

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. NMNM092167Z 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 709H 9. API Well No. 30-015-54155
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 NENW / 757 FNL / 1619 FWL / LAT 32.106156 / LONG -104.198277 At proposed prod. zone SWSW / 200 FSL / 1035 FWL / LAT 32.064894 / LONG -104.200668		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. 45 feet 19. Proposed Depth 8960 feet / 24179 feet 20. BLM/BIA Bond No. in file FED: NMB000215		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3156 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 10/14/2022
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 Office Carlsbad Field Office	Date 08/25/2023

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

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



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NENW / 757 FNL / 1619 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106156 / LONG: -104.198277 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 330 FNL / 1035 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107303 / LONG: -104.200165 (TVD: 8765 feet, MD: 8886 feet)
PPP: NWNW / 1 FNL / 1035 FWL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.093644 / LONG: -104.200327 (TVD: 8943 feet, MD: 13837 feet)
PPP: NWNW / 1 FNL / 1035 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079016 / LONG: -104.200501 (TVD: 8952 feet, MD: 19117 feet)
BHL: SWSW / 200 FSL / 1035 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064894 / LONG: -104.200668 (TVD: 8960 feet, MD: 24179 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- 54155	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 330880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 709H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3154.6'

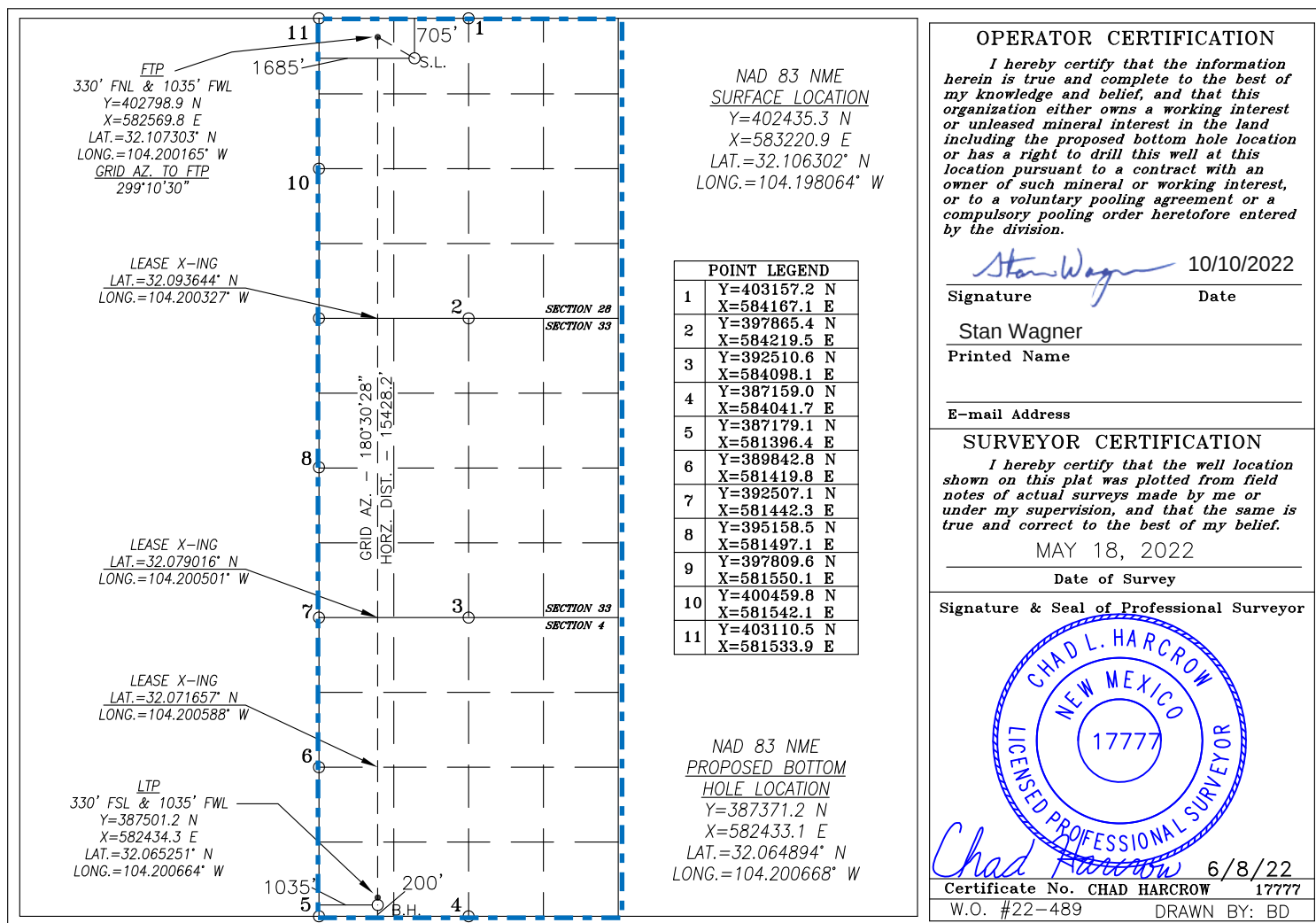
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	28	25-S	27-E		705	NORTH	1685	WEST	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
M	4	26-S	27-E		200	SOUTH	1035	WEST	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: 10/11/2022

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 706H	30-015	C-28-25S-27E	705 FNL & 1775 FWL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 707H	30-015-	C-28-25S-27E	705 FNL & 1745 FWL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 708H	30-015-	C-28-25S-27E	705 FNL & 1715 FWL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 709H	30-015-	C-28-25S-27E	705 FNL & 1685 FWL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 710H	30-015-	C-28-25S-27E	705 FNL & 1655 FWL	± 1600	± 6830	± 5650

IV. Central Delivery Point Name: Flaming Snail Fed Com West CTB NW/4 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

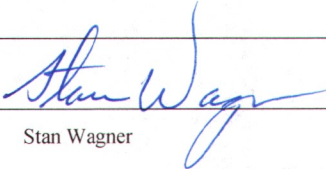
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 709H

1. Geologic Formations

TVD of target	8,960' EOL	Pilot hole depth	NA
MD at TD:	24,202'	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	547	Salt	
Base of Salt	1968	Salt	
Lamar	2139	Salt Water	
Bell Canyon	2208	Salt Water	
Cherry Canyon	2992	Oil/Gas	
Brushy Canyon	4079	Oil/Gas	
Bone Spring Lime	5677	Oil/Gas	
1st Bone Spring Sand	6608	Oil/Gas	
2nd Bone Spring Sand	7137	Oil/Gas	
3rd Bone Spring Sand	8451	Oil/Gas	
Wolfcamp	8780	Oil/Gas	
Wolfcamp A	8866	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	1.40	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	24,202	5.5"	23	P110	W441	2.50	2.95	3.54	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 709H

	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 709H

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
	1547	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 709H

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 709H

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 709H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5825 psi at 8960' 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

