.95	8.350
8,200.0	8,106.8	8,235.4	8,102.2	23.1	27.6	-47.78	585.9	-1,087.8	408.8	359.8	48.98	8.346
8,265.0	8,171.8	8,300.4	8,167.2	23.1	27.6	-47.78	585.9	-1,087.8	408.8	359.7	49.03	8.337
8,300.0	8,206.8	8,335.4	8,202.2	23.1	27.6	-47.78	585.9	-1,087.8	408.8	359.7	49.06	8.332
8,360.0	8,266.8	8,395.4	8,262.2	23.2	27.7	-47.78	585.9	-1,087.8	408.8	359.7	49.11	8.323
8,400.0	8,306.8	8,435.4	8,302.2	23.2	27.7	-47.78	585.9	-1,087.8	408.8	359.6	49.14	8.318
8,455.0	8,361.8	8,490.4	8,357.2	23.2	27.7	-47.78	585.9	-1,087.8	408.8	359.6	49.18	8.311
8,483.2	8,390.0	8,518.7	8,385.4	23.2	27.7	-47.78	585.9	-1,087.8	408.8	359.6	49.20	8.308
8,500.0	8,406.8	8,535.4	8,402.2	23.2	27.7	131.76	585.9	-1,087.8	408.9	359.7	49.20	8.311
8,550.0	8,456.7	8,585.3	8,452.1	23.2	27.7	131.96	585.9	-1,087.8	411.4	362.2	49.18	8.364
8,600.0	8,506.0	8,634.6	8,501.4	23.2	27.7	132.37	585.9	-1,087.8	416.8	367.7	49.09	8.490
8,645.0	8,549.7	8,678.3	8,545.1	23.2	27.8	132.88	585.9	-1,087.8	424.2	375.3	48.94	8.669
8,650.0	8,554.5	8,683.1	8,549.9	23.2	27.8	132.94	585.9	-1,087.8	425.2	376.3	48.91	8.692
8,700.0	8,601.7	8,730.3	8,597.1	23.3	27.8	133.62	585.9	-1,087.8	436.8	388.1	48.67	8.975
8,740.0	8,638.3	8,766.9	8,633.7	23.3	27.8	134.17	585.9	-1,087.8	448.4	400.0	48.42	9.262
8,750.0	8,647.3	8,775.9	8,642.7	23.3	27.8	134.31	585.9	-1,087.8	451.7	403.3	48.35	9.342
8,800.0	8,690.9	8,819.5	8,686.3	23.3	27.8	134.94	585.9	-1,087.8	469.9	422.0	47.97	9.797
8,835.0	8,720.1	8,848.7	8,715.5	23.3	27.8	135.28	585.9	-1,087.8	484.8	437.1	47.67	10.170
8,850.0	8,732.3	8,860.9	8,727.7	23.3	27.8	135.40	585.9	-1,087.8	491.6	444.1	47.53	10.343
8,900.0	8,771.0	8,899.6	8,766.4	23.3	27.8	135.62	585.9	-1,087.8	516.8	469.7	47.06	10.981
8,930.0	8,792.9	8,921.5	8,788.3	23.4	27.8	135.59	585.9	-1,087.8	533.5	486.7	46.77	11.407
8,950.0	8,806.9	8,935.5	8,802.3	23.4	27.9	135.48	585.9	-1,087.8	545.3	498.7	46.57	11.709
9,000.0	8,839.5	8,968.2	8,834.9	23.4	27.9	134.89	585.9	-1,087.8	577.0	531.0	46.07	12.525
9,025.0	8,854.6	8,983.2	8,850.0	23.4	27.9	134.38	585.9	-1,087.8	594.0	548.2	45.82	12.965
9,050.0	8,868.8	8,997.4	8,864.2	23.4	27.9	133.69	585.9	-1,087.8	611.8	566.2	45.57	13.425
9,100.0	8,894.4	9,023.0	8,889.8	23.5	27.9	131.73	585.9	-1,087.8	649.4	604.3	45.09	14.402
9,120.0	8,903.6	9,032.2	8,899.0	23.5	27.9	130.68	585.9	-1,087.8	665.1	620.2	44.90	14.812
9,150.0	8,916.2	9,044.8	8,911.6	23.5	27.9	128.76	585.9	-1,087.8	689.4	644.8	44.63	15.448
9,200.0	8,933.9	9,062.6	8,929.3	23.6	27.9	124.43	585.9	-1,087.8	731.6	687.4	44.19	16.555
9,215.0	8,938.5	9,067.1	8,933.9	23.6	27.9	122.81	585.9	-1,087.8	744.6	700.6	44.07	16.898
9,250.0	8,947.6	9,076.2	8,943.0	23.6	27.9	118.32	585.9	-1,087.8	775.6	731.8	43.78	17.714
9,300.0	8,957.0	9,085.6	8,952.4	23.7	27.9	109.89	585.9	-1,087.8	820.9	777.5	43.40	18.915
9,310.0	8,958.3	9,086.9	8,953.7	23.7	27.9	107.89	585.9	-1,087.8	830.1	786.8	43.33	19.159
9,350.0	8,962.0	10,464.6	9,766.2	23.7	28.8	159.31	-225.4	-1,094.5	864.3	828.3	36.01	24.002
9,382.8	8,963.0	10,497.5	9,766.2	23.8	28.8	159.32	-258.2	-1,094.8	863.4	827.3	36.16	23.879
9,382.9	8,963.0	10,497.5	9,766.2	23.8	28.8	159.32	-258.2	-1,094.8	863.4	827.3	36.16	23.879
9,400.0	8,963.0	10,514.6	9,766.2	23.8	28.8	159.32	-275.4	-1,094.9	863.4	827.2	36.24	23.828
9,405.0	8,963.0	10,519.6	9,766.2	23.8	28.9	159.32	-280.4	-1,095.0	863.4	827.2	36.26	23.812