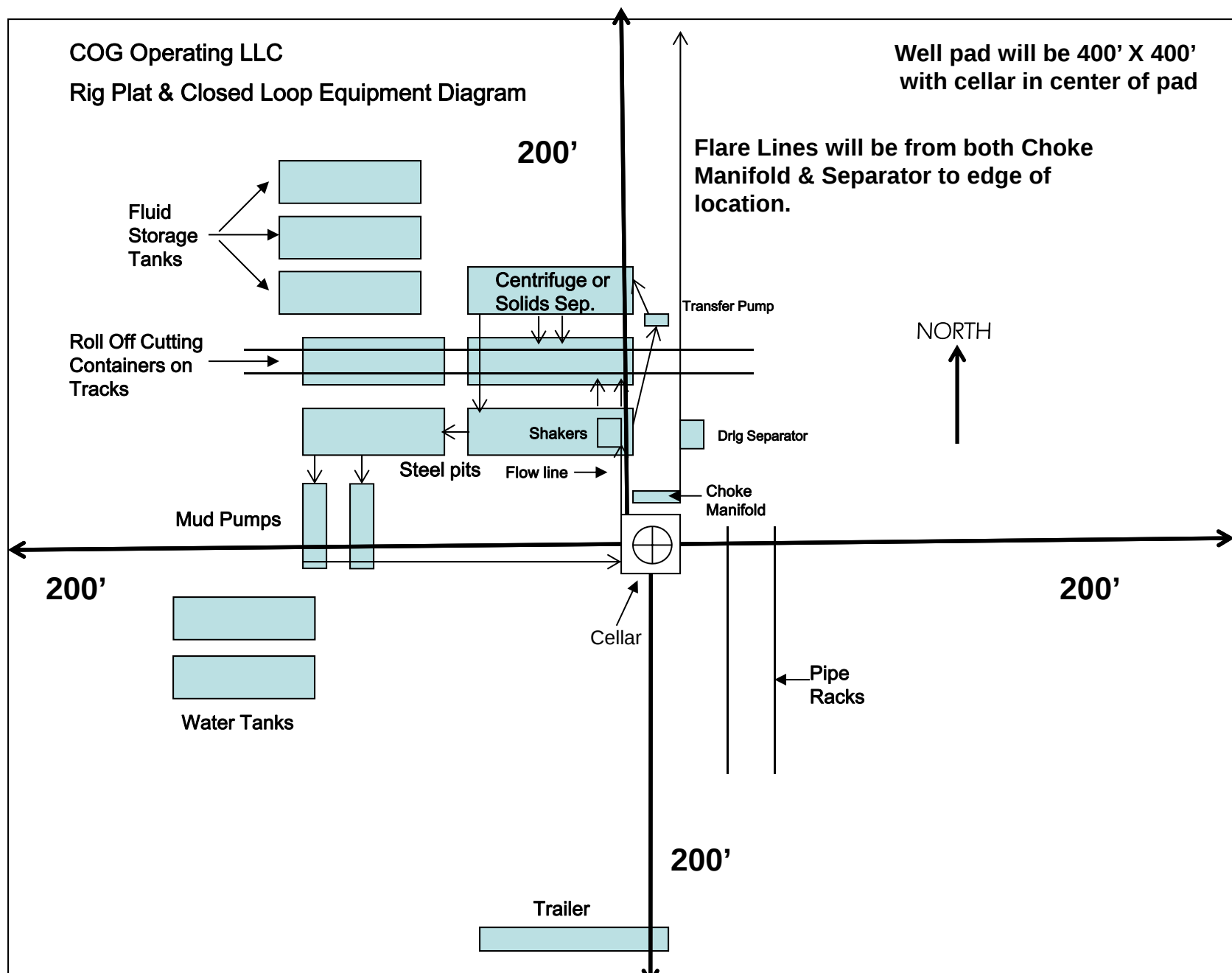


Exhibit 1

"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 #709H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	9/23/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp.-Initilzd Cont. rev.5
1,500.0	8,447.6	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
8,447.6	24,202.6	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						
COTTONBERRY 20 FEDERAL COM #4H - OWB - AWP						Out of range
COTTONWOOD HILLS 32 STATE COM #5H - OWB - AW						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	1,500.0	1,500.7	152.6	144.3	18.512	CC, ES
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	1,710.0	1,710.5	157.7	149.0	18.018	SF
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	7,520.3	7,640.0	16.5	-21.2	0.437	Advise and Monitor, CC, ES,
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	1,500.0	1,501.4	150.0	141.7	18.142	CC
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	1,520.0	1,521.4	150.0	141.7	18.063	ES
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	24,202.6	23,472.8	1,118.1	874.4	4.588	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	1,500.0	1,497.9	90.0	81.1	10.140	CC, ES
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	1,520.0	1,517.4	90.1	81.2	10.079	SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	1,500.0	1,498.6	60.0	51.1	6.759	CC, ES
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,202.6	24,197.9	970.1	733.7	4.104	SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	1,500.0	1,499.3	30.0	21.1	3.379	CC
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	1,520.0	1,519.4	30.0	21.1	3.362	ES
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,202.6	24,170.7	485.0	248.8	2.053	SF
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,437.4	1,437.8	30.0	21.2	3.421	CC
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	1,700.0	1,698.4	30.6	20.8	3.146	ES
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	24,202.6	24,228.7	485.1	246.7	2.035	SF
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	1,506.8	1,502.7	153.4	143.9	16.259	CC
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	1,520.0	1,515.4	153.4	143.9	16.202	ES
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	1,800.0	1,782.1	161.7	151.3	15.582	SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,509.6	1,505.3	150.0	140.5	15.853	CC
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,520.0	1,515.2	150.0	140.5	15.803	ES

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 #805H - OWB - PWP1	24,202.6	25,284.3	903.1	658.1	3.686	SF
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	4,619.0	4,593.2	106.9	75.7	3.434	CC
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	4,655.0	4,629.2	107.1	75.5	3.396	ES
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	4,750.0	4,724.1	109.6	76.9	3.352	SF
LEONARDO BKL FEDERAL COM #1 - OWB - AWP						Out of range
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	6,986.2	6,896.6	546.9	498.4	11.259	CC
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	7,000.0	6,908.1	547.0	498.3	11.247	ES
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	7,100.0	6,969.4	550.2	501.2	11.227	SF
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	3,005.1	2,935.2	1,003.5	980.9	44.496	CC
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	3,100.0	3,027.2	1,003.8	980.7	43.442	ES
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,200.0	7,054.0	1,035.8	992.4	23.853	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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
COTTONBERRY 20 FEDERAL COM #4H - OWB - AWP	24,202.6	11,975.0				Out of Range @TD
COTTONWOOD HILLS 32 STATE COM #5H - OWB - AW	24,202.6	7,034.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	24,202.6	23,268.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	24,202.6	23,196.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	24,202.6	23,165.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	24,202.6	23,086.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,202.6	23,585.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	24,202.6	23,472.8	1,118.1	874.4	4.588	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,202.6	24,263.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,202.6	24,301.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,202.6	24,335.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,202.6	24,278.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,202.6	24,197.9	970.1	733.7	4.104	SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,202.6	24,170.7	485.0	248.8	2.053	SF
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	24,202.6	24,228.7	485.1	246.7	2.035	SF
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,202.6	25,454.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,202.6	25,370.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,202.6	25,416.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,202.6	25,359.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	24,202.6	25,284.3	903.1	658.1	3.686	SF
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	24,202.6	25,329.7	928.6	684.4	3.802	
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	24,202.6	8,909.1				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	24,202.6	6,985.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	24,202.6	7,054.0				Out of Range @TD

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		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	0.7	0.7	3.0	3.0	168.47	-149.5	30.5	152.6							
95.0	95.0	95.7	95.7	3.0	3.0	168.47	-149.5	30.5	152.6	146.6	6.02	25.354				
100.0	100.0	100.7	100.7	3.0	3.0	168.47	-149.5	30.5	152.6	146.6	6.02	25.341				
190.0	190.0	190.7	190.7	3.1	3.0	168.47	-149.5	30.5	152.6	146.4	6.13	24.876				
200.0	200.0	200.7	200.7	3.1	3.0	168.47	-149.5	30.5	152.6	146.4	6.15	24.803				
285.0	285.0	285.7	285.7	3.3	3.0	168.47	-149.5	30.5	152.6	146.3	6.26	24.358				