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,500.0	8,963.1	10,614.6	9,766.3	23.9	29.0	159.32	-375.4	-1,095.7	863.5	826.7	36.73	23.511		
9,595.0	8,963.1	10,709.6	9,766.3	24.1	29.2	159.32	-470.4	-1,096.5	863.5	826.2	37.25	23.182		
9,600.0	8,963.1	10,714.6	9,766.4	24.1	29.2	159.32	-475.4	-1,096.6	863.5	826.2	37.28	23.164		
9,690.0	8,963.2	10,804.6	9,766.4	24.3	29.4	159.32	-565.4	-1,097.3	863.5	825.6	37.82	22.831		
9,700.0	8,963.2	10,814.6	9,766.4	24.3	29.4	159.32	-575.4	-1,097.4	863.5	825.6	37.88	22.793		
9,785.0	8,963.3	10,899.6	9,766.5	24.5	29.6	159.32	-660.4	-1,098.1	863.5	825.0	38.44	22.462		
9,800.0	8,963.3	10,914.6	9,766.5	24.5	29.6	159.32	-675.4	-1,098.2	863.5	824.9	38.54	22.402		
9,880.0	8,963.3	10,994.6	9,766.6	24.7	29.8	159.32	-755.4	-1,098.9	863.5	824.4	39.11	22.077		
9,900.0	8,963.3	11,014.6	9,766.6	24.7	29.8	159.32	-775.4	-1,099.1	863.5	824.2	39.26	21.995		
9,975.0	8,963.4	11,089.6	9,766.6	24.9	30.0	159.32	-850.4	-1,099.7	863.5	823.6	39.83	21.681		
10,000.0	8,963.4	11,114.6	9,766.6	25.0	30.1	159.32	-875.4	-1,099.9	863.5	823.5	40.02	21.577		
10,070.0	8,963.5	11,184.6	9,766.7	25.1	30.3	159.32	-945.4	-1,100.5	863.5	822.9	40.58	21.277		
10,100.0	8,963.5	11,214.6	9,766.7	25.2	30.3	159.32	-975.4	-1,100.7	863.5	822.7	40.83	21.150		
10,165.0	8,963.5	11,279.6	9,766.8	25.4	30.5	159.32	-1,040.4	-1,101.2	863.5	822.1	41.38	20.868		
10,200.0	8,963.5	11,314.6	9,766.8	25.5	30.6	159.32	-1,075.4	-1,101.5	863.5	821.8	41.68	20.718		
10,260.0	8,963.6	11,374.6	9,766.8	25.7	30.8	159.32	-1,135.4	-1,102.0	863.5	821.3	42.21	20.456		
10,300.0	8,963.6	11,414.6	9,766.9	25.8	30.9	159.32	-1,175.4	-1,102.4	863.5	820.9	42.57	20.284		
10,355.0	8,963.7	11,469.6	9,766.9	26.0	31.1	159.32	-1,230.4	-1,102.8	863.5	820.4	43.08	20.043		
10,400.0	8,963.7	11,514.6	9,766.9	26.1	31.2	159.32	-1,275.4	-1,103.2	863.5	820.0	43.50	19.850		
10,450.0	8,963.7	11,564.6	9,767.0	26.3	31.4	159.32	-1,325.4	-1,103.6	863.5	819.5	43.98	19.632		
10,500.0	8,963.7	11,614.6	9,767.0	26.4	31.5	159.32	-1,375.4	-1,104.0	863.5	819.0	44.47	19.419		
10,545.0	8,963.8	11,659.6	9,767.0	26.6	31.7	159.32	-1,420.4	-1,104.4	863.5	818.6	44.92	19.225		
10,600.0	8,963.8	11,714.6	9,767.1	26.8	31.8	159.32	-1,475.3	-1,104.8	863.5	818.0	45.47	18.992		
10,640.0	8,963.8	11,754.6	9,767.1	26.9	32.0	159.32	-1,515.3	-1,105.2	863.5	817.6	45.88	18.821		
10,700.0	8,963.9	11,814.6	9,767.1	27.1	32.2	159.32	-1,575.3	-1,105.7	863.5	817.0	46.50	18.571		
10,735.0	8,963.9	11,849.6	9,767.2	27.3	32.3	159.32	-1,610.3	-1,106.0	863.5	816.6	46.87	18.424		
10,800.0	8,963.9	11,914.6	9,767.2	27.5	32.5	159.32	-1,675.3	-1,106.5	863.5	816.0	47.56	18.157		
10,830.0	8,964.0	11,944.6	9,767.2	27.6	32.7	159.32	-1,705.3	-1,106.7	863.5	815.6	47.89	18.033		
10,900.0	8,964.0	12,014.6	9,767.3	27.9	32.9	159.32	-1,775.3	-1,107.3	863.5	814.9	48.65	17.751		
10,925.0	8,964.0	12,039.6	9,767.3	28.0	33.0	159.32	-1,800.3	-1,107.5	863.5	814.6	48.93	17.650		
11,000.0	8,964.1	12,114.6	9,767.4	28.3	33.3	159.32	-1,875.3	-1,108.2	863.5	813.8	49.76	17.353		
11,020.0	8,964.1	12,134.6	9,767.4	28.4	33.4	159.32	-1,895.3	-1,108.3	863.5	813.5	49.99	17.275		
11,100.0	8,964.1	12,214.6	9,767.4	28.7	33.7	159.32	-1,975.3	-1,109.0	863.5	812.6	50.90	16.966		
11,115.0	8,964.2	12,229.6	9,767.4	28.8	33.8	159.32	-1,990.3	-1,109.1	863.5	812.5	51.07	16.908		
11,200.0	8,964.2	12,314.6	9,767.5	29.2	34.1	159.32	-2,075.3	-1,109.8	863.5	811.5	52.06	16.588		
11,210.0	8,964.2	12,324.6	9,767.5	29.2	34.1	159.32	-2,085.3	-1,109.9	863.5	811.4	52.18	16.550		
11,300.0	8,964.3	12,414.6	9,767.6	29.6	34.5	159.32	-2,175.3	-1,110.6	863.5	810.3	53.24	16.220		
11,305.0	8,964.3	12,419.6	9,767.6	29.6	34.5	159.32	-2,180.3	-1,110.7	863.5	810.2	53.30	16.202		
11,400.0	8,964.3	12,514.6	9,767.7	30.1	34.9	159.32	-2,275.3	-1,111.5	863.5	809.1	54.44	15.863		
11,495.0	8,964.4	12,609.6	9,767.7	30.5	35.4	159.32	-2,370.3	-1,112.2	863.6	808.0	55.60	15.533		
11,500.0	8,964.4	12,614.6	9,767.7	30.6	35.4	159.32	-2,375.3	-1,112.3	863.6	807.9	55.66	15.516		
11,590.0	8,964.5	12,704.6	9,767.8	31.0	35.8	159.32	-2,465.3	-1,113.0	863.6	806.8	56.77	15.212		
11,600.0	8,964.5	12,714.6	9,767.8	31.0	35.8	159.32	-2,475.3	-1,113.1	863.6	806.7	56.89	15.179		
11,685.0	8,964.5	12,799.6	9,767.9	31.5	36.2	159.32	-2,560.3	-1,113.8	863.6	805.6	57.95	14.901		
11,700.0	8,964.6	12,814.6	9,767.9	31.5	36.3	159.32	-2,575.3	-1,113.9	863.6	805.4	58.14	14.852		
11,780.0	8,964.6	12,894.6	9,767.9	31.9	36.7	159.32	-2,655.3	-1,114.6	863.6	804.4	59.16	14.598		
11,800.0	8,964.6	12,914.6	9,767.9	32.0	36.8	159.32	-2,675.3	-1,114.8	863.6	804.2	59.41	14.536		
11,875.0	8,964.7	12,989.6	9,768.0	32.4	37.1	159.32	-2,750.3	-1,115.4	863.6	803.2	60.37	14.305		
11,900.0	8,964.7	13,014.6	9,768.0	32.6	37.2	159.32	-2,775.3	-1,115.6	863.6	802.9	60.69	14.229		
11,970.0	8,964.7	13,084.6	9,768.1	32.9	37.6	159.32	-2,845.3	-1,116.2	863.6	802.0	61.59	14.020		
12,000.0	8,964.8	13,114.6	9,768.1	33.1	37.7	159.32	-2,875.3	-1,116.4	863.6	801.6	61.98	13.933		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference Offset				Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,065.0	8,964.8	13,179.6	9,768.1	33.4	38.1	159.32	-2,940.3	-1,117.0	863.6	800.8	62.83	13.745		
12,100.0	8,964.8	13,214.6	9,768.2	33.6	38.2	159.32	-2,975.3	-1,117.3	863.6	800.3	63.29	13.645		
12,160.0	8,964.9	13,274.6	9,768.2	34.0	38.5	159.32	-3,035.3	-1,117.7	863.6	799.5	64.08	13.477		
12,200.0	8,964.9	13,314.6	9,768.2	34.2	38.7	159.32	-3,075.3	-1,118.1	863.6	799.0	64.61	13.367		
12,255.0	8,964.9	13,369.6	9,768.3	34.5	39.0	159.32	-3,130.3	-1,118.5	863.6	798.3	65.34	13.218		
12,300.0	8,965.0	13,414.6	9,768.3	34.7	39.3	159.32	-3,175.3	-1,118.9	863.6	797.7	65.93	13.098		
12,350.0	8,965.0	13,464.6	9,768.3	35.0	39.5	159.32	-3,225.3	-1,119.3	863.6	797.0	66.60	12.966		
12,400.0	8,965.0	13,514.6	9,768.4	35.3	39.8	159.32	-3,275.3	-1,119.7	863.6	796.3	67.27	12.837		
12,445.0	8,965.0	13,559.6	9,768.4	35.5	40.0	159.32	-3,320.3	-1,120.1	863.6	795.7	67.88	12.723		
12,500.0	8,965.1	13,614.6	9,768.5	35.9	40.3	159.32	-3,375.3	-1,120.6	863.6	795.0	68.62	12.585		
12,540.0	8,965.1	13,654.6	9,768.5	36.1	40.5	159.32	-3,415.3	-1,120.9	863.6	794.4	69.16	12.487		
12,600.0	8,965.2	13,714.6	9,768.5	36.4	40.9	159.32	-3,475.3	-1,121.4	863.6	793.6	69.98	12.341		
12,635.0	8,965.2	13,749.6	9,768.5	36.6	41.0	159.32	-3,510.3	-1,121.7	863.6	793.2	70.45	12.258		
12,700.0	8,965.2	13,814.6	9,768.6	37.0	41.4	159.32	-3,575.3	-1,122.2	863.6	792.3	71.34	12.105		
12,730.0	8,965.2	13,844.6	9,768.6	37.2	41.6	159.32	-3,605.3	-1,122.5	863.6	791.9	71.75	12.036		
12,800.0	8,965.3	13,914.6	9,768.7	37.6	42.0	159.32	-3,675.3	-1,123.0	863.6	790.9	72.72	11.877		
12,825.0	8,965.3	13,939.6	9,768.7	37.8	42.1	159.32	-3,700.3	-1,123.2	863.6	790.6	73.06	11.821		
12,900.0	8,965.4	14,014.6	9,768.7	38.2	42.5	159.32	-3,775.3	-1,123.9	863.6	789.5	74.10	11.655		
12,920.0	8,965.4	14,034.6	9,768.8	38.3	42.6	159.32	-3,795.3	-1,124.0	863.6	789.3	74.37	11.612		
13,000.0	8,965.4	14,114.6	9,768.8	38.8	43.1	159.32	-3,875.3	-1,124.7	863.6	788.1	75.48	11.441		
13,015.0	8,965.4	14,129.6	9,768.8	38.9	43.2	159.32	-3,890.3	-1,124.8	863.6	787.9	75.69	11.410		
13,100.0	8,965.5	14,214.6	9,768.9	39.4	43.7	159.32	-3,975.3	-1,125.5	863.6	786.8	76.88	11.234		
13,110.0	8,965.5	14,224.6	9,768.9	39.5	43.7	159.32	-3,985.3	-1,125.6	863.6	786.6	77.02	11.213		
13,200.0	8,965.6	14,314.6	9,769.0	40.0	44.2	159.32	-4,075.3	-1,126.3	863.6	785.4	78.28	11.033		
13,205.0	8,965.6	14,319.6	9,769.0	40.1	44.3	159.32	-4,080.3	-1,126.4	863.6	785.3	78.35	11.023		
13,300.0	8,965.6	14,414.6	9,769.0	40.7	44.8	159.32	-4,175.3	-1,127.2	863.6	784.0	79.69	10.838		
13,395.0	8,965.7	14,509.6	9,769.1	41.3	45.4	159.32	-4,270.3	-1,128.0	863.6	782.6	81.03	10.658		
13,400.0	8,965.7	14,514.6	9,769.1	41.3	45.4	159.32	-4,275.3	-1,128.0	863.7	782.5	81.10	10.649		
13,490.0	8,965.7	14,604.6	9,769.2	41.9	45.9	159.32	-4,365.3	-1,128.7	863.7	781.3	82.38	10.484		
13,500.0	8,965.8	14,614.6	9,769.2	41.9	46.0	159.32	-4,375.2	-1,128.8	863.7	781.1	82.52	10.466		
13,585.0	8,965.8	14,699.6	9,769.2	42.5	46.5	159.32	-4,460.2	-1,129.5	863.7	779.9	83.73	10.315		
13,600.0	8,965.8	14,714.6	9,769.2	42.5	46.6	159.32	-4,475.2	-1,129.7	863.7	779.7	83.95	10.288		
13,680.0	8,965.9	14,794.6	9,769.3	43.1	47.1	159.32	-4,555.2	-1,130.3	863.7	778.6	85.09	10.150		
13,700.0	8,965.9	14,814.6	9,769.3	43.2	47.2	159.32	-4,575.2	-1,130.5	863.7	778.3	85.37	10.116		
13,775.0	8,965.9	14,889.6	9,769.4	43.7	47.7	159.32	-4,650.2	-1,131.1	863.7	777.2	86.45	9.990		
13,800.0	8,966.0	14,914.6	9,769.4	43.8	47.8	159.32	-4,675.2	-1,131.3	863.7	776.9	86.81	9.949		
13,870.0	8,966.0	14,984.6	9,769.4	44.3	48.3	159.32	-4,745.2	-1,131.9	863.7	775.9	87.81	9.835		
13,900.0	8,966.0	15,014.6	9,769.5	44.5	48.4	159.32	-4,775.2	-1,132.1	863.7	775.4	88.25	9.787		
13,965.0	8,966.1	15,079.6	9,769.5	44.9	48.8	159.32	-4,840.2	-1,132.7	863.7	774.5	89.18	9.684		
14,000.0	8,966.1	15,114.6	9,769.5	45.1	49.1	159.32	-4,875.2	-1,133.0	863.7	774.0	89.69	9.630		
14,060.0	8,966.1	15,174.6	9,769.6	45.5	49.4	159.32	-4,935.2	-1,133.5	863.7	773.1	90.56	9.538		
14,100.0	8,966.2	15,214.6	9,769.6	45.8	49.7	159.32	-4,975.2	-1,133.8	863.7	772.6	91.14	9.477		
14,155.0	8,966.2	15,269.6	9,769.6	46.1	50.0	159.32	-5,030.2	-1,134.2	863.7	771.8	91.93	9.395		
14,200.0	8,966.2	15,314.6	9,769.7	46.4	50.3	159.32	-5,075.2	-1,134.6	863.7	771.1	92.59	9.329		
14,250.0	8,966.3	15,364.6	9,769.7	46.8	50.6	159.32	-5,125.2	-1,135.0	863.7	770.4	93.31	9.256		
14,300.0	8,966.3	15,414.6	9,769.8	47.1	50.9	159.32	-5,175.2	-1,135.4	863.7	769.7	94.04	9.184		
14,345.0	8,966.3	15,459.6	9,769.8	47.4	51.2	159.32	-5,220.2	-1,135.8	863.7	769.0	94.70	9.121		
14,400.0	8,966.4	15,514.6	9,769.8	47.8	51.6	159.32	-5,275.2	-1,136.3	863.7	768.2	95.50	9.044		
14,440.0	8,966.4	15,554.6	9,769.9	48.0	51.8	159.32	-5,315.2	-1,136.6	863.7	767.6	96.08	8.989		
14,500.0	8,966.4	15,614.6	9,769.9	48.4	52.2	159.32	-5,375.2	-1,137.1	863.7	766.7	96.96	8.908		
14,535.0	8,966.4	15,649.6	9,769.9	48.7	52.4	159.32	-5,410.2	-1,137.4	863.7	766.2	97.47	8.861		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference Offset				Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,600.0	8,966.5	15,714.6	9,770.0	49.1	52.9	159.32	-5,475.2	-1,137.9	863.7	765.3	98.42	8.776		
14,630.0	8,966.5	15,744.6	9,770.0	49.3	53.1	159.32	-5,505.2	-1,138.2	863.7	764.9	98.86	8.737		
14,700.0	8,966.6	15,814.6	9,770.0	49.8	53.5	159.32	-5,575.2	-1,138.8	863.7	763.8	99.89	8.647		
14,725.0	8,966.6	15,839.6	9,770.1	50.0	53.7	159.32	-5,600.2	-1,139.0	863.7	763.5	100.26	8.615		
14,800.0	8,966.6	15,914.6	9,770.1	50.5	54.2	159.32	-5,675.2	-1,139.6	863.7	762.4	101.36	8.521		
14,820.0	8,966.6	15,934.6	9,770.1	50.6	54.3	159.32	-5,695.2	-1,139.7	863.7	762.1	101.65	8.497		
14,900.0	8,966.7	16,014.6	9,770.2	51.1	54.8	159.32	-5,775.2	-1,140.4	863.7	760.9	102.83	8.399		
14,915.0	8,966.7	16,029.6	9,770.2	51.2	54.9	159.32	-5,790.2	-1,140.5	863.7	760.7	103.05	8.381		
15,000.0	8,966.8	16,114.6	9,770.3	51.8	55.5	159.32	-5,875.2	-1,141.2	863.7	759.4	104.31	8.281		
15,010.0	8,966.8	16,124.6	9,770.3	51.9	55.5	159.32	-5,885.2	-1,141.3	863.7	759.3	104.46	8.269		
15,100.0	8,966.8	16,214.6	9,770.3	52.5	56.1	159.32	-5,975.2	-1,142.1	863.7	758.0	105.79	8.165		
15,105.0	8,966.8	16,219.6	9,770.3	52.5	56.2	159.32	-5,980.2	-1,142.1	863.7	757.9	105.86	8.159		
15,200.0	8,966.9	16,314.6	9,770.4	53.2	56.8	159.32	-6,075.2	-1,142.9	863.7	756.5	107.27	8.052		
15,295.0	8,967.0	16,409.6	9,770.5	53.8	57.4	159.32	-6,170.2	-1,143.7	863.7	755.1	108.68	7.948		
15,300.0	8,967.0	16,414.6	9,770.5	53.9	57.5	159.32	-6,175.2	-1,143.7	863.7	755.0	108.75	7.942		
15,390.0	8,967.0	16,504.6	9,770.5	54.5	58.1	159.32	-6,265.2	-1,144.5	863.8	753.7	110.09	7.846		
15,400.0	8,967.0	16,514.6	9,770.5	54.6	58.1	159.32	-6,275.2	-1,144.5	863.8	753.5	110.24	7.835		
15,485.0	8,967.1	16,599.6	9,770.6	55.2	58.7	159.32	-6,360.2	-1,145.2	863.8	752.3	111.50	7.747		
15,500.0	8,967.1	16,614.6	9,770.6	55.3	58.8	159.32	-6,375.2	-1,145.4	863.8	752.0	111.72	7.731		
15,580.0	8,967.1	16,694.6	9,770.7	55.8	59.3	159.32	-6,455.2	-1,146.0	863.8	750.8	112.91	7.650		
15,600.0	8,967.2	16,714.6	9,770.7	56.0	59.5	159.32	-6,475.2	-1,146.2	863.8	750.5	113.21	7.630		
15,675.0	8,967.2	16,789.6	9,770.7	56.5	60.0	159.32	-6,550.2	-1,146.8	863.8	749.4	114.33	7.555		
15,700.0	8,967.2	16,814.6	9,770.8	56.7	60.1	159.32	-6,575.2	-1,147.0	863.8	749.1	114.70	7.530		
15,770.0	8,967.3	16,884.6	9,770.8	57.1	60.6	159.32	-6,645.2	-1,147.6	863.8	748.0	115.75	7.462		
15,800.0	8,967.3	16,914.6	9,770.8	57.3	60.8	159.33	-6,675.2	-1,147.8	863.8	747.6	116.20	7.434		
15,865.0	8,967.3	16,979.6	9,770.9	57.8	61.2	159.33	-6,740.2	-1,148.4	863.8	746.6	117.17	7.372		
15,900.0	8,967.4	17,014.6	9,770.9	58.0	61.5	159.33	-6,775.2	-1,148.7	863.8	746.1	117.69	7.339		
15,960.0	8,967.4	17,074.6	9,771.0	58.5	61.9	159.33	-6,835.2	-1,149.2	863.8	745.2	118.59	7.284		
16,000.0	8,967.4	17,114.6	9,771.0	58.7	62.2	159.33	-6,875.2	-1,149.5	863.8	744.6	119.19	7.247		
16,055.0	8,967.5	17,169.6	9,771.0	59.1	62.5	159.33	-6,930.2	-1,150.0	863.8	743.8	120.02	7.197		
16,100.0	8,967.5	17,214.6	9,771.1	59.5	62.8	159.33	-6,975.2	-1,150.3	863.8	743.1	120.69	7.157		
16,150.0	8,967.5	17,264.6	9,771.1	59.8	63.2	159.33	-7,025.2	-1,150.7	863.8	742.4	121.44	7.113		
16,200.0	8,967.6	17,314.6	9,771.1	60.2	63.5	159.33	-7,075.2	-1,151.2	863.8	741.6	122.19	7.069		
16,245.0	8,967.6	17,359.6	9,771.2	60.5	63.8	159.33	-7,120.2	-1,151.5	863.8	740.9	122.87	7.030		
16,300.0	8,967.6	17,414.6	9,771.2	60.9	64.2	159.33	-7,175.2	-1,152.0	863.8	740.1	123.69	6.983		
16,340.0	8,967.7	17,454.6	9,771.2	61.1	64.5	159.33	-7,215.2	-1,152.3	863.8	739.5	124.29	6.950		
16,400.0	8,967.7	17,514.6	9,771.3	61.6	64.9	159.33	-7,275.1	-1,152.8	863.8	738.6	125.20	6.900		
16,435.0	8,967.7	17,549.6	9,771.3	61.8	65.1	159.33	-7,310.1	-1,153.1	863.8	738.1	125.72	6.871		
16,500.0	8,967.8	17,614.6	9,771.3	62.3	65.6	159.33	-7,375.1	-1,153.6	863.8	737.1	126.70	6.818		
16,530.0	8,967.8	17,644.6	9,771.4	62.5	65.8	159.33	-7,405.1	-1,153.9	863.8	736.7	127.15	6.793		
16,600.0	8,967.8	17,714.6	9,771.4	63.0	66.3	159.33	-7,475.1	-1,154.5	863.8	735.6	128.21	6.738		
16,625.0	8,967.8	17,739.6	9,771.4	63.2	66.5	159.33	-7,500.1	-1,154.7	863.8	735.2	128.59	6.718		
16,700.0	8,967.9	17,814.6	9,771.5	63.7	67.0	159.33	-7,575.1	-1,155.3	863.8	734.1	129.72	6.659		
16,720.0	8,967.9	17,834.6	9,771.5	63.8	67.1	159.33	-7,595.1	-1,155.5	863.8	733.8	130.02	6.644		
16,800.0	8,968.0	17,914.6	9,771.6	64.4	67.7	159.33	-7,675.1	-1,156.1	863.8	732.6	131.23	6.583		
16,815.0	8,968.0	17,929.6	9,771.6	64.5	67.8	159.33	-7,690.1	-1,156.2	863.8	732.4	131.45	6.571		
16,900.0	8,968.0	18,014.6	9,771.6	65.1	68.4	159.33	-7,775.1	-1,156.9	863.8	731.1	132.74	6.508		
16,910.0	8,968.0	18,024.6	9,771.6	65.2	68.4	159.33	-7,785.1	-1,157.0	863.8	730.9	132.89	6.500		
17,000.0	8,968.1	18,114.6	9,771.7	65.8	69.1	159.33	-7,875.1	-1,157.8	863.8	729.6	134.25	6.435		
17,005.0	8,968.1	18,119.6	9,771.7	65.9	69.1	159.33	-7,880.1	-1,157.8	863.8	729.5	134.33	6.431		
17,100.0	8,968.2	18,214.6	9,771.8	66.6	69.8	159.33	-7,975.1	-1,158.6	863.8	728.1	135.76	6.363		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)		
17,195.0	8,968.2	18,309.6	9,771.8	67.2	70.4	159.33	-8,070.1	-1,159.4	863.8	726.6	137.20	6.296
17,200.0	8,968.2	18,314.6	9,771.9	67.3	70.5	159.33	-8,075.1	-1,159.4	863.8	726.6	137.28	6.293
17,290.0	8,968.3	18,404.6	9,771.9	67.9	71.1	159.33	-8,165.1	-1,160.2	863.8	725.2	138.64	6.231
17,300.0	8,968.3	18,414.6	9,771.9	68.0	71.2	159.33	-8,175.1	-1,160.3	863.8	725.1	138.79	6.224
17,385.0	8,968.4	18,499.6	9,772.0	68.6	71.8	159.33	-8,260.1	-1,161.0	863.9	723.8	140.08	6.167
17,400.0	8,968.4	18,514.6	9,772.0	68.7	71.9	159.33	-8,275.1	-1,161.1	863.9	723.5	140.31	6.157
17,480.0	8,968.4	18,594.6	9,772.1	69.3	72.4	159.33	-8,355.1	-1,161.7	863.9	722.3	141.52	6.104
17,500.0	8,968.4	18,614.6	9,772.1	69.4	72.6	159.33	-8,375.1	-1,161.9	863.9	722.0	141.83	6.091
17,575.0	8,968.5	18,689.6	9,772.1	70.0	73.1	159.33	-8,450.1	-1,162.5	863.9	720.9	142.97	6.042
17,600.0	8,968.5	18,714.6	9,772.1	70.2	73.3	159.33	-8,475.1	-1,162.7	863.9	720.5	143.35	6.026
17,670.0	8,968.5	18,784.6	9,772.2	70.7	73.8	159.33	-8,545.1	-1,163.3	863.9	719.5	144.41	5.982
17,700.0	8,968.6	18,814.6	9,772.2	70.9	74.0	159.33	-8,575.1	-1,163.6	863.9	719.0	144.87	5.963
17,765.0	8,968.6	18,879.6	9,772.3	71.3	74.5	159.33	-8,640.1	-1,164.1	863.9	718.0	145.85	5.923
17,800.0	8,968.6	18,914.6	9,772.3	71.6	74.7	159.33	-8,675.1	-1,164.4	863.9	717.5	146.39	5.901
17,860.0	8,968.7	18,974.6	9,772.3	72.0	75.1	159.33	-8,735.1	-1,164.9	863.9	716.6	147.30	5.865
17,900.0	8,968.7	19,014.6	9,772.4	72.3	75.4	159.33	-8,775.1	-1,165.2	863.9	716.0	147.91	5.841
17,955.0	8,968.7	19,069.6	9,772.4	72.7	75.8	159.33	-8,830.1	-1,165.7	863.9	715.1	148.75	5.808
18,000.0	8,968.8	19,114.6	9,772.4	73.1	76.1	159.33	-8,875.1	-1,166.0	863.9	714.5	149.43	5.781
18,050.0	8,968.8	19,164.6	9,772.5	73.4	76.5	159.33	-8,925.1	-1,166.5	863.9	713.7	150.19	5.752
18,100.0	8,968.8	19,214.6	9,772.5	73.8	76.8	159.33	-8,975.1	-1,166.9	863.9	712.9	150.95	5.723
18,145.0	8,968.9	19,259.6	9,772.5	74.1	77.1	159.33	-9,020.1	-1,167.2	863.9	712.3	151.64	5.697
18,200.0	8,968.9	19,314.6	9,772.6	74.5	77.5	159.33	-9,075.1	-1,167.7	863.9	711.4	152.48	5.666
18,240.0	8,968.9	19,354.6	9,772.6	74.8	77.8	159.33	-9,115.1	-1,168.0	863.9	710.8	153.09	5.643
18,300.0	8,969.0	19,414.6	9,772.6	75.2	78.3	159.33	-9,175.1	-1,168.5	863.9	709.9	154.00	5.610
18,335.0	8,969.0	19,449.6	9,772.7	75.5	78.5	159.33	-9,210.1	-1,168.8	863.9	709.4	154.54	5.590
18,400.0	8,969.0	19,514.6	9,772.7	76.0	79.0	159.33	-9,275.1	-1,169.4	863.9	708.4	155.53	5.555
18,430.0	8,969.1	19,544.6	9,772.7	76.2	79.2	159.33	-9,305.1	-1,169.6	863.9	707.9	155.99	5.538
18,500.0	8,969.1	19,614.6	9,772.8	76.7	79.7	159.33	-9,375.1	-1,170.2	863.9	706.9	157.06	5.501
18,525.0	8,969.1	19,639.6	9,772.8	76.9	79.9	159.33	-9,400.1	-1,170.4	863.9	706.5	157.44	5.487
18,600.0	8,969.2	19,714.6	9,772.9	77.4	80.4	159.33	-9,475.1	-1,171.0	863.9	705.3	158.58	5.448
18,620.0	8,969.2	19,734.6	9,772.9	77.6	80.5	159.33	-9,495.1	-1,171.2	863.9	705.0	158.89	5.437
18,700.0	8,969.2	19,814.6	9,772.9	78.1	81.1	159.33	-9,575.1	-1,171.8	863.9	703.8	160.11	5.396
18,715.0	8,969.2	19,829.6	9,772.9	78.3	81.2	159.33	-9,590.1	-1,172.0	863.9	703.6	160.34	5.388
18,800.0	8,969.3	19,914.6	9,773.0	78.9	81.8	159.33	-9,675.1	-1,172.7	863.9	702.3	161.64	5.345
18,810.0	8,969.3	19,924.6	9,773.0	79.0	81.9	159.33	-9,685.1	-1,172.7	863.9	702.1	161.79	5.340
18,900.0	8,969.4	20,014.6	9,773.1	79.6	82.6	159.33	-9,775.1	-1,173.5	863.9	700.8	163.17	5.295
18,905.0	8,969.4	20,019.6	9,773.1	79.6	82.6	159.33	-9,780.1	-1,173.5	863.9	700.7	163.25	5.292
19,000.0	8,969.4	20,114.6	9,773.2	80.3	83.3	159.33	-9,875.1	-1,174.3	863.9	699.2	164.70	5.246
19,095.0	8,969.5	20,209.6	9,773.2	81.0	84.0	159.33	-9,970.1	-1,175.1	863.9	697.8	166.15	5.200
19,100.0	8,969.5	20,214.6	9,773.2	81.1	84.0	159.33	-9,975.1	-1,175.1	863.9	697.7	166.23	5.197
19,190.0	8,969.6	20,304.6	9,773.3	81.7	84.6	159.33	-10,065.1	-1,175.9	863.9	696.3	167.61	5.155
19,200.0	8,969.6	20,314.6	9,773.3	81.8	84.7	159.33	-10,075.1	-1,176.0	863.9	696.2	167.76	5.150
19,285.0	8,969.6	20,399.6	9,773.4	82.4	85.3	159.33	-10,160.1	-1,176.7	864.0	694.9	169.06	5.110
19,300.0	8,969.6	20,414.6	9,773.4	82.5	85.4	159.33	-10,175.0	-1,176.8	864.0	694.7	169.29	5.103
19,380.0	8,969.7	20,494.6	9,773.4	83.1	86.0	159.33	-10,255.0	-1,177.5	864.0	693.4	170.52	5.067
19,400.0	8,969.7	20,514.6	9,773.4	83.3	86.2	159.33	-10,275.0	-1,177.6	864.0	693.1	170.83	5.057
19,475.0	8,969.8	20,589.6	9,773.5	83.8	86.7	159.33	-10,350.0	-1,178.2	864.0	692.0	171.98	5.024
19,500.0	8,969.8	20,614.6	9,773.5	84.0	86.9	159.33	-10,375.0	-1,178.4	864.0	691.6	172.36	5.013
19,570.0	8,969.8	20,684.6	9,773.6	84.5	87.4	159.33	-10,445.0	-1,179.0	864.0	690.5	173.43	4.982
19,600.0	8,969.8	20,714.6	9,773.6	84.7	87.6	159.33	-10,475.0	-1,179.3	864.0	690.1	173.89	4.968
19,665.0	8,969.9	20,779.6	9,773.6	85.2	88.1	159.33	-10,540.0	-1,179.8	864.0	689.1	174.89	4.940