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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							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)				
300.0	300.0	300.7	300.7	3.3	3.0	168.47	-149.5	30.5	152.6	146.3	6.29	24.270		
380.0	380.0	380.7	380.7	3.4	3.0	168.47	-149.5	30.5	152.6	146.2	6.40	23.853		
400.0	400.0	400.7	400.7	3.4	3.0	168.47	-149.5	30.5	152.6	146.2	6.43	23.742		
475.0	475.0	475.7	475.7	3.5	3.0	168.47	-149.5	30.5	152.6	146.0	6.53	23.356		
500.0	500.0	500.7	500.7	3.5	3.1	168.47	-149.5	30.5	152.6	146.0	6.57	23.221		
570.0	570.0	570.7	570.7	3.6	3.1	168.47	-149.5	30.5	152.6	145.9	6.67	22.865		
600.0	600.0	600.7	600.7	3.6	3.1	168.47	-149.5	30.5	152.6	145.9	6.72	22.708		
665.0	665.0	665.7	665.7	3.7	3.1	168.47	-149.5	30.5	152.6	145.8	6.82	22.381		
700.0	700.0	700.7	700.7	3.8	3.1	168.47	-149.5	30.5	152.6	145.7	6.87	22.202		
760.0	760.0	760.7	760.7	3.8	3.1	168.47	-149.5	30.5	152.6	145.6	6.97	21.905		
800.0	800.0	800.7	800.7	3.9	3.2	168.47	-149.5	30.5	152.6	145.5	7.03	21.705		
855.0	855.0	855.7	855.7	4.0	3.2	168.47	-149.5	30.5	152.6	145.5	7.12	21.437		
900.0	900.0	900.7	900.7	4.0	3.2	168.47	-149.5	30.5	152.6	145.4	7.19	21.217		
950.0	950.0	950.7	950.7	4.1	3.2	168.47	-149.5	30.5	152.6	145.3	7.27	20.978		
1,000.0	1,000.0	1,000.7	1,000.7	4.1	3.2	168.47	-149.5	30.5	152.6	145.2	7.36	20.739		
1,045.0	1,045.0	1,045.7	1,045.7	4.2	3.3	168.47	-149.5	30.5	152.6	145.1	7.43	20.528		
1,100.0	1,100.0	1,100.7	1,100.7	4.2	3.3	168.47	-149.5	30.5	152.6	145.1	7.53	20.271		
1,140.0	1,140.0	1,140.7	1,140.7	4.3	3.3	168.47	-149.5	30.5	152.6	145.0	7.60	20.088		
1,200.0	1,200.0	1,200.7	1,200.7	4.4	3.4	168.47	-149.5	30.5	152.6	144.9	7.70	19.814		
1,235.0	1,235.0	1,235.7	1,235.7	4.4	3.4	168.47	-149.5	30.5	152.6	144.8	7.76	19.658		
1,300.0	1,300.0	1,300.7	1,300.7	4.5	3.4	168.47	-149.5	30.5	152.6	144.7	7.88	19.369		
1,330.0	1,330.0	1,330.7	1,330.7	4.5	3.4	168.47	-149.5	30.5	152.6	144.6	7.93	19.238		
1,400.0	1,400.0	1,400.7	1,400.7	4.6	3.5	168.47	-149.5	30.5	152.6	144.5	8.06	18.934		
1,425.0	1,425.0	1,425.7	1,425.7	4.6	3.5	168.47	-149.5	30.5	152.6	144.5	8.10	18.828		
1,500.0	1,500.0	1,500.7	1,500.7	4.7	3.5	168.47	-149.5	30.5	152.6	144.3	8.24	18.512	CC, ES	
1,520.0	1,520.0	1,520.7	1,520.7	4.7	3.6	-130.72	-149.5	30.5	152.6	144.3	8.28	18.431		
1,600.0	1,600.0	1,600.7	1,600.7	4.9	3.6	-131.18	-149.5	30.5	153.7	145.3	8.45	18.188		
1,615.0	1,615.0	1,615.7	1,615.7	4.9	3.6	-131.33	-149.5	30.5	154.1	145.6	8.49	18.146		
1,700.0	1,699.8	1,700.5	1,700.5	5.1	3.7	-132.56	-149.5	30.5	157.2	148.5	8.72	18.020		
1,710.0	1,709.8	1,710.5	1,710.5	5.1	3.7	-132.75	-149.5	30.5	157.7	149.0	8.75	18.018	SF	
1,800.0	1,799.5	1,800.2	1,800.2	5.3	3.8	-134.73	-149.5	30.5	163.2	154.2	9.01	18.117		
1,805.0	1,804.4	1,805.1	1,805.1	5.3	3.8	-134.85	-149.5	30.5	163.6	154.6	9.03	18.128		
1,900.0	1,898.7	1,899.4	1,899.4	5.6	3.9	-137.48	-149.5	30.5	172.1	162.7	9.32	18.467		
1,995.0	1,992.5	1,993.2	1,993.2	5.9	3.9	-140.45	-149.5	30.5	183.3	173.6	9.63	19.027		
2,000.0	1,997.5	1,998.2	1,998.2	5.9	3.9	-140.61	-149.5	30.5	183.9	174.3	9.65	19.062		
2,090.0	2,085.8	2,089.1	2,089.1	6.2	4.1	-144.02	-148.4	31.4	196.9	186.9	10.04	19.614		
2,100.0	2,095.6	2,099.2	2,099.2	6.3	4.1	-144.44	-148.2	31.6	198.4	188.4	10.08	19.690		
2,185.0	2,178.5	2,184.1	2,184.0	6.6	4.4	-148.33	-145.0	34.3	212.7	202.2	10.51	20.232		
2,200.1	2,193.1	2,199.1	2,198.9	6.6	4.4	-149.06	-144.2	34.9	215.5	204.9	10.59	20.342		
2,280.0	2,270.7	2,277.9	2,277.5	6.9	4.6	-153.09	-139.1	39.1	230.5	219.6	10.97	21.014		
2,300.0	2,290.1	2,297.6	2,297.0	6.9	4.7	-154.09	-137.6	40.4	234.4	223.3	11.06	21.181		
2,375.0	2,362.9	2,370.8	2,369.8	7.2	4.9	-157.83	-131.1	45.8	249.1	237.7	11.42	21.804		
2,400.0	2,387.1	2,395.1	2,393.9	7.3	5.0	-159.06	-128.6	47.9	254.1	242.6	11.54	22.014		
2,470.0	2,455.0	2,462.7	2,460.7	7.5	5.2	-162.48	-120.8	54.4	268.7	256.8	11.89	22.608		
2,500.0	2,484.1	2,491.5	2,489.0	7.6	5.3	-163.93	-117.2	57.4	275.2	263.2	12.03	22.870		
2,565.0	2,547.2	2,553.3	2,549.9	7.8	5.6	-167.03	-108.6	64.6	289.7	277.4	12.36	23.448		
2,600.0	2,581.2	2,586.4	2,582.3	8.0	5.7	-168.67	-103.5	68.8	297.9	285.3	12.53	23.772		
2,660.0	2,639.4	2,642.6	2,637.2	8.2	5.9	-171.42	-94.4	76.4	312.4	299.6	12.84	24.339		
2,700.0	2,678.2	2,679.7	2,673.4	8.4	6.1	-173.22	-87.8	81.9	322.5	309.5	13.04	24.734		
2,755.0	2,731.6	2,730.4	2,722.5	8.6	6.2	-175.64	-78.3	89.8	337.0	323.7	13.29	25.352		
2,800.0	2,775.2	2,772.2	2,763.0	8.7	6.3	-177.55	-70.3	96.5	349.3	335.8	13.51	25.854		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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						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		
2,850.0	2,823.7	2,818.6	2,807.9	8.9	6.5	-179.52	-61.4	103.9	363.4	349.6	13.77	26.392		
2,900.0	2,872.3	2,865.0	2,852.8	9.1	6.7	178.65	-52.4	111.3	377.9	363.8	14.04	26.904		
2,945.0	2,915.9	2,906.8	2,893.3	9.3	6.8	177.12	-44.4	118.0	391.2	376.9	14.30	27.358		
3,000.0	2,969.3	2,957.8	2,942.7	9.5	7.0	175.37	-34.6	126.2	407.8	393.2	14.61	27.908		
3,040.0	3,008.1	2,995.0	2,978.6	9.7	7.1	174.19	-27.4	132.2	420.1	405.3	14.85	28.298		
3,100.0	3,066.3	3,050.6	3,032.6	9.9	7.3	172.53	-16.7	141.1	438.9	423.7	15.20	28.874		
3,135.0	3,100.3	3,083.1	3,064.0	10.1	7.5	171.62	-10.5	146.3	450.0	434.6	15.41	29.201		
3,200.0	3,163.3	3,143.5	3,122.4	10.4	7.7	170.04	1.2	156.0	470.9	455.1	15.80	29.794		
3,230.0	3,192.5	3,171.3	3,149.4	10.5	7.8	169.36	6.5	160.4	480.6	464.6	15.99	30.059		
3,300.0	3,260.4	3,236.3	3,212.3	10.8	8.1	167.87	19.0	170.8	503.6	487.1	16.42	30.661		
3,325.0	3,284.6	3,259.5	3,234.7	10.9	8.2	167.37	23.5	174.5	511.8	495.2	16.58	30.869		
3,400.0	3,357.4	3,329.1	3,302.1	11.2	8.5	165.96	36.9	185.7	536.8	519.8	17.06	31.476		
3,420.0	3,376.8	3,347.7	3,320.1	11.3	8.5	165.60	40.4	188.7	543.5	526.4	17.18	31.632		
3,500.0	3,454.4	3,421.9	3,392.0	11.7	8.8	164.26	54.7	200.6	570.6	552.9	17.70	32.238		
3,515.0	3,469.0	3,435.9	3,405.5	11.7	8.9	164.02	57.4	202.8	575.7	557.9	17.80	32.348		
3,600.0	3,551.5	3,514.8	3,481.9	12.1	9.2	162.75	72.6	215.5	604.8	586.4	18.35	32.950		
3,610.0	3,561.2	3,524.0	3,490.9	12.1	9.3	162.61	74.4	216.9	608.2	589.8	18.42	33.018		
3,700.0	3,648.5	3,607.6	3,571.7	12.5	9.6	161.40	90.5	230.3	639.3	620.2	19.02	33.614		
3,705.0	3,653.3	3,612.2	3,576.2	12.6	9.7	161.34	91.4	231.1	641.0	621.9	19.05	33.646		
3,800.0	3,745.5	3,700.4	3,661.6	13.0	10.0	160.18	108.3	245.2	674.1	654.4	19.69	34.234		
3,895.0	3,837.7	3,788.6	3,747.0	13.4	10.4	159.14	125.3	259.3	707.3	687.0	20.33	34.785		
3,900.0	3,842.5	3,793.2	3,751.5	13.4	10.5	159.09	126.2	260.1	709.1	688.7	20.37	34.813		
3,990.0	3,929.9	3,876.8	3,832.3	13.8	10.8	158.19	142.3	273.5	740.8	719.8	20.99	35.300		
4,000.0	3,939.6	3,886.0	3,841.3	13.9	10.9	158.09	144.1	275.0	744.3	723.3	21.05	35.353		
4,085.0	4,022.0	3,964.9	3,917.7	14.3	11.2	157.32	159.2	287.6	774.4	752.8	21.64	35.784		
4,100.0	4,036.6	3,978.9	3,931.2	14.3	11.3	157.18	161.9	289.8	779.8	758.0	21.75	35.857		
4,180.0	4,114.2	4,053.1	4,003.1	14.7	11.6	156.52	176.2	301.7	808.2	785.9	22.30	36.237		
4,200.0	4,133.6	4,071.7	4,021.1	14.8	11.7	156.36	179.8	304.7	815.4	792.9	22.44	36.329		
4,275.0	4,206.4	4,141.3	4,088.5	15.2	12.0	155.78	193.2	315.9	842.1	819.2	22.97	36.663		
4,300.0	4,230.7	4,164.5	4,110.9	15.3	12.1	155.60	197.6	319.6	851.1	827.9	23.15	36.771		
4,370.0	4,298.6	4,229.5	4,173.8	15.6	12.4	155.10	210.1	330.0	876.2	852.5	23.64	37.064		
4,400.0	4,327.7	4,257.3	4,200.8	15.7	12.6	154.90	215.5	334.5	886.9	863.1	23.85	37.186		
4,465.0	4,390.8	4,317.7	4,259.2	16.0	12.8	154.47	227.1	344.1	910.3	886.0	24.31	37.441		
4,500.0	4,424.7	4,350.1	4,290.6	16.2	13.0	154.25	233.4	349.3	922.9	898.3	24.56	37.575		
4,560.0	4,482.9	4,405.8	4,344.6	16.5	13.2	153.89	244.1	358.3	944.5	919.5	24.98	37.807		
4,578.5	4,500.9	4,423.0	4,361.2	16.5	13.3	153.78	247.4	361.0	951.2	926.0	25.11	37.877		
4,600.0	4,521.8	4,443.0	4,380.5	16.6	13.4	153.72	251.2	364.2	958.9	933.6	25.26	37.963		
4,655.0	4,575.3	4,494.3	4,430.2	16.9	13.7	153.57	261.1	372.4	977.9	952.3	25.66	38.111		
4,700.0	4,619.4	4,536.5	4,471.0	17.1	13.9	153.42	269.2	379.2	992.9	966.9	25.99	38.201		
4,750.0	4,668.4	4,583.5	4,516.6	17.4	14.1	153.24	278.3	386.7	1,008.9	982.5	26.35	38.282		
4,800.0	4,717.7	4,630.8	4,562.3	17.6	14.3	153.05	287.4	394.3	1,024.1	997.4	26.72	38.331		
4,845.0	4,762.1	4,673.5	4,603.7	17.8	14.5	152.85	295.6	401.1	1,037.2	1,010.2	27.04	38.360		
4,900.0	4,816.5	4,725.8	4,654.4	18.0	14.7	152.59	305.7	409.5	1,052.5	1,025.1	27.43	38.365		
4,940.0	4,856.2	4,764.0	4,691.3	18.2	14.9	152.39	313.0	415.7	1,063.1	1,035.4	27.71	38.359		
5,000.0	4,915.9	4,821.5	4,747.0	18.5	15.2	152.07	324.1	424.9	1,078.1	1,049.9	28.14	38.318		
5,035.0	4,950.7	4,855.1	4,779.5	18.6	15.4	151.86	330.5	430.2	1,086.4	1,058.0	28.37	38.289		
5,100.0	5,015.6	4,917.6	4,840.0	18.9	15.6	151.46	342.6	440.3	1,100.9	1,072.0	28.82	38.204		
5,130.0	5,045.5	4,946.5	4,868.0	19.0	15.8	151.27	348.1	444.9	1,107.2	1,078.1	29.01	38.167		
5,200.0	5,115.4	5,014.1	4,933.5	19.2	16.1	150.79	361.1	455.7	1,120.9	1,091.4	29.46	38.047		
5,225.0	5,140.4	5,038.3	4,956.9	19.3	16.2	150.60	365.8	459.6	1,125.5	1,095.9	29.58	38.044		
5,278.6	5,194.0	5,090.1	5,007.0	19.3	16.5	89.37	375.8	467.9	1,134.7	1,104.9	29.85	38.018		