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,700.0	8,969.9	20,814.6	9,773.7	85.5	88.3	159.33	-10,575.0	-1,180.1	864.0	688.5	175.43	4.925		
19,760.0	8,969.9	20,874.6	9,773.7	85.9	88.8	159.33	-10,635.0	-1,180.6	864.0	687.6	176.35	4.899		
19,800.0	8,970.0	20,914.6	9,773.7	86.2	89.1	159.33	-10,675.0	-1,180.9	864.0	687.0	176.96	4.882		
19,855.0	8,970.0	20,969.6	9,773.8	86.6	89.5	159.33	-10,730.0	-1,181.4	864.0	686.2	177.81	4.859		
19,900.0	8,970.0	21,014.6	9,773.8	87.0	89.8	159.33	-10,775.0	-1,181.8	864.0	685.5	178.50	4.840		
19,950.0	8,970.1	21,064.6	9,773.8	87.3	90.2	159.33	-10,825.0	-1,182.2	864.0	684.7	179.27	4.820		
20,000.0	8,970.1	21,114.6	9,773.9	87.7	90.5	159.33	-10,875.0	-1,182.6	864.0	684.0	180.04	4.799		
20,045.0	8,970.1	21,159.6	9,773.9	88.0	90.8	159.33	-10,920.0	-1,183.0	864.0	683.3	180.73	4.781		
20,100.0	8,970.2	21,214.6	9,773.9	88.4	91.2	159.33	-10,975.0	-1,183.4	864.0	682.4	181.57	4.758		
20,140.0	8,970.2	21,254.6	9,774.0	88.7	91.5	159.33	-11,015.0	-1,183.7	864.0	681.8	182.19	4.742		
20,200.0	8,970.2	21,314.6	9,774.0	89.2	92.0	159.33	-11,075.0	-1,184.2	864.0	680.9	183.11	4.718		
20,235.0	8,970.3	21,349.6	9,774.0	89.4	92.2	159.33	-11,110.0	-1,184.5	864.0	680.4	183.65	4.705		
20,300.0	8,970.3	21,414.6	9,774.1	89.9	92.7	159.33	-11,175.0	-1,185.1	864.0	679.4	184.65	4.679		
20,330.0	8,970.3	21,444.6	9,774.1	90.1	92.9	159.33	-11,205.0	-1,185.3	864.0	678.9	185.11	4.668		
20,400.0	8,970.4	21,514.6	9,774.2	90.6	93.4	159.33	-11,275.0	-1,185.9	864.0	677.8	186.19	4.641		
20,425.0	8,970.4	21,539.6	9,774.2	90.8	93.6	159.33	-11,300.0	-1,186.1	864.0	677.4	186.57	4.631		
20,500.0	8,970.4	21,614.6	9,774.2	91.4	94.2	159.33	-11,375.0	-1,186.7	864.0	676.3	187.72	4.603		
20,520.0	8,970.5	21,634.6	9,774.3	91.5	94.3	159.33	-11,395.0	-1,186.9	864.0	676.0	188.03	4.595		
20,600.0	8,970.5	21,714.6	9,774.3	92.1	94.9	159.33	-11,475.0	-1,187.5	864.0	674.8	189.26	4.565		
20,615.0	8,970.5	21,729.6	9,774.3	92.2	95.0	159.33	-11,490.0	-1,187.7	864.0	674.5	189.49	4.560		
20,700.0	8,970.6	21,814.6	9,774.4	92.9	95.6	159.33	-11,575.0	-1,188.4	864.0	673.2	190.80	4.528		
20,710.0	8,970.6	21,824.6	9,774.4	92.9	95.7	159.33	-11,585.0	-1,188.5	864.0	673.1	190.96	4.525		
20,800.0	8,970.6	21,914.6	9,774.5	93.6	96.4	159.33	-11,675.0	-1,189.2	864.0	671.7	192.34	4.492		
20,805.0	8,970.6	21,919.6	9,774.5	93.6	96.4	159.33	-11,680.0	-1,189.2	864.0	671.6	192.42	4.490		
20,900.0	8,970.7	22,014.6	9,774.5	94.3	97.1	159.33	-11,775.0	-1,190.0	864.0	670.2	193.88	4.456		
20,995.0	8,970.8	22,109.6	9,774.6	95.1	97.8	159.33	-11,870.0	-1,190.8	864.0	668.7	195.35	4.423		
21,000.0	8,970.8	22,114.6	9,774.6	95.1	97.8	159.33	-11,875.0	-1,190.9	864.0	668.6	195.42	4.421		
21,090.0	8,970.8	22,204.6	9,774.7	95.8	98.5	159.33	-11,965.0	-1,191.6	864.0	667.2	196.81	4.390		
21,100.0	8,970.8	22,214.6	9,774.7	95.8	98.6	159.33	-11,975.0	-1,191.7	864.0	667.1	196.96	4.387		
21,185.0	8,970.9	22,299.6	9,774.7	96.5	99.2	159.33	-12,060.0	-1,192.4	864.0	665.8	198.27	4.358		
21,200.0	8,970.9	22,314.6	9,774.7	96.6	99.3	159.33	-12,075.0	-1,192.5	864.0	665.5	198.50	4.353		
21,280.0	8,971.0	22,394.6	9,774.8	97.2	99.9	159.33	-12,155.0	-1,193.2	864.1	664.3	199.74	4.326		
21,300.0	8,971.0	22,414.6	9,774.8	97.3	100.0	159.33	-12,175.0	-1,193.3	864.1	664.0	200.05	4.319		
21,375.0	8,971.0	22,489.6	9,774.9	97.9	100.6	159.33	-12,250.0	-1,194.0	864.1	662.9	201.20	4.294		
21,400.0	8,971.0	22,514.6	9,774.9	98.1	100.8	159.33	-12,275.0	-1,194.2	864.1	662.5	201.59	4.286		
21,470.0	8,971.1	22,584.6	9,774.9	98.6	101.3	159.33	-12,345.0	-1,194.7	864.1	661.4	202.67	4.263		
21,500.0	8,971.1	22,614.6	9,775.0	98.8	101.5	159.33	-12,375.0	-1,195.0	864.1	660.9	203.13	4.254		
21,565.0	8,971.2	22,679.6	9,775.0	99.3	102.0	159.33	-12,440.0	-1,195.5	864.1	659.9	204.13	4.233		
21,600.0	8,971.2	22,714.6	9,775.0	99.5	102.2	159.33	-12,475.0	-1,195.8	864.1	659.4	204.67	4.222		
21,660.0	8,971.2	22,774.6	9,775.1	100.0	102.7	159.33	-12,535.0	-1,196.3	864.1	658.5	205.60	4.203		
21,700.0	8,971.2	22,814.6	9,775.1	100.3	103.0	159.33	-12,575.0	-1,196.6	864.1	657.9	206.22	4.190		
21,755.0	8,971.3	22,869.6	9,775.1	100.7	103.4	159.33	-12,630.0	-1,197.1	864.1	657.0	207.07	4.173		
21,800.0	8,971.3	22,914.6	9,775.2	101.0	103.7	159.33	-12,675.0	-1,197.5	864.1	656.3	207.76	4.159		
21,850.0	8,971.3	22,964.6	9,775.2	101.4	104.1	159.33	-12,725.0	-1,197.9	864.1	655.5	208.53	4.144		
21,900.0	8,971.4	23,014.6	9,775.3	101.8	104.4	159.33	-12,775.0	-1,198.3	864.1	654.8	209.30	4.128		
21,945.0	8,971.4	23,059.6	9,775.3	102.1	104.8	159.33	-12,820.0	-1,198.7	864.1	654.1	210.00	4.115		
22,000.0	8,971.4	23,114.6	9,775.3	102.5	105.2	159.33	-12,875.0	-1,199.1	864.1	653.2	210.85	4.098		
22,040.0	8,971.5	23,154.6	9,775.4	102.8	105.5	159.33	-12,915.0	-1,199.5	864.1	652.6	211.47	4.086		
22,100.0	8,971.5	23,214.6	9,775.4	103.3	105.9	159.33	-12,975.0	-1,199.9	864.1	651.7	212.39	4.068		
22,135.0	8,971.5	23,249.6	9,775.4	103.5	106.2	159.33	-13,010.0	-1,200.2	864.1	651.2	212.93	4.058		
22,200.0	8,971.6	23,314.6	9,775.5	104.0	106.6	159.33	-13,075.0	-1,200.8	864.1	650.2	213.94	4.039		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
22,230.0	8,971.6	23,344.6	9,775.5	104.2	106.9	159.33	-13,104.9	-1,201.0	864.1	649.7	214.40	4.030		
22,300.0	8,971.6	23,414.6	9,775.5	104.8	107.4	159.33	-13,174.9	-1,201.6	864.1	648.6	215.48	4.010		
22,325.0	8,971.7	23,439.6	9,775.6	104.9	107.6	159.33	-13,199.9	-1,201.8	864.1	648.2	215.87	4.003		
22,400.0	8,971.7	23,514.6	9,775.6	105.5	108.1	159.33	-13,274.9	-1,202.4	864.1	647.1	217.03	3.982		
22,420.0	8,971.7	23,534.6	9,775.6	105.7	108.3	159.33	-13,294.9	-1,202.6	864.1	646.8	217.34	3.976		
22,500.0	8,971.8	23,614.6	9,775.7	106.3	108.9	159.33	-13,374.9	-1,203.3	864.1	645.5	218.57	3.953		
22,515.0	8,971.8	23,629.6	9,775.7	106.4	109.0	159.33	-13,389.9	-1,203.4	864.1	645.3	218.81	3.949		
22,600.0	8,971.8	23,714.6	9,775.8	107.0	109.6	159.33	-13,474.9	-1,204.1	864.1	644.0	220.12	3.926		
22,610.0	8,971.9	23,724.6	9,775.8	107.1	109.7	159.33	-13,484.9	-1,204.2	864.1	643.8	220.27	3.923		
22,700.0	8,971.9	23,814.6	9,775.8	107.7	110.3	159.33	-13,574.9	-1,204.9	864.1	642.5	221.67	3.898		
22,705.0	8,971.9	23,819.6	9,775.8	107.8	110.4	159.33	-13,579.9	-1,205.0	864.1	642.4	221.74	3.897		
22,800.0	8,972.0	23,914.6	9,775.9	108.5	111.1	159.33	-13,674.9	-1,205.7	864.1	640.9	223.21	3.871		
22,895.0	8,972.0	24,009.6	9,776.0	109.2	111.8	159.33	-13,769.9	-1,206.5	864.1	639.5	224.68	3.846		
22,900.0	8,972.0	24,014.6	9,776.0	109.2	111.8	159.33	-13,774.9	-1,206.6	864.1	639.4	224.76	3.845		
22,990.0	8,972.1	24,104.6	9,776.0	109.9	112.5	159.33	-13,864.9	-1,207.3	864.1	638.0	226.15	3.821		
23,000.0	8,972.1	24,114.6	9,776.0	110.0	112.6	159.33	-13,874.9	-1,207.4	864.1	637.8	226.31	3.818		
23,085.0	8,972.2	24,199.6	9,776.1	110.6	113.2	159.33	-13,959.9	-1,208.1	864.1	636.5	227.62	3.796		
23,100.0	8,972.2	24,214.6	9,776.1	110.7	113.3	159.33	-13,974.9	-1,208.2	864.1	636.3	227.85	3.793		
23,180.0	8,972.2	24,294.6	9,776.2	111.3	113.9	159.33	-14,054.9	-1,208.9	864.1	635.1	229.09	3.772		
23,200.0	8,972.2	24,314.6	9,776.2	111.5	114.0	159.33	-14,074.9	-1,209.0	864.2	634.7	229.40	3.767		
23,275.0	8,972.3	24,389.6	9,776.2	112.0	114.6	159.33	-14,149.9	-1,209.7	864.2	633.6	230.56	3.748		
23,300.0	8,972.3	24,414.6	9,776.3	112.2	114.8	159.33	-14,174.9	-1,209.9	864.2	633.2	230.95	3.742		
23,370.0	8,972.4	24,484.6	9,776.3	112.8	115.3	159.33	-14,244.9	-1,210.5	864.2	632.1	232.03	3.724		
23,400.0	8,972.4	24,514.6	9,776.3	113.0	115.5	159.33	-14,274.9	-1,210.7	864.2	631.7	232.50	3.717		
23,465.0	8,972.4	24,579.6	9,776.4	113.5	116.0	159.33	-14,339.9	-1,211.2	864.2	630.7	233.50	3.701		
23,500.0	8,972.4	24,614.6	9,776.4	113.7	116.3	159.33	-14,374.9	-1,211.5	864.2	630.1	234.04	3.692		
23,560.0	8,972.5	24,674.6	9,776.5	114.2	116.7	159.33	-14,434.9	-1,212.0	864.2	629.2	234.97	3.678		
23,600.0	8,972.5	24,714.6	9,776.5	114.5	117.0	159.33	-14,474.9	-1,212.4	864.2	628.6	235.59	3.668		
23,655.0	8,972.6	24,769.6	9,776.5	114.9	117.4	159.33	-14,529.9	-1,212.8	864.2	627.7	236.44	3.655		
23,700.0	8,972.6	24,814.6	9,776.6	115.2	117.8	159.33	-14,574.9	-1,213.2	864.2	627.0	237.14	3.644		
23,750.0	8,972.6	24,864.6	9,776.6	115.6	118.1	159.33	-14,624.9	-1,213.6	864.2	626.3	237.92	3.632		
23,800.0	8,972.6	24,914.6	9,776.6	116.0	118.5	159.33	-14,674.9	-1,214.0	864.2	625.5	238.69	3.621		
23,845.0	8,972.7	24,959.6	9,776.7	116.3	118.8	159.33	-14,719.9	-1,214.4	864.2	624.8	239.39	3.610		
23,900.0	8,972.7	25,014.6	9,776.7	116.7	119.2	159.33	-14,774.9	-1,214.8	864.2	623.9	240.24	3.597		
23,940.0	8,972.7	25,054.6	9,776.7	117.0	119.5	159.33	-14,814.9	-1,215.2	864.2	623.3	240.86	3.588		
24,000.0	8,972.8	25,114.6	9,776.8	117.5	120.0	159.33	-14,874.9	-1,215.7	864.2	622.4	241.79	3.574		
24,035.0	8,972.8	25,149.6	9,776.8	117.7	120.2	159.33	-14,909.9	-1,216.0	864.2	621.9	242.33	3.566		
24,100.0	8,972.9	25,214.6	9,776.8	118.2	120.7	159.33	-14,974.9	-1,216.5	864.2	620.9	243.34	3.551		
24,130.0	8,972.9	25,244.6	9,776.9	118.4	121.0	159.34	-15,004.9	-1,216.7	864.2	620.4	243.80	3.545		
24,193.6	8,972.9	25,308.2	9,776.9	118.9	121.4	159.34	-15,068.5	-1,217.3	864.2	619.4	244.79	3.530		
24,200.0	8,972.9	25,314.6	9,776.9	119.0	121.5	159.34	-15,074.9	-1,217.3	864.2	619.3	244.89	3.529		
24,225.0	8,972.9	25,339.6	9,776.9	119.2	121.7	159.34	-15,099.9	-1,217.5	864.2	618.9	245.28	3.523		
24,300.0	8,973.0	25,414.6	9,777.0	119.7	122.2	159.34	-15,174.9	-1,218.1	864.2	617.8	246.44	3.507		
24,300.4	8,973.0	25,415.0	9,777.0	119.7	122.2	159.34	-15,175.3	-1,218.1	864.2	617.8	246.44	3.507		
24,320.0	8,973.0	25,430.7	9,777.0	119.9	122.3	159.34	-15,190.9	-1,218.3	864.2	617.5	246.72	3.503		
24,323.6	8,973.0	25,430.7	9,777.0	119.9	122.3	159.34	-15,190.9	-1,218.3	864.2	617.5	246.75	3.503 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 #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft					
Offset		Semi Major Axis		Offset Wellbore Centre		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.0	4,912.4	5,116.1	5,027.1	18.5	19.0	-9.52	557.2	-1,976.2	1,311.6	1,278.9	32.63	40.200			
5,035.0	4,946.9	5,142.7	5,053.5	18.6	19.2	-9.43	559.2	-1,973.9	1,303.1	1,270.3	32.86	39.662			
5,100.0	5,010.9	5,200.0	5,110.5	18.9	19.4	-9.27	562.9	-1,969.6	1,288.5	1,255.2	33.29	38.711			
5,130.0	5,040.6	5,215.6	5,126.0	19.0	19.5	-9.23	563.8	-1,968.6	1,282.2	1,248.7	33.47	38.307			
5,200.0	5,109.8	5,269.8	5,180.1	19.3	19.7	-9.12	566.5	-1,965.6	1,268.7	1,234.8	33.91	37.411			
5,225.0	5,134.5	5,289.3	5,199.5	19.4	19.7	-9.09	567.2	-1,964.7	1,264.2	1,230.2	34.07	37.110			
5,300.0	5,208.8	5,348.0	5,258.2	19.8	19.9	-9.02	569.1	-1,962.5	1,252.2	1,217.7	34.52	36.276			
5,320.0	5,228.7	5,363.7	5,273.9	19.8	20.0	-9.01	569.4	-1,962.1	1,249.3	1,214.6	34.63	36.070			
5,400.0	5,308.1	5,426.7	5,336.9	20.2	20.2	-9.00	570.3	-1,961.1	1,239.0	1,203.9	35.07	35.326			
5,415.0	5,323.0	5,438.6	5,348.7	20.2	20.2	-9.00	570.4	-1,961.0	1,237.3	1,202.1	35.15	35.205			
5,500.0	5,407.6	5,518.7	5,428.9	20.6	20.2	-9.04	570.4	-1,961.0	1,228.8	1,193.3	35.52	34.590			
5,510.0	5,417.5	5,528.7	5,438.8	20.6	20.2	-9.05	570.4	-1,961.0	1,227.9	1,192.3	35.57	34.522			
5,600.0	5,507.2	5,618.4	5,528.5	20.9	20.3	-9.09	570.4	-1,961.0	1,220.4	1,184.5	35.96	33.936			
5,605.0	5,512.2	5,623.4	5,533.5	21.0	20.3	-9.10	570.4	-1,961.0	1,220.1	1,184.1	35.98	33.906			
5,700.0	5,607.0	5,718.1	5,628.3	21.3	20.3	-9.13	570.4	-1,961.0	1,213.8	1,177.4	36.38	33.363			
5,795.0	5,701.9	5,813.0	5,723.2	21.6	20.3	-9.16	570.4	-1,961.0	1,209.1	1,172.3	36.76	32.895			
5,800.0	5,706.9	5,818.0	5,728.2	21.6	20.4	-9.16	570.4	-1,961.0	1,208.9	1,172.1	36.78	32.872			
5,890.0	5,796.8	5,908.0	5,818.1	21.9	20.4	-9.18	570.4	-1,961.0	1,205.9	1,168.8	37.10	32.504			
5,900.0	5,806.8	5,918.0	5,828.1	21.9	20.4	-9.18	570.4	-1,961.0	1,205.7	1,168.6	37.14	32.465			
5,985.0	5,891.8	6,003.0	5,913.1	22.2	20.4	-9.19	570.4	-1,961.0	1,204.3	1,166.9	37.40	32.201			
6,000.0	5,906.8	6,018.0	5,928.1	22.2	20.4	-9.19	570.4	-1,961.0	1,204.2	1,166.8	37.45	32.159			
6,035.2	5,942.0	6,053.2	5,963.3	22.2	20.5	-77.57	570.4	-1,961.0	1,204.1	1,166.6	37.50	32.107			
6,080.0	5,986.8	6,098.0	6,008.1	22.2	20.5	-77.57	570.4	-1,961.0	1,204.1	1,166.6	37.54	32.077			
6,100.0	6,006.8	6,118.0	6,028.1	22.2	20.5	-77.57	570.4	-1,961.0	1,204.1	1,166.6	37.56	32.063			
6,175.0	6,081.8	6,193.0	6,103.1	22.3	20.5	-77.57	570.4	-1,961.0	1,204.1	1,166.5	37.63	32.001			
6,200.0	6,106.8	6,218.0	6,128.1	22.3	20.5	-77.57	570.4	-1,961.0	1,204.1	1,166.5	37.65	31.981			
6,270.0	6,176.8	6,288.0	6,198.1	22.3	20.6	-77.57	570.4	-1,961.0	1,204.1	1,166.4	37.72	31.924			
6,300.0	6,206.8	6,318.0	6,228.1	22.3	20.6	-77.57	570.4	-1,961.0	1,204.1	1,166.4	37.75	31.899			
6,365.0	6,271.8	6,383.0	6,293.1	22.3	20.6	-77.57	570.4	-1,961.0	1,204.1	1,166.3	37.81	31.846			
6,400.0	6,306.8	6,418.0	6,328.1	22.4	20.6	-77.57	570.4	-1,961.0	1,204.1	1,166.3	37.84	31.818			
6,460.0	6,366.8	6,478.0	6,388.1	22.4	20.7	-77.57	570.4	-1,961.0	1,204.1	1,166.2	37.90	31.769			
6,500.0	6,406.8	6,518.0	6,428.1	22.4	20.7	-77.57	570.4	-1,961.0	1,204.1	1,166.2	37.94	31.736			
6,555.0	6,461.8	6,573.0	6,483.1	22.4	20.7	-77.57	570.4	-1,961.0	1,204.1	1,166.1	38.00	31.691			
6,600.0	6,506.8	6,618.0	6,528.1	22.4	20.7	-77.57	570.4	-1,961.0	1,204.1	1,166.1	38.04	31.655			
6,650.0	6,556.8	6,668.0	6,578.1	22.5	20.7	-77.57	570.4	-1,961.0	1,204.1	1,166.0	38.09	31.614			
6,700.0	6,606.8	6,718.0	6,628.1	22.5	20.8	-77.57	570.4	-1,961.0	1,204.1	1,166.0	38.14	31.573			
6,745.0	6,651.8	6,763.0	6,673.1	22.5	20.8	-77.57	570.4	-1,961.0	1,204.1	1,165.9	38.18	31.537			
6,800.0	6,706.8	6,818.0	6,728.1	22.5	20.8	-77.57	570.4	-1,961.0	1,204.1	1,165.9	38.24	31.492			
6,840.0	6,746.8	6,858.0	6,768.1	22.5	20.8	-77.57	570.4	-1,961.0	1,204.1	1,165.9	38.28	31.459			
6,900.0	6,806.8	6,918.0	6,828.1	22.6	20.9	-77.57	570.4	-1,961.0	1,204.1	1,165.8	38.34	31.411			
6,935.0	6,841.8	6,953.0	6,863.1	22.6	20.9	-77.57	570.4	-1,961.0	1,204.1	1,165.8	38.37	31.382			
7,000.0	6,906.8	7,018.0	6,928.1	22.6	20.9	-77.57	570.4	-1,961.0	1,204.1	1,165.7	38.43	31.329			
7,030.0	6,936.8	7,048.0	6,958.1	22.6	20.9	-77.57	570.4	-1,961.0	1,204.1	1,165.7	38.46	31.305			
7,100.0	7,006.8	7,118.0	7,028.1	22.6	21.0	-77.57	570.4	-1,961.0	1,204.1	1,165.6	38.53	31.248			
7,125.0	7,031.8	7,143.0	7,053.1	22.6	21.0	-77.57	570.4	-1,961.0	1,204.1	1,165.6	38.56	31.228			
7,200.0	7,106.8	7,218.0	7,128.1	22.7	21.0	-77.57	570.4	-1,961.0	1,204.1	1,165.5	38.63	31.167			
7,220.0	7,126.8	7,238.0	7,148.1	22.7	21.0	-77.57	570.4	-1,961.0	1,204.1	1,165.5	38.65	31.151			
7,300.0	7,206.8	7,318.0	7,228.1	22.7	21.1	-77.57	570.4	-1,961.0	1,204.1	1,165.4	38.74	31.086			
7,315.0	7,221.8	7,333.0	7,243.1	22.7	21.1	-77.57	570.4	-1,961.0	1,204.1	1,165.4	38.75	31.074			
7,400.0	7,306.8	7,418.0	7,328.1	22.8	21.1	-77.57	570.4	-1,961.0	1,204.1	1,165.3	38.84	31.005			
7,410.0	7,316.8	7,428.0	7,338.1	22.8	21.1	-77.57	570.4	-1,961.0	1,204.1	1,165.3	38.85	30.997			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9292-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
7,500.0	7,406.8	7,518.0	7,428.1	22.8	21.1	-77.57	570.4	-1,961.0	1,204.1	1,165.2	38.94	30.924		
7,505.0	7,411.8	7,523.0	7,433.1	22.8	21.2	-77.57	570.4	-1,961.0	1,204.1	1,165.2	38.94	30.920		
7,600.0	7,506.8	7,618.0	7,528.1	22.8	21.2	-77.57	570.4	-1,961.0	1,204.1	1,165.1	39.04	30.844		
7,695.0	7,601.8	7,713.0	7,623.1	22.9	21.2	-77.57	570.4	-1,961.0	1,204.1	1,165.0	39.14	30.767		
7,700.0	7,606.8	7,718.0	7,628.1	22.9	21.2	-77.57	570.4	-1,961.0	1,204.1	1,165.0	39.14	30.763		
7,790.0	7,696.8	7,808.0	7,718.1	22.9	21.3	-77.57	570.4	-1,961.0	1,204.1	1,164.9	39.23	30.691		
7,800.0	7,706.8	7,818.0	7,728.1	22.9	21.3	-77.57	570.4	-1,961.0	1,204.1	1,164.9	39.24	30.683		
7,885.0	7,791.8	7,903.0	7,813.1	23.0	21.3	-77.57	570.4	-1,961.0	1,204.1	1,164.8	39.33	30.614		
7,900.0	7,806.8	7,918.0	7,828.1	23.0	21.3	-77.57	570.4	-1,961.0	1,204.1	1,164.8	39.35	30.602		
7,980.0	7,886.8	7,998.0	7,908.1	23.0	21.4	-77.57	570.4	-1,961.0	1,204.1	1,164.7	39.43	30.538		
8,000.0	7,906.8	8,018.0	7,928.1	23.0	21.4	-77.57	570.4	-1,961.0	1,204.1	1,164.7	39.45	30.522		
8,075.0	7,981.8	8,093.0	8,003.1	23.0	21.4	-77.57	570.4	-1,961.0	1,204.1	1,164.6	39.53	30.462		
8,100.0	8,006.8	8,118.0	8,028.1	23.0	21.4	-77.57	570.4	-1,961.0	1,204.1	1,164.6	39.56	30.442		
8,170.0	8,076.8	8,188.0	8,098.1	23.1	21.5	-77.57	570.4	-1,961.0	1,204.1	1,164.5	39.63	30.386		
8,200.0	8,106.8	8,218.0	8,128.1	23.1	21.5	-77.57	570.4	-1,961.0	1,204.1	1,164.5	39.66	30.362		
8,265.0	8,171.8	8,283.0	8,193.1	23.1	21.5	-77.57	570.4	-1,961.0	1,204.1	1,164.4	39.73	30.310		
8,300.0	8,206.8	8,318.0	8,228.1	23.1	21.5	-77.57	570.4	-1,961.0	1,204.1	1,164.4	39.76	30.282		
8,360.0	8,266.8	8,378.0	8,288.1	23.2	21.6	-77.57	570.4	-1,961.0	1,204.1	1,164.3	39.83	30.234		
8,400.0	8,306.8	8,418.0	8,328.1	23.2	21.6	-77.57	570.4	-1,961.0	1,204.1	1,164.3	39.87	30.202		
8,455.0	8,361.8	8,473.0	8,383.1	23.2	21.6	-77.57	570.4	-1,961.0	1,204.1	1,164.2	39.92	30.164		
8,483.2	8,390.0	8,501.2	8,411.3	23.2	21.6	-77.57	570.4	-1,961.0	1,204.1	1,164.2	39.95	30.144	CC, ES	
8,500.0	8,406.8	8,518.0	8,428.1	23.2	21.6	101.96	570.4	-1,961.0	1,204.2	1,164.2	39.96	30.138	SF	
8,550.0	8,456.7	8,567.8	8,478.0	23.2	21.7	102.06	570.4	-1,961.0	1,204.9	1,165.0	39.98	30.139		
8,600.0	8,506.0	8,617.1	8,527.3	23.2	21.7	102.26	570.4	-1,961.0	1,206.6	1,166.7	39.99	30.177		
8,645.0	8,549.7	8,660.8	8,571.0	23.2	21.7	102.51	570.4	-1,961.0	1,209.0	1,169.1	39.97	30.245		
8,650.0	8,554.5	8,665.6	8,575.8	23.2	21.7	102.54	570.4	-1,961.0	1,209.4	1,169.4	39.97	30.255		
8,700.0	8,601.7	8,712.8	8,623.0	23.3	21.7	102.89	570.4	-1,961.0	1,213.2	1,173.2	39.94	30.374		
8,740.0	8,638.3	8,749.4	8,659.6	23.3	21.8	103.18	570.4	-1,961.0	1,217.1	1,177.2	39.90	30.500		
8,750.0	8,647.3	8,758.4	8,668.6	23.3	21.8	103.25	570.4	-1,961.0	1,218.2	1,178.3	39.89	30.537		
8,800.0	8,690.9	8,802.1	8,712.2	23.3	21.8	103.60	570.4	-1,961.0	1,224.7	1,184.8	39.83	30.748		
8,835.0	8,720.1	8,831.3	8,741.4	23.3	21.8	103.80	570.4	-1,961.0	1,230.1	1,190.3	39.77	30.926		
8,850.0	8,732.3	8,843.4	8,753.6	23.3	21.8	103.88	570.4	-1,961.0	1,232.6	1,192.9	39.75	31.010		
8,900.0	8,771.0	8,882.2	8,792.3	23.3	21.8	104.04	570.4	-1,961.0	1,242.3	1,202.6	39.66	31.327		
8,930.0	8,792.9	8,904.0	8,814.2	23.4	21.8	104.06	570.4	-1,961.0	1,249.0	1,209.4	39.59	31.544		
8,950.0	8,806.9	8,918.0	8,828.2	23.4	21.9	104.04	570.4	-1,961.0	1,253.8	1,214.2	39.55	31.701		
9,000.0	8,839.5	8,950.7	8,860.8	23.4	21.9	103.81	570.4	-1,961.0	1,267.2	1,227.8	39.43	32.135		
9,025.0	8,854.6	8,965.8	8,875.9	23.4	21.9	103.60	570.4	-1,961.0	1,274.7	1,235.4	39.38	32.374		
9,050.0	8,868.8	8,979.9	8,890.1	23.4	21.9	103.32	570.4	-1,961.0	1,282.7	1,243.4	39.31	32.629		
9,100.0	8,894.4	9,005.6	8,915.7	23.5	21.9	102.50	570.4	-1,961.0	1,300.3	1,261.1	39.19	33.183		
9,120.0	8,903.6	9,014.7	8,924.9	23.5	21.9	102.08	570.4	-1,961.0	1,307.9	1,268.8	39.14	33.421		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference	Semi Major Axis 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
9,200.0	8,933.9	8,901.3	8,895.7	23.6	261.7	25.46	-1,342.7	-990.9	1,277.3	999.4	277.94	4.596	
9,215.0	8,938.5	8,905.0	8,899.3	23.6	261.8	27.52	-1,342.7	-990.9	1,263.2	985.1	278.05	4.543	
9,250.0	8,947.6	8,912.4	8,906.7	23.6	262.0	33.60	-1,342.8	-990.9	1,229.9	951.6	278.26	4.420	
9,300.0	8,957.0	8,920.3	8,914.6	23.7	262.3	46.92	-1,342.9	-990.9	1,181.5	903.0	278.47	4.243	
9,310.0	8,958.3	8,921.5	8,915.8	23.7	262.3	50.48	-1,342.9	-990.9	1,171.7	893.2	278.50	4.207	
9,350.0	8,962.0	8,924.8	8,919.1	23.7	262.4	68.34	-1,342.9	-990.9	1,132.5	853.9	278.58	4.065	
9,382.9	8,963.0	8,925.9	8,920.2	23.8	262.4	86.35	-1,342.9	-990.9	1,100.2	821.6	278.58	3.949	
9,400.0	8,963.0	8,926.0	8,920.3	23.8	262.5	86.40	-1,342.9	-990.9	1,083.3	804.7	278.57	3.889	
9,405.0	8,963.0	8,926.1	8,920.4	23.8	262.5	86.41	-1,342.9	-990.9	1,078.4	799.8	278.57	3.871	
9,500.0	8,963.1	8,927.0	8,921.3	23.9	262.5	86.68	-1,342.9	-990.9	985.0	706.5	278.50	3.537	
9,595.0	8,963.1	8,927.9	8,922.2	24.1	262.5	86.96	-1,342.9	-990.9	892.1	613.6	278.42	3.204	
9,600.0	8,963.1	8,928.0	8,922.3	24.1	262.5	86.97	-1,342.9	-990.9	887.2	608.8	278.42	3.187	
9,690.0	8,963.2	8,928.9	8,923.2	24.3	262.5	87.24	-1,343.0	-990.9	799.6	521.2	278.33	2.873	
9,700.0	8,963.2	8,929.0	8,923.3	24.3	262.5	87.28	-1,343.0	-990.9	789.9	511.5	278.32	2.838	
9,785.0	8,963.3	8,929.9	8,924.2	24.5	262.6	87.54	-1,343.0	-990.9	707.7	429.5	278.24	2.544	
9,800.0	8,963.3	8,930.0	8,924.3	24.5	262.6	87.59	-1,343.0	-990.9	693.3	415.1	278.23	2.492	
9,880.0	8,963.3	8,930.9	8,925.2	24.7	262.6	87.85	-1,343.0	-990.9	616.8	338.7	278.15	2.218	
9,900.0	8,963.3	8,931.1	8,925.4	24.7	262.6	87.91	-1,343.0	-990.9	597.9	319.7	278.13	2.150	
9,975.0	8,963.4	8,932.0	8,926.3	24.9	262.6	88.17	-1,343.0	-990.9	527.4	249.3	278.10	1.896 Advise and Monitor	
10,000.0	8,963.4	8,932.3	8,926.6	25.0	262.6	88.25	-1,343.0	-990.9	504.2	226.1	278.09	1.813 Advise and Monitor	
10,070.0	8,963.5	8,933.1	8,927.4	25.1	262.7	88.50	-1,343.0	-990.9	440.3	162.1	278.16	1.583 Advise and Monitor	
10,100.0	8,963.5	8,933.4	8,927.7	25.2	262.7	88.60	-1,343.0	-990.9	413.5	135.3	278.23	1.486 Advise and Monitor	
10,165.0	8,963.5	8,934.2	8,928.5	25.4	262.7	88.84	-1,343.0	-990.9	357.2	78.7	278.56	1.283 Advise and Monitor	
10,200.0	8,963.5	8,934.7	8,929.0	25.5	262.7	88.97	-1,343.0	-990.9	328.3	49.4	278.88	1.177 Advise and Monitor	
10,260.0	8,963.6	8,935.4	8,929.7	25.7	262.7	89.20	-1,343.0	-990.9	281.8	2.0	279.83	1.007 Advise and Monitor	
10,300.0	8,963.6	8,935.9	8,930.2	25.8	262.8	89.35	-1,343.0	-990.9	254.0	-26.8	280.85	0.905 Advise and Monitor	
10,355.0	8,963.7	8,936.7	8,931.0	26.0	262.8	89.56	-1,343.1	-990.9	222.0	-60.9	282.90	0.785 Advise and Monitor	
10,400.0	8,963.7	8,937.3	8,931.6	26.1	262.8	89.74	-1,343.1	-990.9	203.2	-81.8	285.00	0.713 Advise and Monitor	
10,450.0	8,963.7	8,937.9	8,932.3	26.3	262.8	89.95	-1,343.1	-990.9	192.8	-94.5	287.33	0.671 Advise and Monitor	
10,466.2	8,963.7	8,938.2	8,932.5	26.3	262.8	90.02	-1,343.1	-990.9	192.1	-95.8	287.95	0.667 Advise and Monitor, CC, ES, SF	
10,500.0	8,963.7	8,938.6	8,933.0	26.4	262.8	90.16	-1,343.1	-990.9	195.1	-93.8	288.91	0.675 Advise and Monitor	
10,545.0	8,963.8	8,939.3	8,933.6	26.6	262.9	90.35	-1,343.1	-990.9	207.7	-81.7	289.41	0.718 Advise and Monitor	
10,600.0	8,963.8	8,940.1	8,934.4	26.8	262.9	90.59	-1,343.1	-990.9	234.1	-55.0	289.11	0.810 Advise and Monitor	
10,640.0	8,963.8	8,940.7	8,935.0	26.9	262.9	90.77	-1,343.1	-990.9	259.1	-29.5	288.57	0.898 Advise and Monitor	
10,700.0	8,963.9	8,941.6	8,935.9	27.1	262.9	91.04	-1,343.1	-990.9	302.6	15.0	287.64	1.052 Advise and Monitor	
10,735.0	8,963.9	8,942.1	8,936.4	27.3	262.9	91.20	-1,343.1	-990.9	330.4	43.3	287.13	1.151 Advise and Monitor	
10,800.0	8,963.9	8,943.2	8,937.5	27.5	263.0	91.51	-1,343.1	-990.9	385.1	98.8	286.29	1.345 Advise and Monitor	
10,830.0	8,964.0	8,943.7	8,938.0	27.6	263.0	91.65	-1,343.1	-990.9	411.4	125.4	285.96	1.439 Advise and Monitor	
10,900.0	8,964.0	8,944.8	8,939.1	27.9	263.0	92.00	-1,343.2	-990.9	474.4	189.1	285.32	1.663 Advise and Monitor	
10,925.0	8,964.0	8,945.2	8,939.6	28.0	263.0	92.12	-1,343.2	-990.9	497.4	212.2	285.13	1.744 Advise and Monitor	
11,000.0	8,964.1	8,946.6	8,940.9	28.3	263.1	92.51	-1,343.2	-990.9	567.3	282.6	284.65	1.993 Advise and Monitor	
11,020.0	8,964.1	8,946.9	8,941.2	28.4	263.1	92.62	-1,343.2	-990.9	586.1	301.6	284.55	2.060	
11,100.0	8,964.1	8,948.4	8,942.7	28.7	263.1	93.05	-1,343.2	-990.9	662.2	378.0	284.19	2.330	
11,115.0	8,964.2	8,948.6	8,942.9	28.8	263.1	93.13	-1,343.2	-990.9	676.6	392.5	284.13	2.381	
11,200.0	8,964.2	8,950.3	8,944.6	29.2	263.2	93.62	-1,343.2	-990.9	758.5	474.6	283.86	2.672	
11,210.0	8,964.2	8,950.5	8,944.8	29.2	263.2	93.67	-1,343.3	-990.9	768.1	484.3	283.84	2.706	
11,300.0	8,964.3	8,952.3	8,946.6	29.6	263.2	94.21	-1,343.3	-990.9	855.6	571.9	283.64	3.016	
11,305.0	8,964.3	8,952.4	8,946.7	29.6	263.2	94.24	-1,343.3	-990.9	860.4	576.8	283.63	3.034	
11,400.0	8,964.3	8,954.4	8,948.7	30.1	263.3	94.83	-1,343.3	-990.9	953.3	669.8	283.48	3.363	
11,495.0	8,964.4	8,956.5	8,950.8	30.5	263.4	95.45	-1,343.3	-990.9	1,046.5	763.1	283.39	3.693	
11,500.0	8,964.4	8,956.6	8,950.9	30.6	263.4	95.48	-1,343.4	-990.9	1,051.4	768.0	283.38	3.710	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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		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		
11,590.0	8,964.5	8,958.7	8,953.0	31.0	263.4	96.10	-1,343.4	-990.9	1,140.0	856.6	283.33	4.024		
11,600.0	8,964.5	8,958.9	8,953.2	31.0	263.4	96.17	-1,343.4	-990.9	1,149.8	866.5	283.32	4.058		
11,685.0	8,964.5	8,961.0	8,955.3	31.5	263.5	96.79	-1,343.4	-990.9	1,233.7	950.4	283.30	4.355		
11,700.0	8,964.6	8,961.4	8,955.7	31.5	263.5	96.90	-1,343.4	-990.9	1,248.5	965.2	283.30	4.407		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3129.3ft @ 3161.3usft