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
5,300.0	5,215.4	5,110.9	5,027.1	19.3	16.6	89.17	379.8	471.2	1,138.3	1,108.3	29.93	38.037
5,320.0	5,235.4	5,130.2	5,045.9	19.4	16.7	88.98	383.5	474.3	1,141.6	1,111.6	30.01	38.044
5,400.0	5,315.4	5,207.7	5,120.9	19.4	17.0	88.24	398.4	486.8	1,155.0	1,124.7	30.34	38.072
5,415.0	5,330.4	5,222.2	5,134.9	19.4	17.1	88.11	401.2	489.1	1,157.6	1,127.2	30.40	38.078
5,500.0	5,415.4	5,304.5	5,214.6	19.4	17.5	87.34	417.0	502.3	1,172.1	1,141.3	30.76	38.107
5,510.0	5,425.4	5,314.2	5,224.0	19.4	17.5	87.25	418.9	503.8	1,173.8	1,143.0	30.80	38.110
5,600.0	5,515.4	5,401.3	5,308.3	19.5	17.9	86.47	435.7	517.8	1,189.4	1,158.2	31.18	38.140
5,605.0	5,520.4	5,406.1	5,313.0	19.5	18.0	86.42	436.6	518.6	1,190.3	1,159.1	31.21	38.142
5,700.0	5,615.4	5,498.1	5,402.0	19.5	18.4	85.62	454.3	533.3	1,207.0	1,175.4	31.62	38.173
5,795.0	5,710.4	5,590.1	5,491.1	19.6	18.9	84.83	472.0	548.0	1,224.0	1,191.9	32.04	38.202
5,800.0	5,715.4	5,594.9	5,495.8	19.6	18.9	84.79	472.9	548.8	1,224.9	1,192.8	32.06	38.204
5,890.0	5,805.4	5,682.1	5,580.1	19.6	19.3	84.07	489.7	562.8	1,241.2	1,208.7	32.46	38.231
5,900.0	5,815.4	5,691.7	5,589.5	19.6	19.3	83.99	491.5	564.3	1,243.0	1,210.5	32.51	38.234
5,985.0	5,900.4	5,774.0	5,669.2	19.7	19.7	83.32	507.4	577.5	1,258.6	1,225.7	32.90	38.259
6,000.0	5,915.4	5,788.6	5,683.2	19.7	19.8	83.20	510.2	579.8	1,261.3	1,228.4	32.96	38.263
6,080.0	5,995.4	5,866.0	5,758.2	19.7	20.2	82.60	525.1	592.3	1,276.2	1,242.8	33.33	38.286
6,100.0	6,015.4	5,885.4	5,777.0	19.7	20.3	82.45	528.8	595.4	1,279.9	1,246.5	33.43	38.292
6,175.0	6,090.4	5,958.0	5,847.3	19.7	20.6	81.89	542.8	607.0	1,294.0	1,260.2	33.77	38.312
6,200.0	6,115.4	5,982.2	5,870.7	19.8	20.7	81.71	547.4	610.9	1,298.7	1,264.8	33.89	38.319
6,270.0	6,185.4	6,050.0	5,936.3	19.8	21.1	81.20	560.5	621.7	1,312.0	1,277.8	34.22	38.338
6,300.0	6,215.4	6,079.0	5,964.4	19.8	21.2	80.99	566.1	626.4	1,317.7	1,283.3	34.36	38.346