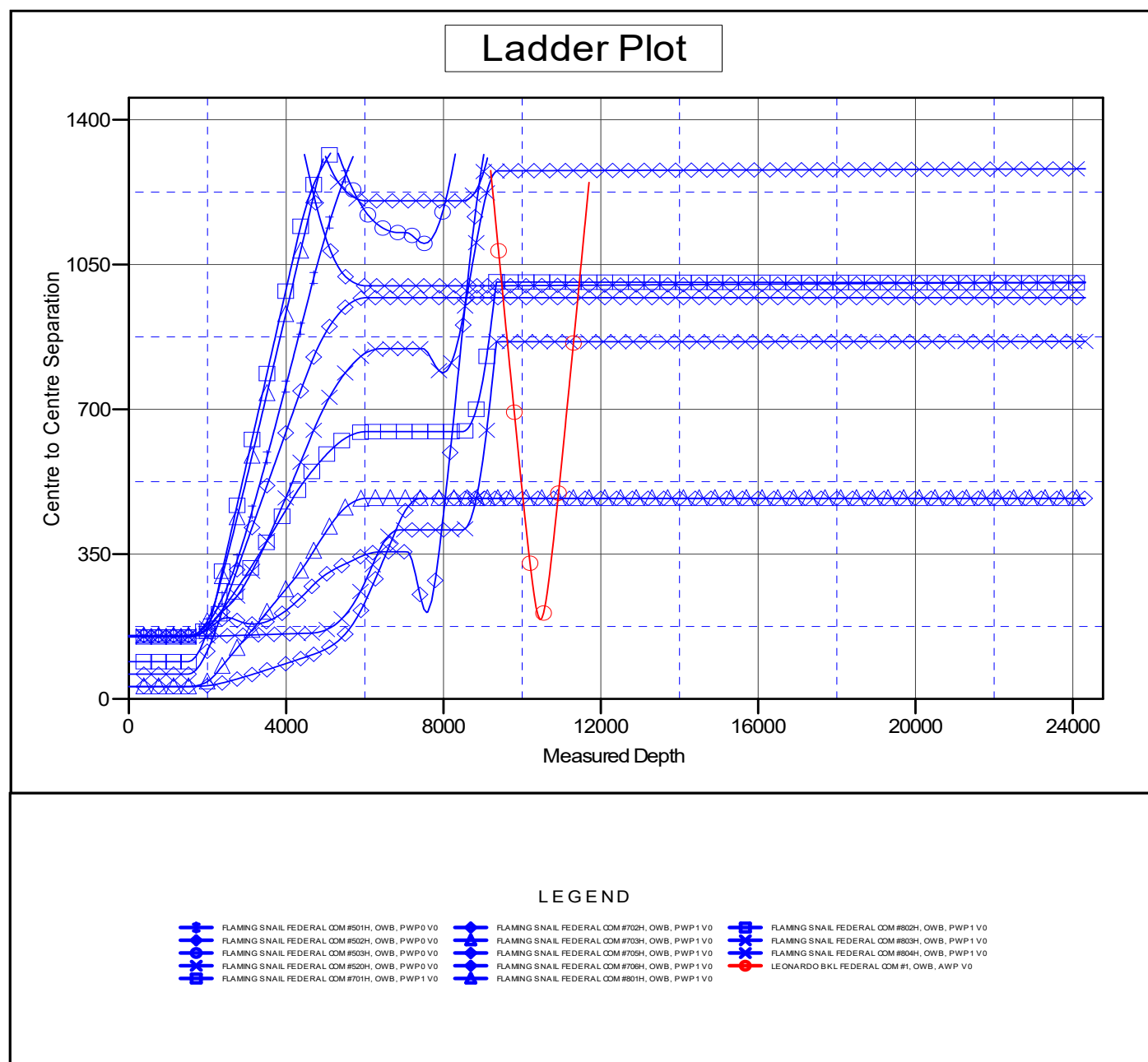
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #704H

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

Grid Convergence at Surface is: 0.08°



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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3129.3ft @ 3161.3usf

Offset Depths are relative to Offset Datum

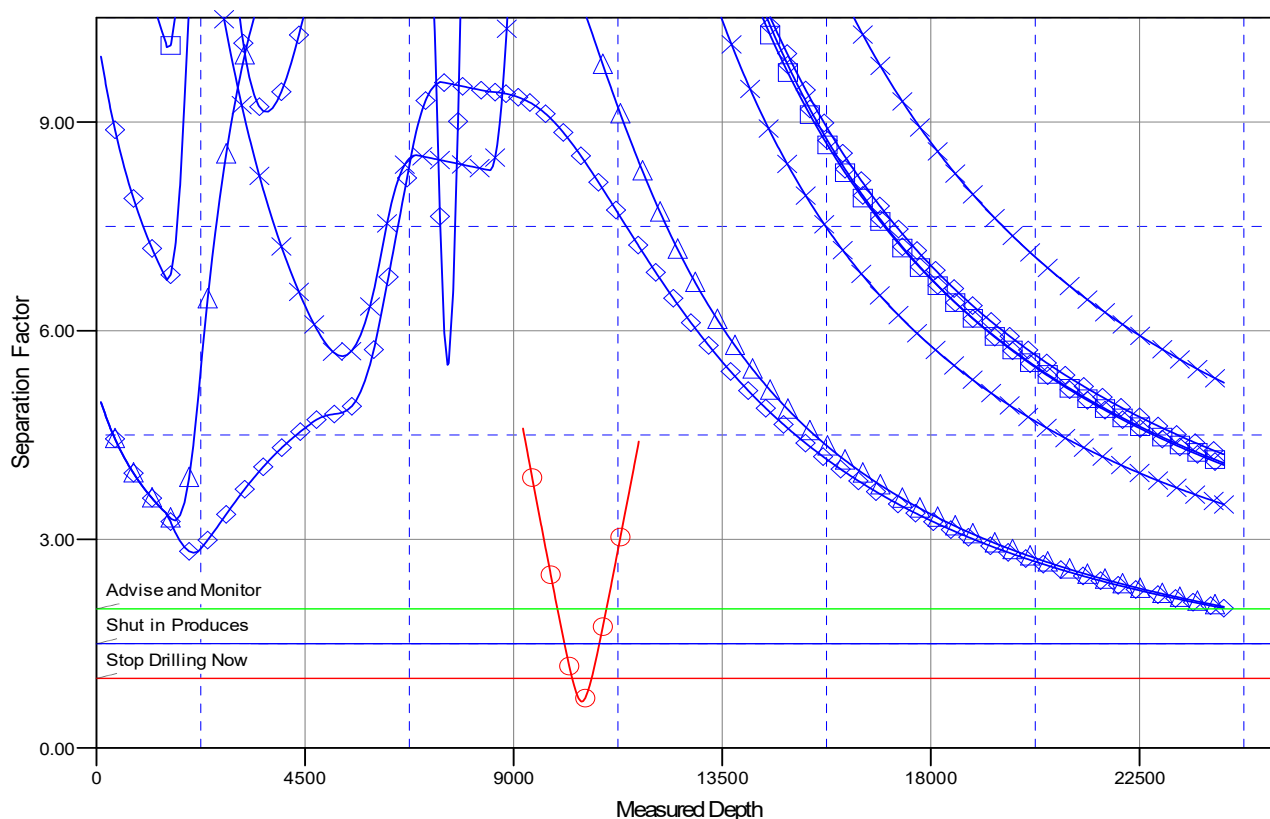
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #704H

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

Grid Convergence at Surface is: 0.08°

Separation Factor Plot



LEGEND

FLAMING SNAIL FEDERAL COM #501H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #702H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #802H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #703H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #803H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #504H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #804H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #505H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #705H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #805H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #506H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #706H, OWB, PWP1 V0	LEONARDO BKL FEDERAL COM #1, AWP 1 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 #704H

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 #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #704H	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 #704H					
Well Position	+N/-S	-548.0 usft	Northing:	402,473.70 usft	Latitude:	32° 6' 23.164 N
	+E/-W	4,312.9 usft	Easting:	544,624.80 usft	Longitude:	104° 11' 21.168 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,129.3 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,317.42458282

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	183.44

Plan Survey Tool Program	Date	9/24/2022		
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	8,483.2 PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	8,483.2	24,323.6 PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-St

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,200.1	14.00	291.62	2,193.2	31.4	-79.1	2.00	2.00	0.00	291.62	
4,634.9	14.00	291.62	4,555.6	248.5	-626.8	0.00	0.00	0.00	0.00	
6,035.2	0.00	0.00	5,942.0	311.2	-785.1	1.00	-1.00	0.00	180.00	
8,483.2	0.00	0.00	8,390.0	311.2	-785.1	0.00	0.00	0.00	0.00	
9,382.9	89.96	180.47	8,963.0	-261.4	-789.8	10.00	10.00	-19.96	180.47	
24,193.6	89.96	180.47	8,972.9	-15,071.6	-912.3	0.00	0.00	0.00	0.00	LTP (FLAMING SNAI
24,323.6	89.96	180.47	8,973.0	-15,201.6	-913.4	0.00	0.00	0.00	0.00	PBHL (FLAMING SN#