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Distance				
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W		Between	Between	Minimum	Separation	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)		Centres	Ellipses	Separation	Factor	
										(usft)	(usft)	(usft)		
0.0	0.0	1.6	1.6	3.0	3.0	-168.91	-150.5	-29.5		153.4				
95.0	95.0	96.6	96.6	3.0	3.0	-168.91	-150.5	-29.5		153.4	147.3	6.02	25.484	
100.0	100.0	101.6	101.6	3.0	3.0	-168.91	-150.5	-29.5		153.4	147.3	6.02	25.471	
190.0	190.0	191.6	191.6	3.1	3.0	-168.91	-150.5	-29.5		153.4	147.2	6.13	25.004	
200.0	200.0	201.6	201.6	3.1	3.0	-168.91	-150.5	-29.5		153.4	147.2	6.15	24.930	
285.0	285.0	286.6	286.6	3.3	3.0	-168.91	-150.5	-29.5		153.4	147.1	6.26	24.483	
300.0	300.0	301.6	301.6	3.3	3.0	-168.91	-150.5	-29.5		153.4	147.1	6.29	24.394	
380.0	380.0	381.6	381.6	3.4	3.0	-168.91	-150.5	-29.5		153.4	147.0	6.40	23.975	
400.0	400.0	401.6	401.6	3.4	3.0	-168.91	-150.5	-29.5		153.4	146.9	6.43	23.863	
475.0	475.0	476.6	476.6	3.5	3.0	-168.91	-150.5	-29.5		153.4	146.8	6.53	23.474	
500.0	500.0	501.6	501.6	3.5	3.1	-168.91	-150.5	-29.5		153.4	146.8	6.57	23.339	
570.0	570.0	571.6	571.6	3.6	3.1	-168.91	-150.5	-29.5		153.4	146.7	6.67	22.981	
600.0	600.0	601.6	601.6	3.6	3.1	-168.91	-150.5	-29.5		153.4	146.6	6.72	22.823	
665.0	665.0	666.6	666.6	3.7	3.1	-168.91	-150.5	-29.5		153.4	146.5	6.82	22.494	
700.0	700.0	701.6	701.6	3.8	3.1	-168.91	-150.5	-29.5		153.4	146.5	6.87	22.314	
760.0	760.0	761.6	761.6	3.8	3.1	-168.91	-150.5	-29.5		153.4	146.4	6.97	22.015	
800.0	800.0	801.6	801.6	3.9	3.2	-168.91	-150.5	-29.5		153.4	146.3	7.03	21.813	
855.0	855.0	856.6	856.6	4.0	3.2	-168.91	-150.5	-29.5		153.4	146.2	7.12	21.544	
900.0	900.0	901.6	901.6	4.0	3.2	-168.91	-150.5	-29.5		153.4	146.2	7.19	21.323	
950.0	950.0	951.6	951.6	4.1	3.2	-168.91	-150.5	-29.5		153.4	146.1	7.27	21.082	
1,000.0	1,000.0	1,001.6	1,001.6	4.1	3.2	-168.91	-150.5	-29.5		153.4	146.0	7.36	20.842	
1,045.0	1,045.0	1,046.6	1,046.6	4.2	3.3	-168.91	-150.5	-29.5		153.4	145.9	7.43	20.630	
1,100.0	1,100.0	1,101.6	1,101.6	4.2	3.3	-168.91	-150.5	-29.5		153.4	145.8	7.53	20.371	
1,140.0	1,140.0	1,141.6	1,141.6	4.3	3.3	-168.91	-150.5	-29.5		153.4	145.8	7.60	20.187	
1,200.0	1,200.0	1,201.6	1,201.6	4.4	3.4	-168.91	-150.5	-29.5		153.4	145.7	7.70	19.911	
1,235.0	1,235.0	1,236.6	1,236.6	4.4	3.4	-168.91	-150.5	-29.5		153.4	145.6	7.76	19.754	
1,300.0	1,300.0	1,301.6	1,301.6	4.5	3.4	-168.91	-150.5	-29.5		153.4	145.5	7.88	19.463	
1,330.0	1,330.0	1,331.6	1,331.6	4.5	3.4	-168.91	-150.5	-29.5		153.4	145.4	7.93	19.332	
1,400.0	1,400.0	1,401.6	1,401.6	4.6	3.5	-168.91	-150.5	-29.5		153.4	145.3	8.06	19.026	
1,425.0	1,425.0	1,426.6	1,426.6	4.6	3.5	-168.91	-150.5	-29.5		153.4	145.3	8.11	18.920	
1,500.0	1,500.0	1,501.6	1,501.6	4.7	3.5	-168.91	-150.5	-29.5		153.4	145.1	8.24	18.602	
1,520.0	1,520.0	1,521.6	1,521.6	4.7	3.6	-108.11	-150.5	-29.5		153.4	145.1	8.28	18.520	
1,600.0	1,600.0	1,601.6	1,601.6	4.9	3.6	-108.69	-150.5	-29.5		153.9	145.5	8.42	18.270	
1,615.0	1,615.0	1,616.6	1,616.6	4.9	3.6	-108.89	-150.5	-29.5		154.1	145.6	8.46	18.212	
1,700.0	1,699.8	1,701.4	1,701.4	5.1	3.7	-110.48	-150.5	-29.5		155.7	147.0	8.67	17.948	
1,710.0	1,709.8	1,711.4	1,711.4	5.1	3.7	-110.72	-150.5	-29.5		155.9	147.2	8.70	17.924	
1,800.0	1,799.5	1,801.1	1,801.1	5.3	3.8	-113.36	-150.5	-29.5		158.9	150.0	8.94	17.780	
1,805.0	1,804.4	1,806.0	1,806.0	5.3	3.8	-113.52	-150.5	-29.5		159.1	150.2	8.95	17.776	
1,900.0	1,898.7	1,900.3	1,900.3	5.6	3.9	-117.15	-150.5	-29.5		164.2	154.9	9.23	17.792	
1,995.0	1,992.5	1,994.1	1,994.1	5.9	3.9	-121.38	-150.5	-29.5		171.5	161.9	9.53	17.996	
2,000.0	1,997.5	1,999.1	1,999.1	5.9	3.9	-121.62	-150.5	-29.5		171.9	162.4	9.55	18.012	
2,090.0	2,085.8	2,092.5	2,092.5	6.2	4.1	-126.03	-149.3	-30.4		180.3	170.3	9.98	18.057	
2,100.0	2,095.6	2,103.0	2,102.9	6.3	4.2	-126.51	-149.0	-30.6		181.2	171.2	10.04	18.053	
2,185.0	2,178.5	2,191.7	2,191.6	6.6	4.4	-130.56	-145.3	-33.3		189.2	178.7	10.55	17.934	
2,200.1	2,193.1	2,207.5	2,207.4	6.6	4.5	-131.27	-144.4	-33.9		190.7	180.0	10.65	17.908	
2,280.0	2,270.7	2,291.6	2,291.1	6.9	4.7	-134.87	-138.5	-38.3		197.6	186.5	11.15	17.729	
2,300.0	2,290.1	2,312.7	2,312.1	6.9	4.8	-135.70	-136.8	-39.6		199.1	187.8	11.28	17.659	
2,375.0	2,362.9	2,392.3	2,391.0	7.2	5.0	-138.58	-128.9	-45.4		203.8	192.0	11.77	17.308	
2,400.0	2,387.1	2,418.9	2,417.4	7.3	5.1	-139.47	-125.9	-47.6		205.0	193.1	11.95	17.162	
2,470.0	2,455.0	2,493.6	2,491.1	7.5	5.4	-141.83	-116.3	-54.6		207.5	195.0	12.44	16.673	
2,500.0	2,484.1	2,525.7	2,522.7	7.6	5.5	-142.79	-111.7	-58.0		208.1	195.4	12.66	16.433	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-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)			
2,565.0	2,547.2	2,595.2	2,591.0	7.8	5.8	-144.78	-100.8	-66.0	208.4	195.3	13.15	15.849		
2,600.0	2,581.2	2,632.7	2,627.6	8.0	5.9	-145.82	-94.4	-70.7	208.1	194.6	13.42	15.504		