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #704H	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	291.62	1,600.0	0.6	-1.6	-0.5	2.00	2.00	0.00
1,700.0	4.00	291.62	1,699.8	2.6	-6.5	-2.2	2.00	2.00	0.00
1,800.0	6.00	291.62	1,799.5	5.8	-14.6	-4.9	2.00	2.00	0.00
1,900.0	8.00	291.62	1,898.7	10.3	-25.9	-8.7	2.00	2.00	0.00
2,000.0	10.00	291.62	1,997.5	16.0	-40.5	-13.6	2.00	2.00	0.00
2,100.0	12.00	291.62	2,095.6	23.1	-58.2	-19.5	2.00	2.00	0.00
2,200.1	14.00	291.62	2,193.2	31.4	-79.1	-26.6	2.00	2.00	0.00
Start 2434.8 hold at 2200.1 MD									
2,300.0	14.00	291.62	2,290.1	40.3	-101.6	-34.1	0.00	0.00	0.00
2,400.0	14.00	291.62	2,387.1	49.2	-124.1	-41.7	0.00	0.00	0.00
2,500.0	14.00	291.62	2,484.1	58.1	-146.6	-49.2	0.00	0.00	0.00
2,600.0	14.00	291.62	2,581.2	67.0	-169.1	-56.8	0.00	0.00	0.00
2,700.0	14.00	291.62	2,678.2	75.9	-191.6	-64.3	0.00	0.00	0.00
2,800.0	14.00	291.62	2,775.2	84.9	-214.1	-71.9	0.00	0.00	0.00
2,900.0	14.00	291.62	2,872.3	93.8	-236.6	-79.4	0.00	0.00	0.00
3,000.0	14.00	291.62	2,969.3	102.7	-259.1	-87.0	0.00	0.00	0.00
3,100.0	14.00	291.62	3,066.3	111.6	-281.6	-94.5	0.00	0.00	0.00
3,200.0	14.00	291.62	3,163.3	120.5	-304.0	-102.1	0.00	0.00	0.00
3,300.0	14.00	291.62	3,260.4	129.4	-326.5	-109.6	0.00	0.00	0.00
3,400.0	14.00	291.62	3,357.4	138.4	-349.0	-117.2	0.00	0.00	0.00
3,500.0	14.00	291.62	3,454.4	147.3	-371.5	-124.7	0.00	0.00	0.00
3,600.0	14.00	291.62	3,551.5	156.2	-394.0	-132.3	0.00	0.00	0.00
3,700.0	14.00	291.62	3,648.5	165.1	-416.5	-139.8	0.00	0.00	0.00
3,800.0	14.00	291.62	3,745.5	174.0	-439.0	-147.4	0.00	0.00	0.00
3,900.0	14.00	291.62	3,842.5	182.9	-461.5	-154.9	0.00	0.00	0.00
4,000.0	14.00	291.62	3,939.6	191.8	-484.0	-162.5	0.00	0.00	0.00
4,100.0	14.00	291.62	4,036.6	200.8	-506.5	-170.0	0.00	0.00	0.00
4,200.0	14.00	291.62	4,133.6	209.7	-529.0	-177.6	0.00	0.00	0.00
4,300.0	14.00	291.62	4,230.7	218.6	-551.5	-185.1	0.00	0.00	0.00
4,400.0	14.00	291.62	4,327.7	227.5	-574.0	-192.7	0.00	0.00	0.00
4,500.0	14.00	291.62	4,424.7	236.4	-596.5	-200.2	0.00	0.00	0.00
4,600.0	14.00	291.62	4,521.7	245.3	-619.0	-207.8	0.00	0.00	0.00
4,634.9	14.00	291.62	4,555.6	248.5	-626.8	-210.4	0.00	0.00	0.00
Start Drop -1.00									
4,700.0	13.35	291.62	4,618.9	254.1	-641.1	-215.2	1.00	-1.00	0.00
4,800.0	12.35	291.62	4,716.3	262.3	-661.8	-222.2	1.00	-1.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	11.35	291.62	4,814.2	269.9	-680.9	-228.6	1.00	-1.00	0.00
5,000.0	10.35	291.62	4,912.4	276.8	-698.4	-234.4	1.00	-1.00	0.00
5,100.0	9.35	291.62	5,010.9	283.1	-714.3	-239.8	1.00	-1.00	0.00
5,200.0	8.35	291.62	5,109.8	288.8	-728.6	-244.6	1.00	-1.00	0.00
5,300.0	7.35	291.62	5,208.8	293.8	-741.3	-248.9	1.00	-1.00	0.00
5,400.0	6.35	291.62	5,308.1	298.2	-752.4	-252.6	1.00	-1.00	0.00
5,500.0	5.35	291.62	5,407.6	302.0	-761.9	-255.8	1.00	-1.00	0.00
5,600.0	4.35	291.62	5,507.2	305.1	-769.7	-258.4	1.00	-1.00	0.00
5,700.0	3.35	291.62	5,607.0	307.6	-776.0	-260.5	1.00	-1.00	0.00
5,800.0	2.35	291.62	5,706.9	309.4	-780.6	-262.0	1.00	-1.00	0.00
5,900.0	1.35	291.62	5,806.8	310.6	-783.6	-263.1	1.00	-1.00	0.00
6,000.0	0.35	291.62	5,906.8	311.2	-785.0	-263.5	1.00	-1.00	0.00
6,035.2	0.00	0.00	5,942.0	311.2	-785.1	-263.6	1.00	-1.00	0.00
Start 2448.0 hold at 6035.2 MD									
6,100.0	0.00	0.00	6,006.8	311.2	-785.1	-263.6	0.00	0.00	0.00
6,200.0	0.00	0.00	6,106.8	311.2	-785.1	-263.6	0.00	0.00	0.00
6,300.0	0.00	0.00	6,206.8	311.2	-785.1	-263.6	0.00	0.00	0.00
6,400.0	0.00	0.00	6,306.8	311.2	-785.1	-263.6	0.00	0.00	0.00
6,500.0	0.00	0.00	6,406.8	311.2	-785.1	-263.6	0.00	0.00	0.00
6,600.0	0.00	0.00	6,506.8	311.2	-785.1	-263.6	0.00	0.00	0.00
6,700.0	0.00	0.00	6,606.8	311.2	-785.1	-263.6	0.00	0.00	0.00
6,800.0	0.00	0.00	6,706.8	311.2	-785.1	-263.6	0.00	0.00	0.00
6,900.0	0.00	0.00	6,806.8	311.2	-785.1	-263.6	0.00	0.00	0.00
7,000.0	0.00	0.00	6,906.8	311.2	-785.1	-263.6	0.00	0.00	0.00
7,100.0	0.00	0.00	7,006.8	311.2	-785.1	-263.6	0.00	0.00	0.00
7,200.0	0.00	0.00	7,106.8	311.2	-785.1	-263.6	0.00	0.00	0.00
7,300.0	0.00	0.00	7,206.8	311.2	-785.1	-263.6	0.00	0.00	0.00
7,400.0	0.00	0.00	7,306.8	311.2	-785.1	-263.6	0.00	0.00	0.00
7,500.0	0.00	0.00	7,406.8	311.2	-785.1	-263.6	0.00	0.00	0.00
7,600.0	0.00	0.00	7,506.8	311.2	-785.1	-263.6	0.00	0.00	0.00
7,700.0	0.00	0.00	7,606.8	311.2	-785.1	-263.6	0.00	0.00	0.00
7,800.0	0.00	0.00	7,706.8	311.2	-785.1	-263.6	0.00	0.00	0.00
7,900.0	0.00	0.00	7,806.8	311.2	-785.1	-263.6	0.00	0.00	0.00
8,000.0	0.00	0.00	7,906.8	311.2	-785.1	-263.6	0.00	0.00	0.00
8,100.0	0.00	0.00	8,006.8	311.2	-785.1	-263.6	0.00	0.00	0.00
8,200.0	0.00	0.00	8,106.8	311.2	-785.1	-263.6	0.00	0.00	0.00
8,300.0	0.00	0.00	8,206.8	311.2	-785.1	-263.6	0.00	0.00	0.00
8,400.0	0.00	0.00	8,306.8	311.2	-785.1	-263.6	0.00	0.00	0.00
8,483.2	0.00	0.00	8,390.0	311.2	-785.1	-263.6	0.00	0.00	0.00
Start DLS 10.00 TFO 180.47									
8,500.0	1.68	180.47	8,406.8	311.0	-785.1	-263.3	10.00	10.00	0.00
8,550.0	6.68	180.47	8,456.7	307.3	-785.1	-259.7	10.00	10.00	0.00
8,600.0	11.68	180.47	8,506.0	299.3	-785.2	-251.7	10.00	10.00	0.00
8,650.0	16.68	180.47	8,554.5	287.1	-785.3	-239.5	10.00	10.00	0.00
8,700.0	21.68	180.47	8,601.7	270.7	-785.4	-223.1	10.00	10.00	0.00
8,750.0	26.68	180.47	8,647.3	250.2	-785.6	-202.6	10.00	10.00	0.00
8,800.0	31.68	180.47	8,690.9	225.9	-785.8	-178.3	10.00	10.00	0.00
8,850.0	36.68	180.47	8,732.3	197.8	-786.0	-150.3	10.00	10.00	0.00
8,900.0	41.68	180.47	8,771.0	166.2	-786.3	-118.7	10.00	10.00	0.00
8,950.0	46.68	180.47	8,806.9	131.4	-786.6	-84.0	10.00	10.00	0.00
9,000.0	51.68	180.47	8,839.5	93.5	-786.9	-46.2	10.00	10.00	0.00
9,050.0	56.68	180.47	8,868.8	53.0	-787.2	-5.7	10.00	10.00	0.00
9,100.0	61.68	180.47	8,894.4	10.1	-787.6	37.2	10.00	10.00	0.00
9,150.0	66.68	180.47	8,916.2	-34.9	-788.0	82.1	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #704H	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)
9,200.0	71.68	180.47	8,933.9	-81.6	-788.3	128.7	10.00	10.00	0.00
9,250.0	76.68	180.47	8,947.6	-129.7	-788.7	176.8	10.00	10.00	0.00
9,300.0	81.68	180.47	8,957.0	-178.8	-789.2	225.8	10.00	10.00	0.00
9,350.0	86.68	180.47	8,962.0	-228.5	-789.6	275.5	10.00	10.00	0.00
9,382.9	89.96	180.47	8,963.0	-261.4	-789.8	308.3	10.00	10.00	0.00
Start 14810.8 hold at 9382.9 MD									
9,400.0	89.96	180.47	8,963.0	-278.5	-790.0	325.4	0.00	0.00	0.00
9,500.0	89.96	180.47	8,963.1	-378.5	-790.8	425.2	0.00	0.00	0.00
9,600.0	89.96	180.47	8,963.1	-478.5	-791.6	525.1	0.00	0.00	0.00
9,700.0	89.96	180.47	8,963.2	-578.5	-792.5	625.0	0.00	0.00	0.00
9,800.0	89.96	180.47	8,963.3	-678.5	-793.3	724.8	0.00	0.00	0.00
9,900.0	89.96	180.47	8,963.3	-778.5	-794.1	824.7	0.00	0.00	0.00
10,000.0	89.96	180.47	8,963.4	-878.5	-794.9	924.6	0.00	0.00	0.00
10,100.0	89.96	180.47	8,963.5	-978.5	-795.8	1,024.4	0.00	0.00	0.00
10,200.0	89.96	180.47	8,963.5	-1,078.5	-796.6	1,124.3	0.00	0.00	0.00
10,300.0	89.96	180.47	8,963.6	-1,178.5	-797.4	1,224.2	0.00	0.00	0.00
10,400.0	89.96	180.47	8,963.7	-1,278.5	-798.2	1,324.0	0.00	0.00	0.00
10,500.0	89.96	180.47	8,963.7	-1,378.5	-799.1	1,423.9	0.00	0.00	0.00
10,600.0	89.96	180.47	8,963.8	-1,478.5	-799.9	1,523.8	0.00	0.00	0.00
10,700.0	89.96	180.47	8,963.9	-1,578.5	-800.7	1,623.6	0.00	0.00	0.00
10,800.0	89.96	180.47	8,963.9	-1,678.4	-801.6	1,723.5	0.00	0.00	0.00
10,900.0	89.96	180.47	8,964.0	-1,778.4	-802.4	1,823.4	0.00	0.00	0.00
11,000.0	89.96	180.47	8,964.1	-1,878.4	-803.2	1,923.2	0.00	0.00	0.00
11,100.0	89.96	180.47	8,964.1	-1,978.4	-804.0	2,023.1	0.00	0.00	0.00
11,200.0	89.96	180.47	8,964.2	-2,078.4	-804.9	2,123.0	0.00	0.00	0.00
11,300.0	89.96	180.47	8,964.3	-2,178.4	-805.7	2,222.8	0.00	0.00	0.00
11,400.0	89.96	180.47	8,964.3	-2,278.4	-806.5	2,322.7	0.00	0.00	0.00
11,500.0	89.96	180.47	8,964.4	-2,378.4	-807.3	2,422.6	0.00	0.00	0.00
11,600.0	89.96	180.47	8,964.5	-2,478.4	-808.2	2,522.4	0.00	0.00	0.00
11,700.0	89.96	180.47	8,964.6	-2,578.4	-809.0	2,622.3	0.00	0.00	0.00
11,800.0	89.96	180.47	8,964.6	-2,678.4	-809.8	2,722.2	0.00	0.00	0.00
11,900.0	89.96	180.47	8,964.7	-2,778.4	-810.6	2,822.0	0.00	0.00	0.00
12,000.0	89.96	180.47	8,964.8	-2,878.4	-811.5	2,921.9	0.00	0.00	0.00
12,100.0	89.96	180.47	8,964.8	-2,978.4	-812.3	3,021.8	0.00	0.00	0.00
12,200.0	89.96	180.47	8,964.9	-3,078.4	-813.1	3,121.6	0.00	0.00	0.00
12,300.0	89.96	180.47	8,965.0	-3,178.4	-814.0	3,221.5	0.00	0.00	0.00
12,400.0	89.96	180.47	8,965.0	-3,278.4	-814.8	3,321.4	0.00	0.00	0.00
12,500.0	89.96	180.47	8,965.1	-3,378.4	-815.6	3,421.2	0.00	0.00	0.00
12,600.0	89.96	180.47	8,965.2	-3,478.4	-816.4	3,521.1	0.00	0.00	0.00
12,700.0	89.96	180.47	8,965.2	-3,578.4	-817.3	3,621.0	0.00	0.00	0.00
12,800.0	89.96	180.47	8,965.3	-3,678.4	-818.1	3,720.8	0.00	0.00	0.00
12,900.0	89.96	180.47	8,965.4	-3,778.4	-818.9	3,820.7	0.00	0.00	0.00
13,000.0	89.96	180.47	8,965.4	-3,878.4	-819.7	3,920.6	0.00	0.00	0.00
13,100.0	89.96	180.47	8,965.5	-3,978.4	-820.6	4,020.4	0.00	0.00	0.00
13,200.0	89.96	180.47	8,965.6	-4,078.4	-821.4	4,120.3	0.00	0.00	0.00
13,300.0	89.96	180.47	8,965.6	-4,178.4	-822.2	4,220.2	0.00	0.00	0.00
13,400.0	89.96	180.47	8,965.7	-4,278.4	-823.1	4,320.0	0.00	0.00	0.00
13,500.0	89.96	180.47	8,965.8	-4,378.4	-823.9	4,419.9	0.00	0.00	0.00
13,600.0	89.96	180.47	8,965.8	-4,478.4	-824.7	4,519.8	0.00	0.00	0.00
13,700.0	89.96	180.47	8,965.9	-4,578.3	-825.5	4,619.6	0.00	0.00	0.00
13,800.0	89.96	180.47	8,966.0	-4,678.3	-826.4	4,719.5	0.00	0.00	0.00
13,900.0	89.96	180.47	8,966.0	-4,778.3	-827.2	4,819.4	0.00	0.00	0.00
14,000.0	89.96	180.47	8,966.1	-4,878.3	-828.0	4,919.2	0.00	0.00	0.00
14,100.0	89.96	180.47	8,966.2	-4,978.3	-828.8	5,019.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,200.0	89.96	180.47	8,966.2	-5,078.3	-829.7	5,119.0	0.00	0.00	0.00
14,300.0	89.96	180.47	8,966.3	-5,178.3	-830.5	5,218.8	0.00	0.00	0.00
14,400.0	89.96	180.47	8,966.4	-5,278.3	-831.3	5,318.7	0.00	0.00	0.00
14,500.0	89.96	180.47	8,966.4	-5,378.3	-832.1	5,418.5	0.00	0.00	0.00
14,600.0	89.96	180.47	8,966.5	-5,478.3	-833.0	5,518.4	0.00	0.00	0.00
14,700.0	89.96	180.47	8,966.6	-5,578.3	-833.8	5,618.3	0.00	0.00	0.00
14,800.0	89.96	180.47	8,966.6	-5,678.3	-834.6	5,718.1	0.00	0.00	0.00
14,900.0	89.96	180.47	8,966.7	-5,778.3	-835.5	5,818.0	0.00	0.00	0.00
15,000.0	89.96	180.47	8,966.8	-5,878.3	-836.3	5,917.9	0.00	0.00	0.00
15,100.0	89.96	180.47	8,966.8	-5,978.3	-837.1	6,017.7	0.00	0.00	0.00
15,200.0	89.96	180.47	8,966.9	-6,078.3	-837.9	6,117.6	0.00	0.00	0.00
15,300.0	89.96	180.47	8,967.0	-6,178.3	-838.8	6,217.5	0.00	0.00	0.00
15,400.0	89.96	180.47	8,967.0	-6,278.3	-839.6	6,317.3	0.00	0.00	0.00
15,500.0	89.96	180.47	8,967.1	-6,378.3	-840.4	6,417.2	0.00	0.00	0.00
15,600.0	89.96	180.47	8,967.2	-6,478.3	-841.2	6,517.1	0.00	0.00	0.00
15,700.0	89.96	180.47	8,967.2	-6,578.3	-842.1	6,616.9	0.00	0.00	0.00
15,800.0	89.96	180.47	8,967.3	-6,678.3	-842.9	6,716.8	0.00	0.00	0.00
15,900.0	89.96	180.47	8,967.4	-6,778.3	-843.7	6,816.7	0.00	0.00	0.00
16,000.0	89.96	180.47	8,967.4	-6,878.3	-844.5	6,916.5	0.00	0.00	0.00
16,100.0	89.96	180.47	8,967.5	-6,978.3	-845.4	7,016.4	0.00	0.00	0.00
16,200.0	89.96	180.47	8,967.6	-7,078.3	-846.2	7,116.3	0.00	0.00	0.00
16,300.0	89.96	180.47	8,967.6	-7,178.3	-847.0	7,216.1	0.00	0.00	0.00
16,400.0	89.96	180.47	8,967.7	-7,278.3	-847.9	7,316.0	0.00	0.00	0.00
16,500.0	89.96	180.47	8,967.8	-7,378.3	-848.7	7,415.9	0.00	0.00	0.00
16,600.0	89.96	180.47	8,967.8	-7,478.2	-849.5	7,515.7	0.00	0.00	0.00
16,700.0	89.96	180.47	8,967.9	-7,578.2	-850.3	7,615.6	0.00	0.00	0.00
16,800.0	89.96	180.47	8,968.0	-7,678.2	-851.2	7,715.5	0.00	0.00	0.00
16,900.0	89.96	180.47	8,968.0	-7,778.2	-852.0	7,815.3	0.00	0.00	0.00
17,000.0	89.96	180.47	8,968.1	-7,878.2	-852.8	7,915.2	0.00	0.00	0.00
17,100.0	89.96	180.47	8,968.2	-7,978.2	-853.6	8,015.1	0.00	0.00	0.00
17,200.0	89.96	180.47	8,968.2	-8,078.2	-854.5	8,114.9	0.00	0.00	0.00
17,300.0	89.96	180.47	8,968.3	-8,178.2	-855.3	8,214.8	0.00	0.00	0.00
17,400.0	89.96	180.47	8,968.4	-8,278.2	-856.1	8,314.7	0.00	0.00	0.00
17,500.0	89.96	180.47	8,968.4	-8,378.2	-857.0	8,414.5	0.00	0.00	0.00
17,600.0	89.96	180.47	8,968.5	-8,478.2	-857.8	8,514.4	0.00	0.00	0.00
17,700.0	89.96	180.47	8,968.6	-8,578.2	-858.6	8,614.3	0.00	0.00	0.00
17,800.0	89.96	180.47	8,968.6	-8,678.2	-859.4	8,714.1	0.00	0.00	0.00
17,900.0	89.96	180.47	8,968.7	-8,778.2	-860.3	8,814.0	0.00	0.00	0.00
18,000.0	89.96	180.47	8,968.8	-8,878.2	-861.1	8,913.9	0.00	0.00	0.00
18,100.0	89.96	180.47	8,968.8	-8,978.2	-861.9	9,013.7	0.00	0.00	0.00
18,200.0	89.96	180.47	8,968.9	-9,078.2	-862.7	9,113.6	0.00	0.00	0.00
18,300.0	89.96	180.47	8,969.0	-9,178.2	-863.6	9,213.5	0.00	0.00	0.00
18,400.0	89.96	180.47	8,969.0	-9,278.2	-864.4	9,313.3	0.00	0.00	0.00
18,500.0	89.96	180.47	8,969.1	-9,378.2	-865.2	9,413.2	0.00	0.00	0.00
18,600.0	89.96	180.47	8,969.2	-9,478.2	-866.0	9,513.1	0.00	0.00	0.00
18,700.0	89.96	180.47	8,969.2	-9,578.2	-866.9	9,612.9	0.00	0.00	0.00
18,800.0	89.96	180.47	8,969.3	-9,678.2	-867.7	9,712.8	0.00	0.00	0.00
18,900.0	89.96	180.47	8,969.4	-9,778.2	-868.5	9,812.7	0.00	0.00	0.00
19,000.0	89.96	180.47	8,969.4	-9,878.2	-869.4	9,912.5	0.00	0.00	0.00
19,100.0	89.96	180.47	8,969.5	-9,978.2	-870.2	10,012.4	0.00	0.00	0.00
19,200.0	89.96	180.47	8,969.6	-10,078.2	-871.0	10,112.3	0.00	0.00	0.00
19,300.0	89.96	180.47	8,969.6	-10,178.2	-871.8	10,212.1	0.00	0.00	0.00
19,400.0	89.96	180.47	8,969.7	-10,278.2	-872.7	10,312.0	0.00	0.00	0.00
19,500.0	89.96	180.47	8,969.8	-10,378.1	-873.5	10,411.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,600.0	89.96	180.47	8,969.8	-10,478.1	-874.3	10,511.7	0.00	0.00	0.00
19,700.0	89.96	180.47	8,969.9	-10,578.1	-875.1	10,611.6	0.00	0.00	0.00
19,800.0	89.96	180.47	8,970.0	-10,678.1	-876.0	10,711.5	0.00	0.00	0.00
19,900.0	89.96	180.47	8,970.0	-10,778.1	-876.8	10,811.3	0.00	0.00	0.00
20,000.0	89.96	180.47	8,970.1	-10,878.1	-877.6	10,911.2	0.00	0.00	0.00
20,100.0	89.96	180.47	8,970.2	-10,978.1	-878.5	11,011.1	0.00	0.00	0.00
20,200.0	89.96	180.47	8,970.2	-11,078.1	-879.3	11,110.9	0.00	0.00	0.00
20,300.0	89.96	180.47	8,970.3	-11,178.1	-880.1	11,210.8	0.00	0.00	0.00
20,400.0	89.96	180.47	8,970.4	-11,278.1	-880.9	11,310.7	0.00	0.00	0.00
20,500.0	89.96	180.47	8,970.4	-11,378.1	-881.8	11,410.5	0.00	0.00	0.00
20,600.0	89.96	180.47	8,970.5	-11,478.1	-882.6	11,510.4	0.00	0.00	0.00
20,700.0	89.96	180.47	8,970.6	-11,578.1	-883.4	11,610.2	0.00	0.00	0.00
20,800.0	89.96	180.47	8,970.6	-11,678.1	-884.2	11,710.1	0.00	0.00	0.00
20,900.0	89.96	180.47	8,970.7	-11,778.1	-885.1	11,810.0	0.00	0.00	0.00
21,000.0	89.96	180.47	8,970.8	-11,878.1	-885.9	11,909.8	0.00	0.00	0.00
21,100.0	89.96	180.47	8,970.8	-11,978.1	-886.7	12,009.7	0.00	0.00	0.00
21,200.0	89.96	180.47	8,970.9	-12,078.1	-887.5	12,109.6	0.00	0.00	0.00
21,300.0	89.96	180.47	8,971.0	-12,178.1	-888.4	12,209.4	0.00	0.00	0.00
21,400.0	89.96	180.47	8,971.0	-12,278.1	-889.2	12,309.3	0.00	0.00	0.00
21,500.0	89.96	180.47	8,971.1	-12,378.1	-890.0	12,409.2	0.00	0.00	0.00
21,600.0	89.96	180.47	8,971.2	-12,478.1	-890.9	12,509.0	0.00	0.00	0.00
21,700.0	89.96	180.47	8,971.2	-12,578.1	-891.7	12,608.9	0.00	0.00	0.00
21,800.0	89.96	180.47	8,971.3	-12,678.1	-892.5	12,708.8	0.00	0.00	0.00
21,900.0	89.96	180.47	8,971.4	-12,778.1	-893.3	12,808.6	0.00	0.00	0.00
22,000.0	89.96	180.47	8,971.4	-12,878.1	-894.2	12,908.5	0.00	0.00	0.00
22,100.0	89.96	180.47	8,971.5	-12,978.1	-895.0	13,008.4	0.00	0.00	0.00
22,200.0	89.96	180.47	8,971.6	-13,078.1	-895.8	13,108.2	0.00	0.00	0.00
22,300.0	89.96	180.47	8,971.6	-13,178.1	-896.6	13,208.1	0.00	0.00	0.00
22,400.0	89.96	180.47	8,971.7	-13,278.1	-897.5	13,308.0	0.00	0.00	0.00
22,500.0	89.96	180.47	8,971.8	-13,378.0	-898.3	13,407.8	0.00	0.00	0.00
22,600.0	89.96	180.47	8,971.8	-13,478.0	-899.1	13,507.7	0.00	0.00	0.00
22,700.0	89.96	180.47	8,971.9	-13,578.0	-899.9	13,607.6	0.00	0.00	0.00
22,800.0	89.96	180.47	8,972.0	-13,678.0	-900.8	13,707.4	0.00	0.00	0.00
22,900.0	89.96	180.47	8,972.0	-13,778.0	-901.6	13,807.3	0.00	0.00	0.00
23,000.0	89.96	180.47	8,972.1	-13,878.0	-902.4	13,907.2	0.00	0.00	0.00
23,100.0	89.96	180.47	8,972.2	-13,978.0	-903.3	14,007.0	0.00	0.00	0.00
23,200.0	89.96	180.47	8,972.2	-14,078.0	-904.1	14,106.9	0.00	0.00	0.00
23,300.0	89.96	180.47	8,972.3	-14,178.0	-904.9	14,206.8	0.00	0.00	0.00
23,400.0	89.96	180.47	8,972.4	-14,278.0	-905.7	14,306.6	0.00	0.00	0.00
23,500.0	89.96	180.47	8,972.4	-14,378.0	-906.6	14,406.5	0.00	0.00	0.00
23,600.0	89.96	180.47	8,972.5	-14,478.0	-907.4	14,506.4	0.00	0.00	0.00
23,700.0	89.96	180.47	8,972.6	-14,578.0	-908.2	14,606.2	0.00	0.00	0.00
23,800.0	89.96	180.47	8,972.6	-14,678.0	-909.0	14,706.1	0.00	0.00	0.00
23,900.0	89.96	180.47	8,972.7	-14,778.0	-909.9	14,806.0	0.00	0.00	0.00
24,000.0	89.96	180.47	8,972.8	-14,878.0	-910.7	14,905.8	0.00	0.00	0.00
24,100.0	89.96	180.47	8,972.9	-14,978.0	-911.5	15,005.7	0.00	0.00	0.00
24,193.6	89.96	180.47	8,972.9	-15,071.6	-912.3	15,099.2	0.00	0.00	0.00
Start 130.0 hold at 24193.6 MD									
24,200.0	89.96	180.47	8,972.9	-15,078.0	-912.4	15,105.6	0.00	0.00	0.00
24,300.0	89.96	180.47	8,973.0	-15,178.0	-913.2	15,205.4	0.00	0.00	0.00
24,323.6	89.96	180.47	8,973.0	-15,201.6	-913.4	15,229.0	0.00	0.00	0.00
TD at 24323.6									