2,660.0	2,639.4	2,697.0	2,690.2	8.2	6.1	-147.56	-82.5	-79.4	206.5	192.6	13.89	14.865		
2,700.0	2,678.2	2,737.0	2,729.0	8.4	6.3	-148.63	-74.7	-85.1	205.1	190.9	14.19	14.450		
2,755.0	2,731.6	2,791.7	2,782.1	8.6	6.5	-150.13	-64.0	-93.0	203.3	188.7	14.62	13.907		
2,800.0	2,775.2	2,836.5	2,825.5	8.7	6.6	-151.37	-55.3	-99.4	201.9	186.9	14.97	13.485		
2,850.0	2,823.7	2,886.2	2,873.8	8.9	6.8	-152.77	-45.6	-106.5	200.5	185.1	15.38	13.038		
2,900.0	2,872.3	2,936.0	2,922.0	9.1	7.0	-154.19	-35.9	-113.6	199.2	183.4	15.79	12.616		
2,945.0	2,915.9	2,980.7	2,965.4	9.3	7.1	-155.48	-27.1	-120.0	198.1	182.0	16.16	12.257		
3,000.0	2,969.3	3,035.4	3,018.5	9.5	7.3	-157.08	-16.5	-127.9	197.0	180.3	16.63	11.844		
3,040.0	3,008.1	3,075.2	3,057.1	9.7	7.5	-158.25	-8.7	-133.5	196.2	179.2	16.97	11.561		
3,100.0	3,066.3	3,134.9	3,115.0	9.9	7.7	-160.02	2.9	-142.1	195.3	177.8	17.49	11.164		
3,135.0	3,100.3	3,169.7	3,148.8	10.1	7.9	-161.07	9.7	-147.1	194.8	177.0	17.79	10.947		
3,200.0	3,163.3	3,234.4	3,211.6	10.4	8.1	-163.01	22.3	-156.3	194.1	175.7	18.36	10.572		
3,230.0	3,192.5	3,264.2	3,240.5	10.5	8.2	-163.92	28.2	-160.6	193.8	175.2	18.62	10.411		
3,300.0	3,260.4	3,333.9	3,308.1	10.8	8.5	-166.03	41.7	-170.6	193.4	174.2	19.22	10.062		
3,325.0	3,284.6	3,358.7	3,332.2	10.9	8.6	-166.79	46.6	-174.1	193.4	173.9	19.44	9.947		
3,367.1	3,325.5	3,400.6	3,372.8	11.1	8.8	-168.06	54.8	-180.1	193.3	173.5	19.80	9.763		
3,400.0	3,357.4	3,433.3	3,404.6	11.2	8.9	-169.06	61.1	-184.8	193.4	173.3	20.08	9.628		
3,420.0	3,376.8	3,453.2	3,423.9	11.3	9.0	-169.66	65.0	-187.6	193.4	173.1	20.25	9.550		
3,500.0	3,454.4	3,532.8	3,501.1	11.7	9.3	-172.08	80.5	-199.0	193.8	172.9	20.92	9.264		
3,515.0	3,469.0	3,547.7	3,515.6	11.7	9.4	-172.53	83.5	-201.2	193.9	172.9	21.04	9.215		
3,600.0	3,551.5	3,632.3	3,597.6	12.1	9.8	-175.08	99.9	-213.3	194.8	173.1	21.73	8.963		
3,610.0	3,561.2	3,642.2	3,607.3	12.1	9.8	-175.38	101.9	-214.7	194.9	173.1	21.81	8.936		
3,700.0	3,648.5	3,731.7	3,694.1	12.5	10.2	-178.04	119.3	-227.5	196.3	173.8	22.52	8.719		
3,705.0	3,653.3	3,736.7	3,699.0	12.6	10.2	-178.19	120.3	-228.2	196.4	173.9	22.55	8.709		
3,800.0	3,745.5	3,831.2	3,790.7	13.0	10.6	-179.05	138.7	-241.7	198.4	175.1	23.26	8.528		
3,895.0	3,837.7	3,925.7	3,882.3	13.4	11.1	-176.34	157.2	-255.3	200.8	176.9	23.94	8.388		
3,900.0	3,842.5	3,930.7	3,887.2	13.4	11.1	-176.20	158.1	-256.0	200.9	177.0	23.97	8.382		
3,990.0	3,929.9	4,020.2	3,974.0	13.8	11.5	-173.71	175.6	-268.8	203.6	179.1	24.57	8.287		
4,000.0	3,939.6	4,030.1	3,983.7	13.9	11.5	-173.44	177.5	-270.2	204.0	179.3	24.64	8.278		
4,085.0	4,022.0	4,114.7	4,065.7	14.3	11.9	-171.15	194.0	-282.3	206.9	181.7	25.18	8.219		
4,100.0	4,036.6	4,129.6	4,080.2	14.3	12.0	-170.76	196.9	-284.5	207.5	182.2	25.27	8.211		
4,180.0	4,114.2	4,209.2	4,157.4	14.7	12.3	-168.68	212.5	-295.8	210.6	184.9	25.74	8.181		
4,200.0	4,133.6	4,229.1	4,176.7	14.8	12.4	-168.17	216.4	-298.7	211.4	185.6	25.86	8.177		
4,275.0	4,206.4	4,303.7	4,249.1	15.2	12.8	-166.30	230.9	-309.4	214.7	188.4	26.27	8.170		
4,300.0	4,230.7	4,328.6	4,273.2	15.3	12.9	-165.68	235.8	-312.9	215.8	189.4	26.41	8.171		
4,370.0	4,298.6	4,398.2	4,340.8	15.6	13.2	-164.00	249.3	-322.9	219.1	192.3	26.77	8.183		
4,400.0	4,327.7	4,428.0	4,369.8	15.7	13.3	-163.30	255.2	-327.2	220.5	193.6	26.92	8.191		
4,465.0	4,390.8	4,492.7	4,432.5	16.0	13.6	-161.80	267.8	-336.4	223.8	196.6	27.24	8.216		
4,500.0	4,424.7	4,527.5	4,466.3	16.2	13.8	-161.02	274.6	-341.4	225.7	198.3	27.41	8.233		
4,560.0	4,482.9	4,587.2	4,524.2	16.5	14.1	-159.70	286.2	-349.9	228.9	201.2	27.68	8.270		
4,578.5	4,500.9	4,605.6	4,542.0	16.5	14.2	-159.30	289.8	-352.6	229.9	202.2	27.76	8.283		
4,600.0	4,521.8	4,627.0	4,562.8	16.6	14.3	-158.84	294.0	-355.6	231.1	203.2	27.85	8.298		
4,655.0	4,575.3	4,681.7	4,615.9	16.9	14.5	-157.62	304.6	-363.5	233.3	205.3	28.08	8.311		
4,700.0	4,619.4	4,726.5	4,659.3	17.1	14.7	-156.55	313.4	-369.9	234.6	206.3	28.24	8.305		
4,750.0	4,668.4	4,776.2	4,707.6	17.4	15.0	-155.30	323.1	-377.0	235.3	206.9	28.39	8.286		
4,800.0	4,717.7	4,825.9	4,755.8	17.6	15.2	-153.96	332.8	-384.1	235.3	206.8	28.51	8.253		
4,845.0	4,762.1	4,870.6	4,799.1	17.8	15.4	-152.66	341.5	-390.5	234.8	206.2	28.57	8.216		
4,900.0	4,816.5	4,925.1	4,852.1	18.0	15.6	-150.96	352.1	-398.3	233.5	204.9	28.61	8.161		
4,940.0	4,856.2	4,964.7	4,890.5	18.2	15.8	-149.62	359.8	-404.0	232.1	203.5	28.59	8.118		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-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)		
5,000.0	4,915.9	5,024.0	4,948.0	18.5	16.1	147.45	371.4	-412.5	229.3	200.8	28.49	8.049	
5,035.0	4,950.7	5,058.5	4,981.5	18.6	16.3	146.08	378.1	-417.4	227.4	199.0	28.39	8.011	
5,100.0	5,015.6	5,122.5	5,043.6	18.9	16.6	143.30	390.6	-426.6	223.3	195.2	28.11	7.943	
5,130.0	5,045.5	5,151.9	5,072.1	19.0	16.7	141.91	396.3	-430.8	221.1	193.2	27.93	7.919	
5,200.0	5,115.4	5,220.4	5,138.6	19.2	17.0	138.35	409.7	-440.6	215.8	188.4	27.40	7.877	
5,225.0	5,140.4	5,244.8	5,162.2	19.3	17.2	136.97	414.5	-444.1	213.8	186.7	27.14	7.878	
5,278.6	5,194.0	5,296.8	5,212.8	19.3	17.4	72.98	424.6	-451.5	209.4	182.9	26.53	7.894	
5,300.0	5,215.4	5,317.6	5,232.9	19.3	17.5	71.66	428.7	-454.5	207.7	181.5	26.25	7.914	
5,320.0	5,235.4	5,337.0	5,251.8	19.4	17.6	70.42	432.5	-457.3	206.3	180.3	25.99	7.935	
5,400.0	5,315.4	5,414.7	5,327.1	19.4	18.0	65.29	447.6	-468.4	201.4	176.4	24.99	8.058	
5,415.0	5,330.4	5,429.2	5,341.2	19.4	18.0	64.30	450.4	-470.5	200.7	175.9	24.82	8.086	
5,500.0	5,415.4	5,511.7	5,421.2	19.4	18.4	58.61	466.5	-482.3	197.8	173.9	23.94	8.264	
5,510.0	5,425.4	5,521.4	5,430.6	19.4	18.5	57.93	468.4	-483.7	197.6	173.8	23.85	8.286	
5,571.7	5,487.1	5,581.3	5,488.7	19.5	18.8	53.73	480.1	-492.2	197.1	173.6	23.43	8.411	
5,600.0	5,515.4	5,608.7	5,515.4	19.5	18.9	51.80	485.4	-496.2	197.2	173.9	23.30	8.461	
5,605.0	5,520.4	5,613.6	5,520.1	19.5	18.9	51.46	486.4	-496.9	197.2	173.9	23.29	8.469	
5,700.0	5,615.4	5,705.8	5,609.5	19.5	19.3	45.04	504.4	-510.0	199.5	176.2	23.25	8.581	
5,795.0	5,710.4	5,797.9	5,699.0	19.6	19.8	38.83	522.4	-523.2	204.3	180.6	23.74	8.606	
5,800.0	5,715.4	5,802.8	5,703.7	19.6	19.8	38.51	523.3	-523.9	204.7	180.9	23.78	8.605	
5,890.0	5,805.4	5,890.1	5,788.4	19.6	20.2	32.96	540.3	-536.4	211.6	186.9	24.70	8.567	
5,900.0	5,815.4	5,899.8	5,797.8	19.6	20.3	32.37	542.2	-537.8	212.5	187.7	24.82	8.562	
5,985.0	5,900.4	5,982.9	5,878.4	19.7	20.7	27.49	558.4	-549.7	221.0	195.0	25.95	8.516	
6,000.0	5,915.4	5,998.0	5,893.1	19.7	20.7	26.67	561.2	-551.8	222.6	196.4	26.16	8.508	
6,080.0	5,995.4	6,079.3	5,972.5	19.7	21.1	22.75	575.5	-562.2	231.2	203.8	27.31	8.465	
6,100.0	6,015.4	6,099.8	5,992.5	19.7	21.2	21.88	578.8	-564.6	233.3	205.7	27.59	8.456	
6,175.0	6,090.4	6,177.0	6,068.5	19.7	21.6	19.01	590.2	-573.0	240.9	212.3	28.56	8.434	
6,200.0	6,115.4	6,203.0	6,094.1	19.8	21.7	18.18	593.6	-575.5	243.3	214.4	28.87	8.429	
6,270.0	6,185.4	6,276.0	6,166.3	19.8	22.0	16.15	602.4	-581.9	249.5	219.9	29.64	8.419	
6,300.0	6,215.4	6,307.4	6,197.4	19.8	22.2	15.41	605.7	-584.4	251.9	222.0	29.94	8.416	
6,365.0	6,280.4	6,375.8	6,265.4	19.8	22.5	14.05	611.9	-588.9	256.6	226.1	30.51	8.410	
6,400.0	6,315.4	6,412.8	6,302.2	19.8	22.6	13.45	614.7	-591.0	258.7	227.9	30.78	8.406	
6,460.0	6,375.4	6,476.4	6,365.7	19.9	22.9	12.63	618.7	-593.9	261.7	230.6	31.17	8.398	
6,500.0	6,415.4	6,518.9	6,408.1	19.9	23.0	12.22	620.7	-595.4	263.3	231.9	31.38	8.390	
6,555.0	6,470.4	6,577.5	6,466.6	19.9	23.2	11.83	622.6	-596.8	264.8	233.2	31.61	8.378	
6,600.0	6,515.4	6,625.4	6,514.5	19.9	23.4	11.66	623.5	-597.5	265.5	233.8	31.72	8.370	
6,650.0	6,565.4	6,677.9	6,567.0	20.0	23.4	11.61	623.7	-597.6	265.7	233.9	31.77	8.361	
6,700.0	6,615.4	6,727.9	6,617.0	20.0	23.4	11.61	623.7	-597.6	265.7	233.8	31.83	8.346	
6,745.0	6,660.4	6,772.9	6,662.0	20.0	23.5	11.61	623.7	-597.6	265.7	233.8	31.89	8.331	
6,800.0	6,715.4	6,827.9	6,717.0	20.0	23.5	11.61	623.7	-597.6	265.7	233.7	31.96	8.312	
6,840.0	6,755.4	6,867.9	6,757.0	20.1	23.5	11.61	623.7	-597.6	265.7	233.6	32.01	8.299	
6,900.0	6,815.4	6,927.9	6,817.0	20.1	23.5	11.61	623.7	-597.6	265.7	233.6	32.09	8.279	
6,935.0	6,850.4	6,962.9	6,852.0	20.1	23.5	11.61	623.7	-597.6	265.7	233.5	32.13	8.267	
7,000.0	6,915.4	7,027.9	6,917.0	20.1	23.6	11.61	623.7	-597.6	265.7	233.4	32.21	8.247	
7,030.0	6,945.4	7,057.9	6,947.0	20.1	23.6	11.61	623.7	-597.6	265.7	233.4	32.24	8.239	
7,100.0	7,015.4	7,180.6	7,068.9	20.2	23.6	11.78	612.2	-599.3	259.3	228.3	31.01	8.362	
7,125.0	7,040.4	7,224.5	7,111.5	20.2	23.6	11.94	601.9	-600.7	253.4	222.9	30.41	8.331	
7,200.0	7,115.4	7,344.0	7,222.2	20.2	23.7	12.80	557.8	-607.0	225.3	196.7	28.55	7.889	
7,220.0	7,135.4	7,372.3	7,246.8	20.2	23.7	13.16	544.1	-608.9	215.5	187.4	28.09	7.670	
7,300.0	7,215.4	7,470.1	7,326.2	20.3	23.8	15.41	487.7	-616.9	168.9	142.3	26.59	6.353	
7,315.0	7,230.4	7,485.8	7,338.1	20.3	23.8	16.06	477.4	-618.3	159.1	132.7	26.37	6.032	
7,400.0	7,315.4	7,562.0	7,391.0	20.3	23.9	22.79	423.3	-626.0	98.4	72.9	25.54	3.854	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7065-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
7,410.0	7,325.4	7,569.6	7,396.0	20.3	23.9	24.24	417.5	-626.8	90.9	65.4	25.49	3.564	
7,500.0	7,415.4	7,628.8	7,431.2	20.4	23.9	68.40	370.5	-633.4	23.7	-6.6	30.32	0.781	Advise and Monitor
7,505.0	7,420.4	7,631.6	7,432.7	20.4	23.9	74.96	368.2	-633.8	20.9	-11.2	32.10	0.651	Advise and Monitor
7,520.3	7,435.7	7,640.0	7,437.3	20.4	24.0	98.09	361.2	-634.8	16.5	-21.2	37.75	0.437	Advise and Monitor, CC, ES, SF
7,600.0	7,515.4	7,678.3	7,456.8	20.4	24.0	161.44	328.6	-639.4	70.6	43.7	26.91	2.625	
7,695.0	7,610.4	7,714.2	7,473.0	20.5	24.0	173.81	296.8	-643.9	154.4	128.4	25.97	5.944	
7,700.0	7,615.4	7,715.9	7,473.7	20.5	24.0	174.11	295.3	-644.1	158.9	132.9	25.96	6.120	
7,790.0	7,705.4	7,750.0	7,487.2	20.5	24.0	178.48	264.3	-648.5	241.3	215.2	26.10	9.244	