ConocoPhillips

Planning Report

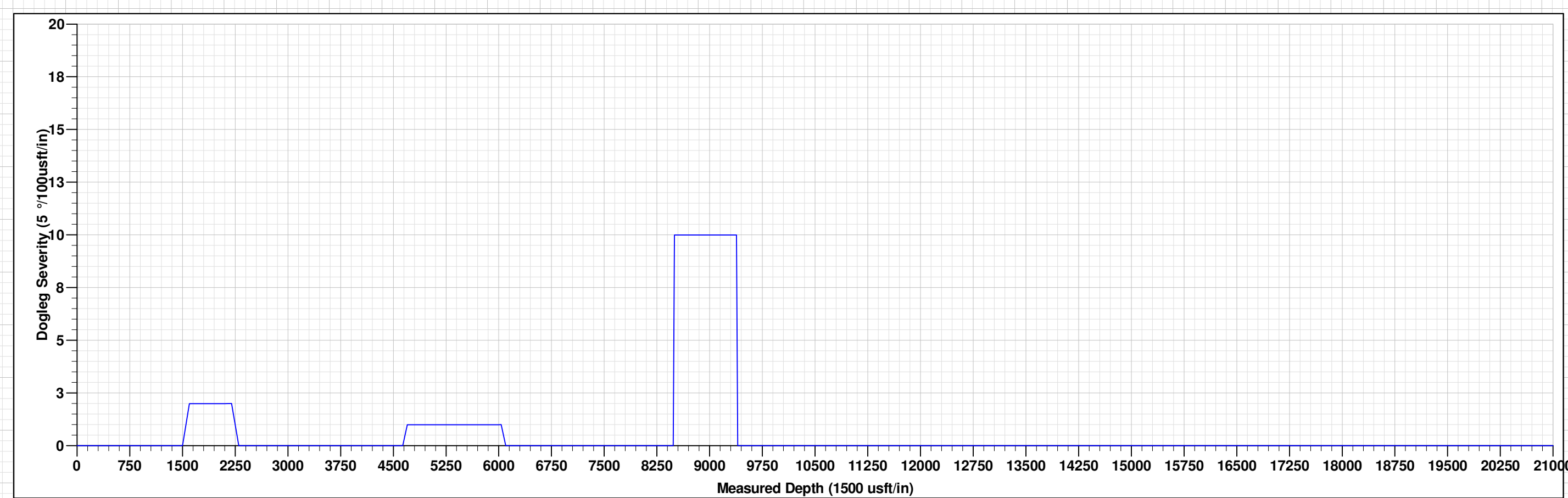
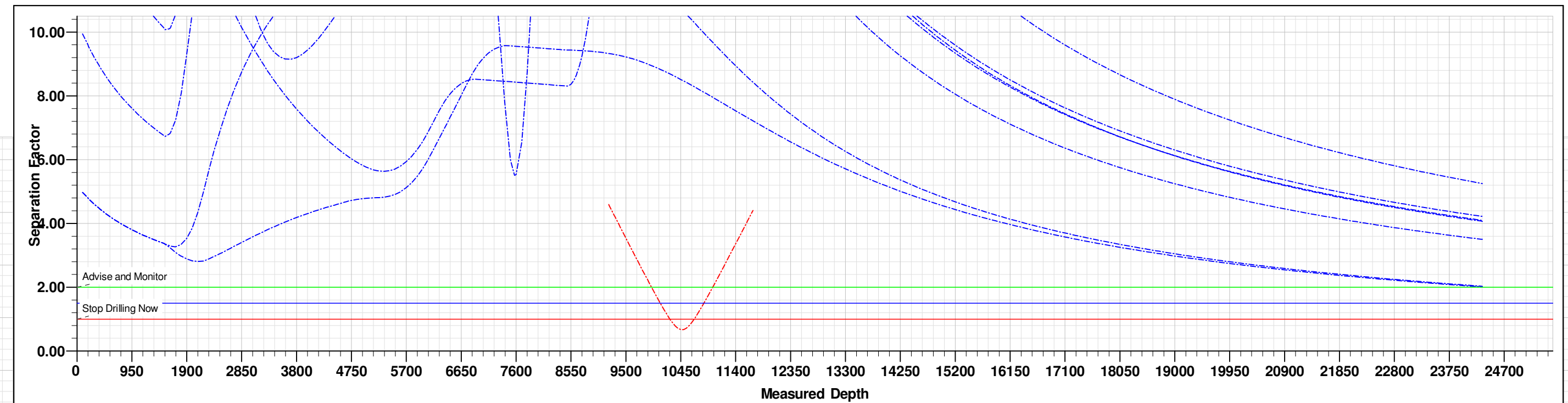
Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #704H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP (FLAMING SNAIL F - plan misses target center by 237.4usft at 8936.7usft MD (8797.6 TVD, 141.0 N, -786.5 E) - Circle (radius 50.0)	0.00	0.00	8,963.0	311.2	-785.1	402,784.90	543,839.70	32° 6' 26.254 N	104° 11' 30.291 W
LTP (FLAMING SNAIL F - plan hits target center - Point	0.00	0.01	8,972.9	-15,071.6	-912.3	387,402.10	543,712.50	32° 3' 54.019 N	104° 11' 32.004 W
PBHL (FLAMING SNAIL - plan hits target center - Rectangle (sides W100.0 H15,513.4 D20.0)	0.04	0.47	8,973.0	-15,201.6	-913.4	387,272.10	543,711.40	32° 3' 52.732 N	104° 11' 32.019 W

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
2,200.1	2,193.2	31.4	-79.1	Start 2434.8 hold at 2200.1 MD
4,634.9	4,555.6	248.5	-626.8	Start Drop -1.00
6,035.2	5,942.0	311.2	-785.1	Start 2448.0 hold at 6035.2 MD
8,483.2	8,390.0	311.2	-785.1	Start DLS 10.00 TFO 180.47
9,382.9	8,963.0	-261.4	-789.8	Start 14810.8 hold at 9382.9 MD
24,193.6	8,972.9	-15,071.6	-912.3	Start 130.0 hold at 24193.6 MD
24,323.6	8,973.0	-15,201.6	-913.4	TD at 24323.6

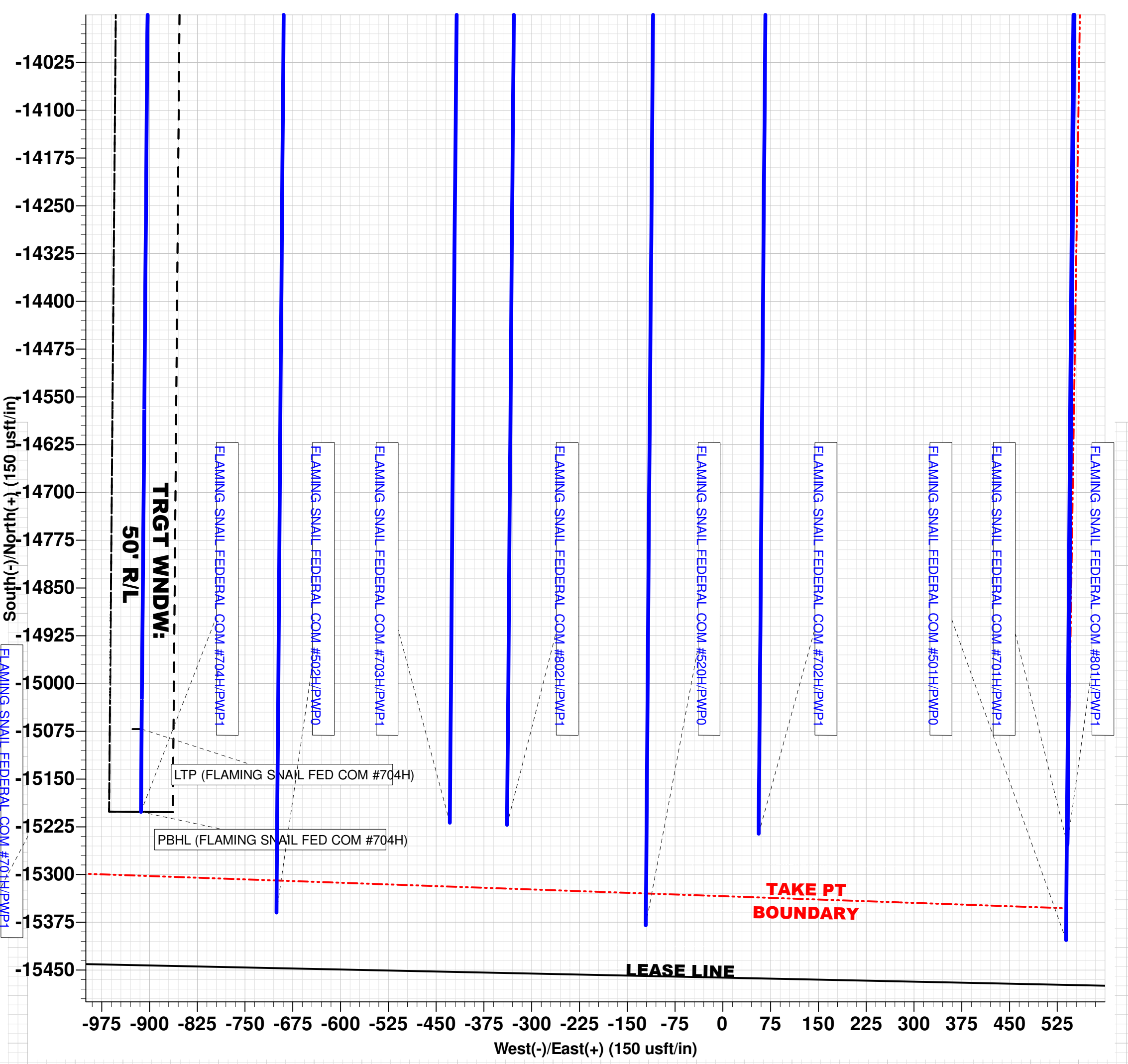
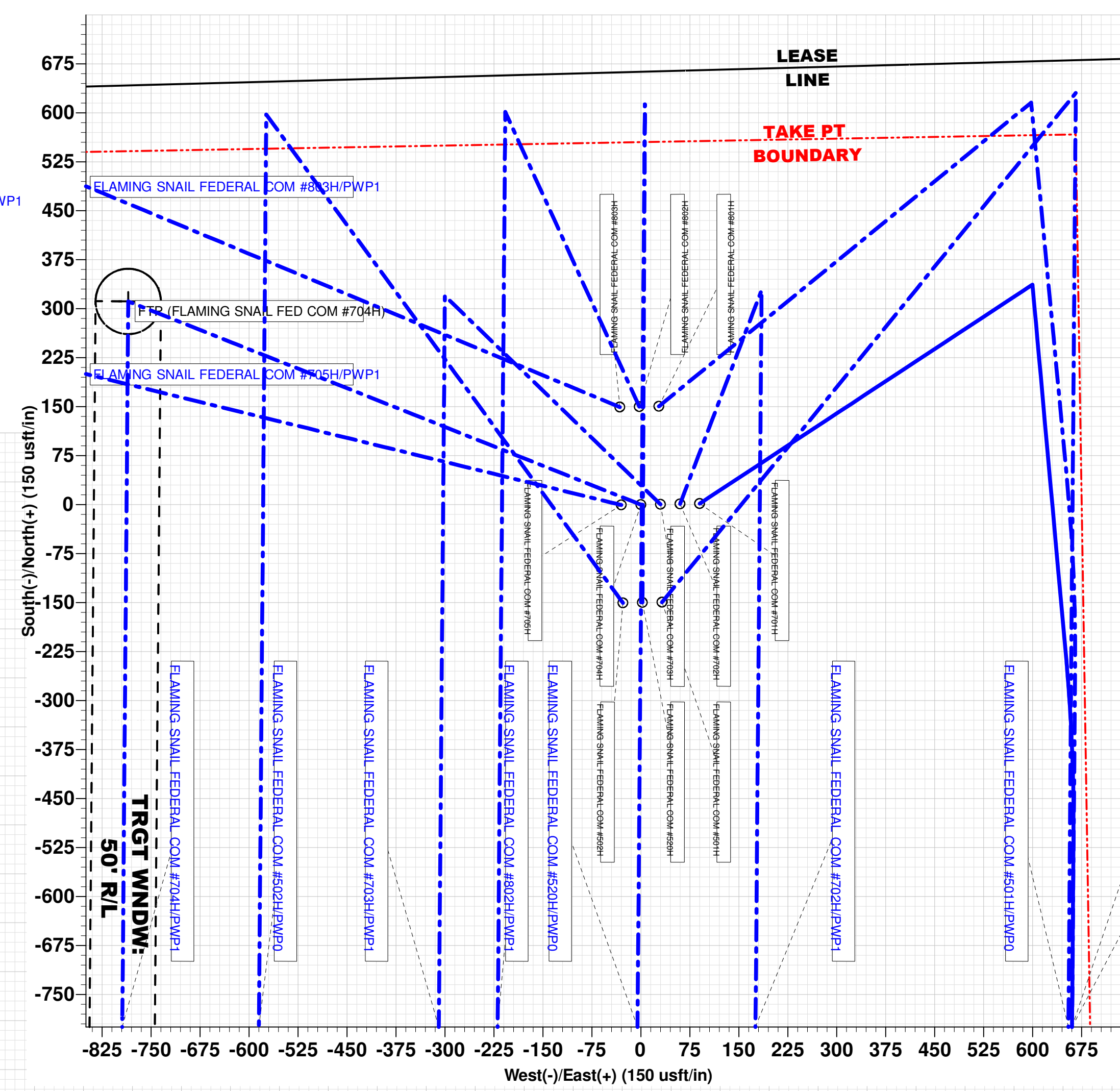
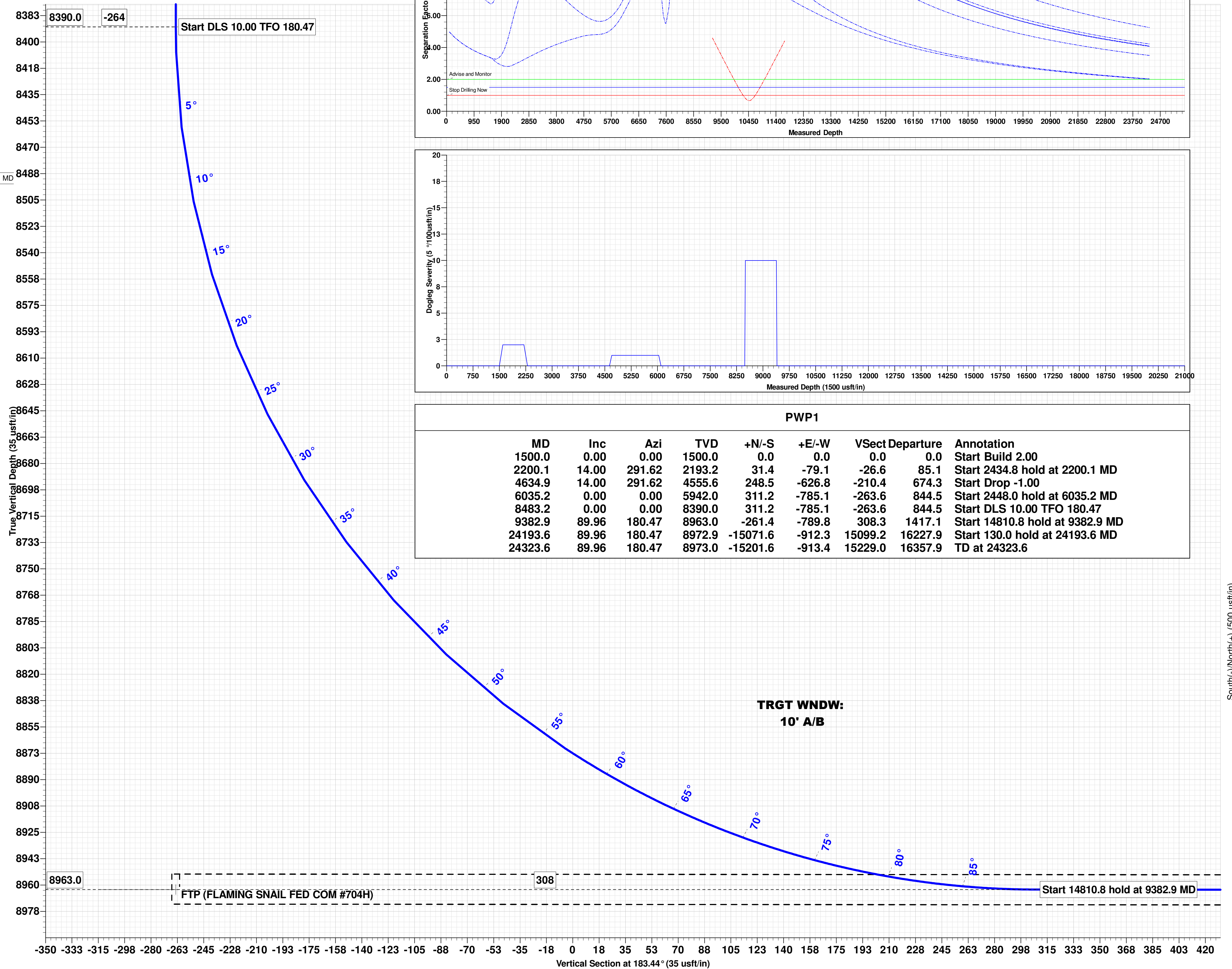
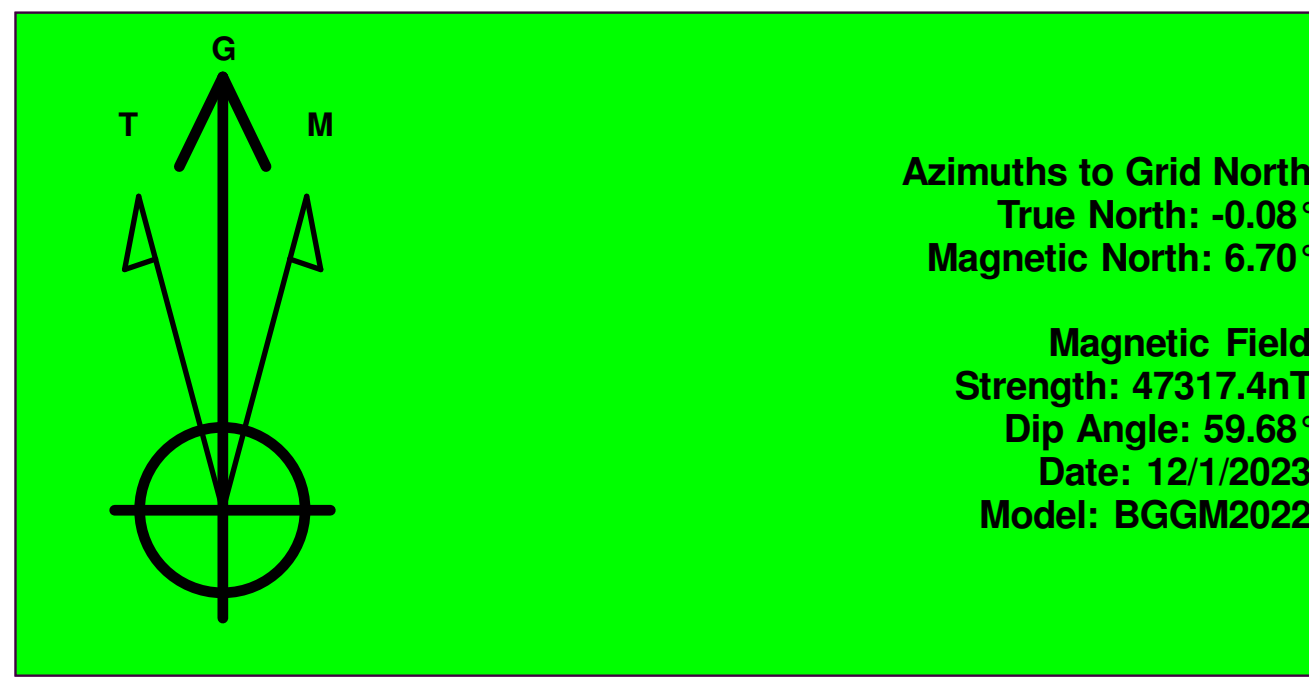
WELL DETAILS: FLAMING SNAIL FEDERAL COM #704H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402473.70	544624.80	32° 6' 23.164 N	104° 11' 21.168 W

DESIGN TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP (FLAMING SNAIL FED COM #704H)	8963.0	311.2	-785.1	402784.90	543839.70	Circle (Radius: 50.0)
LTP (FLAMING SNAIL FED COM #704H)	8972.9	-15071.6	-912.3	387402.10	543712.50	Point
PBHL (FLAMING SNAIL FED COM #704H)	8973.0	-15201.6	-913.4	387272.10	543711.40	Rectangle (Sides: L15513.4 W100.0)

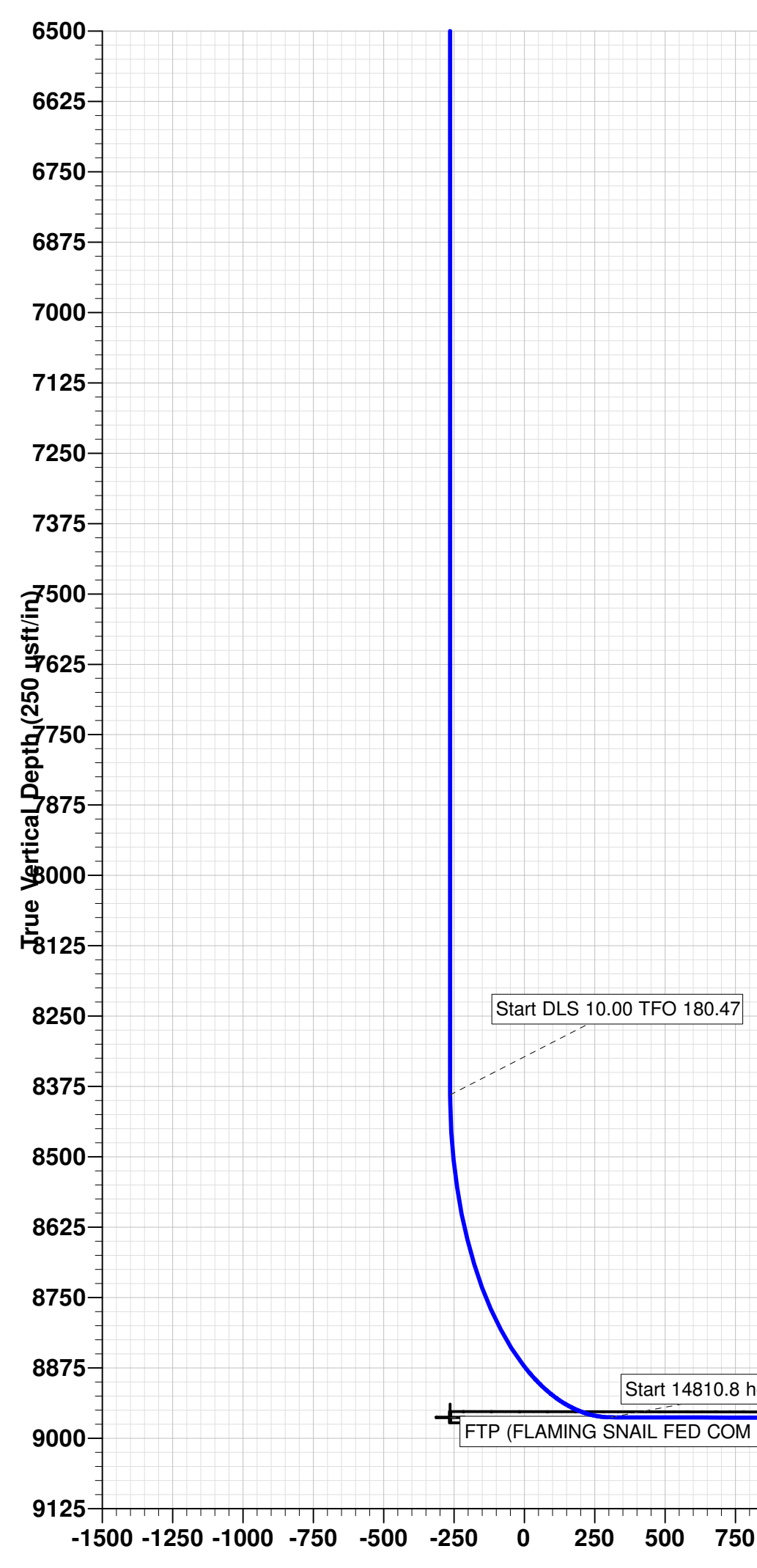
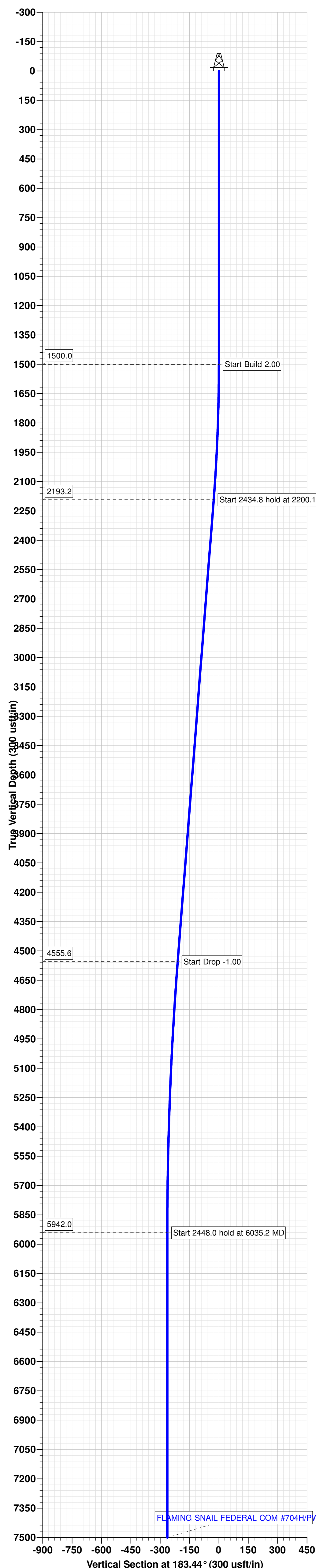
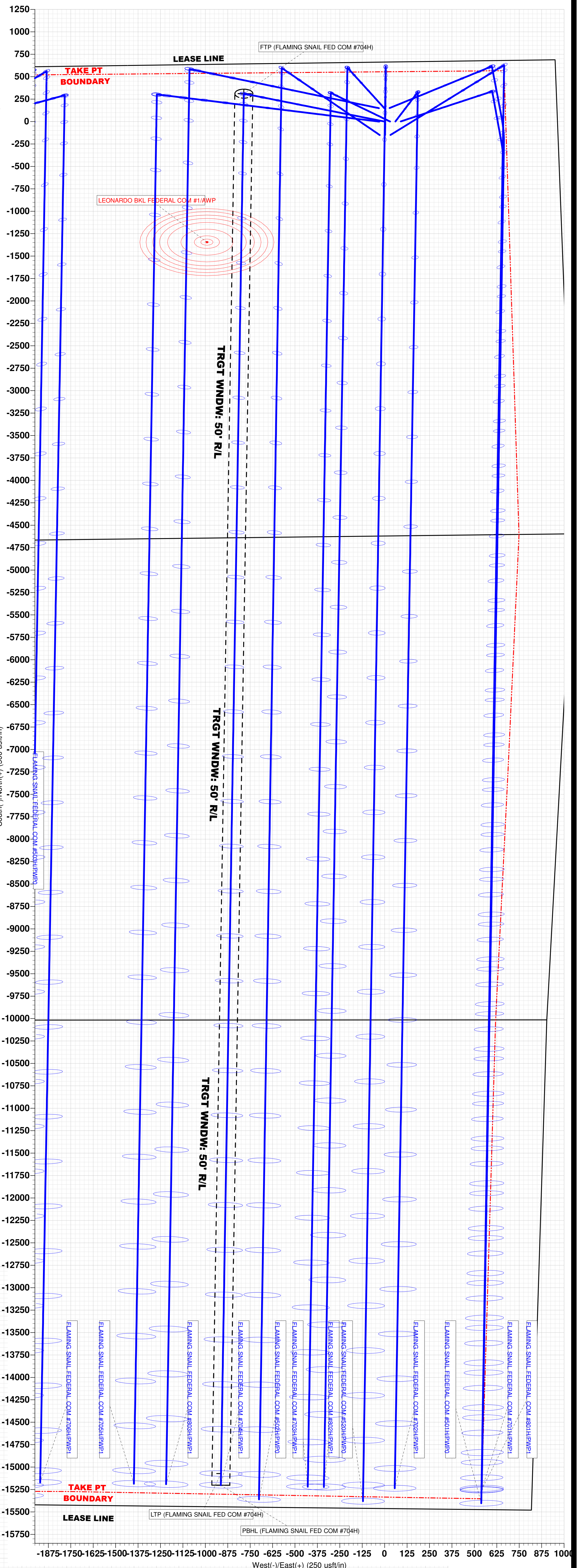


PWP1									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00	
2200.1	14.00	291.62	2193.2	31.4	-79.1	-26.6	85.1	Start 2434.8 hold at 2200.1 MD	
4634.9	14.00	291.62	4555.6	248.5	-626.8	-210.4	674.3	Start Drop -1.00	
6035.2	0.00	0.00	5942.0	311.2	-785.1	-263.6	844.5	Start 2448.0 hold at 6035.2 MD	
8483.2	0.00	0.00	8390.0	311.2	-785.1	-263.6	844.5	Start DLS 10.00 TFO 180.47	
9382.9	89.96	180.47	8963.0	-261.4	-789.8	308.3	1417.1	Start 14810.8 hold at 9382.9 MD	
24193.6	89.96	180.47	8972.9	-15071.6	-912.3	15099.2	16227.9	Start 130.0 hold at 24193.6 MD	
24323.6	89.96	180.47	8973.0	-15201.6	-913.4	15229.0	16357.9	TD at 24323.6	

TRGT WNDW:
10' A/B



TRGT WNDW:
10' A/B



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM92167
LOCATION:	Section 28, T.25 S, R.27 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Flaming Snail Fed Com 704H
SURFACE HOLE FOOTAGE:	655'/N & 1005'/E
BOTTOM HOLE FOOTAGE:	200'/S & 1785'/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 260554

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 260554
	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