7,800.0	7,715.4	7,750.0	7,487.2	20.5	24.0	178.48	264.3	-648.5	250.4	224.3	26.06	9.610	
7,885.0	7,800.4	7,765.4	7,492.6	20.6	24.0	179.69	250.0	-650.5	329.6	303.4	26.14	12.607	
7,900.0	7,815.4	7,768.6	7,493.7	20.6	24.0	179.90	247.0	-650.9	343.7	317.5	26.18	13.127	
7,980.0	7,895.4	7,784.2	7,498.7	20.6	24.1	-179.19	232.4	-653.0	419.3	392.9	26.40	15.885	
8,000.0	7,915.4	7,787.7	7,499.8	20.6	24.1	-179.01	229.1	-653.4	438.3	411.9	26.46	16.569	
8,075.0	7,990.4	7,800.0	7,503.4	20.7	24.1	-178.44	217.5	-655.1	510.0	483.3	26.68	19.113	
8,100.0	8,015.4	7,800.0	7,503.4	20.7	24.1	-178.44	217.5	-655.1	534.0	507.2	26.75	19.963	
8,170.0	8,085.4	7,813.0	7,507.0	20.7	24.1	-177.93	205.1	-656.8	601.3	574.4	26.98	22.286	
8,200.0	8,115.4	7,816.7	7,507.9	20.7	24.1	-177.80	201.6	-657.3	630.3	603.2	27.08	23.277	
8,265.0	8,180.4	7,824.2	7,509.8	20.7	24.1	-177.55	194.3	-658.3	693.2	665.9	27.29	25.403	
8,300.0	8,215.4	7,828.0	7,510.7	20.8	24.1	-177.43	190.7	-658.9	727.2	699.8	27.40	26.538	
8,360.0	8,275.4	7,834.0	7,512.1	20.8	24.1	-177.25	185.0	-659.7	785.5	758.0	27.60	28.464	
8,400.0	8,315.4	7,850.0	7,515.5	20.8	24.1	-176.82	169.5	-661.9	824.8	797.0	27.75	29.726	
8,447.6	8,363.0	7,850.0	7,515.5	20.8	24.1	-176.82	169.5	-661.9	871.1	843.2	27.90	31.225	
8,450.0	8,365.4	7,850.0	7,515.5	20.8	24.1	2.62	169.5	-661.9	873.4	845.5	27.90	31.300	
8,455.0	8,370.4	7,850.0	7,515.5	20.8	24.1	2.53	169.5	-661.9	878.3	850.4	27.92	31.456	
8,500.0	8,415.4	7,850.0	7,515.5	20.8	24.1	1.90	169.5	-661.9	921.7	893.6	28.07	32.831	
8,550.0	8,464.9	7,850.0	7,515.5	20.9	24.1	1.48	169.5	-661.9	968.9	940.6	28.25	34.291	
8,600.0	8,513.6	7,850.0	7,515.5	20.9	24.1	1.20	169.5	-661.9	1,014.8	986.4	28.45	35.667	
8,645.0	8,556.6	7,867.9	7,518.8	20.9	24.1	1.25	152.1	-664.3	1,054.5	1,025.9	28.65	36.805	
8,650.0	8,561.3	7,868.7	7,518.9	20.9	24.1	1.25	151.2	-664.4	1,058.9	1,030.2	28.67	36.928	
8,700.0	8,607.4	7,877.8	7,520.4	20.9	24.1	1.18	142.3	-665.7	1,101.3	1,072.4	28.91	38.099	
8,740.0	8,642.9	7,900.0	7,523.3	21.0	24.1	1.28	120.6	-668.8	1,134.1	1,105.0	29.11	38.964	
8,750.0	8,651.6	7,900.0	7,523.3	21.0	24.1	1.25	120.6	-668.8	1,142.0	1,112.8	29.16	39.167	
8,800.0	8,693.6	7,900.0	7,523.3	21.0	24.1	1.13	120.6	-668.8	1,180.1	1,150.7	29.42	40.114	
8,835.0	8,721.6	7,900.0	7,523.3	21.0	24.1	1.06	120.6	-668.8	1,205.7	1,176.0	29.62	40.710	
8,850.0	8,733.2	7,900.0	7,523.3	21.0	24.1	1.03	120.6	-668.8	1,216.3	1,186.6	29.70	40.948	
8,900.0	8,769.9	7,921.0	7,525.3	21.1	24.2	1.10	99.9	-671.7	1,249.9	1,219.9	30.00	41.665	
8,930.0	8,790.4	7,928.2	7,525.8	21.1	24.2	1.10	92.8	-672.7	1,268.9	1,238.7	30.18	42.038	
8,950.0	8,803.5	7,950.0	7,526.8	21.1	24.2	1.22	71.2	-675.8	1,281.4	1,251.1	30.30	42.287	
9,000.0	8,833.8	7,950.0	7,526.8	21.1	24.2	1.15	71.2	-675.8	1,309.5	1,278.9	30.64	42.747	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-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	
0.0	0.0	1.4	1.4	3.0	3.0	179.81	-150.0	0.5	150.0					
95.0	95.0	96.4	96.4	3.0	3.0	179.81	-150.0	0.5	150.0	144.0	6.02	24.925		
100.0	100.0	101.4	101.4	3.0	3.0	179.81	-150.0	0.5	150.0	144.0	6.02	24.913		
190.0	190.0	191.4	191.4	3.1	3.0	179.81	-150.0	0.5	150.0	143.9	6.13	24.455		
200.0	200.0	201.4	201.4	3.1	3.0	179.81	-150.0	0.5	150.0	143.8	6.15	24.382		
285.0	285.0	286.4	286.4	3.3	3.0	179.81	-150.0	0.5	150.0	143.7	6.26	23.943		
300.0	300.0	301.4	301.4	3.3	3.0	179.81	-150.0	0.5	150.0	143.7	6.29	23.856		
380.0	380.0	381.4	381.4	3.4	3.0	179.81	-150.0	0.5	150.0	143.6	6.40	23.444		
400.0	400.0	401.4	401.4	3.4	3.0	179.81	-150.0	0.5	150.0	143.6	6.43	23.334		
475.0	475.0	476.4	476.4	3.5	3.0	179.81	-150.0	0.5	150.0	143.5	6.54	22.951		
500.0	500.0	501.4	501.4	3.5	3.1	179.81	-150.0	0.5	150.0	143.4	6.57	22.818		
570.0	570.0	571.4	571.4	3.6	3.1	179.81	-150.0	0.5	150.0	143.3	6.68	22.465		
600.0	600.0	601.4	601.4	3.6	3.1	179.81	-150.0	0.5	150.0	143.3	6.72	22.309		
665.0	665.0	666.4	666.4	3.7	3.1	179.81	-150.0	0.5	150.0	143.2	6.82	21.985		
700.0	700.0	701.4	701.4	3.8	3.1	179.81	-150.0	0.5	150.0	143.1	6.88	21.807		
760.0	760.0	761.4	761.4	3.8	3.1	179.81	-150.0	0.5	150.0	143.0	6.97	21.512		
800.0	800.0	801.4	801.4	3.9	3.2	179.81	-150.0	0.5	150.0	143.0	7.04	21.314		
855.0	855.0	856.4	856.4	4.0	3.2	179.81	-150.0	0.5	150.0	142.9	7.13	21.048		
900.0	900.0	901.4	901.4	4.0	3.2	179.81	-150.0	0.5	150.0	142.8	7.20	20.829		
950.0	950.0	951.4	951.4	4.1	3.2	179.81	-150.0	0.5	150.0	142.7	7.28	20.592		
1,000.0	1,000.0	1,001.4	1,001.4	4.1	3.2	179.81	-150.0	0.5	150.0	142.6	7.37	20.354		
1,045.0	1,045.0	1,046.4	1,046.4	4.2	3.3	179.81	-150.0	0.5	150.0	142.6	7.45	20.145		
1,100.0	1,100.0	1,101.4	1,101.4	4.2	3.3	179.81	-150.0	0.5	150.0	142.5	7.54	19.889		
1,140.0	1,140.0	1,141.4	1,141.4	4.3	3.3	179.81	-150.0	0.5	150.0	142.4	7.61	19.707		
1,200.0	1,200.0	1,201.4	1,201.4	4.4	3.4	179.81	-150.0	0.5	150.0	142.3	7.72	19.435		
1,235.0	1,235.0	1,236.4	1,236.4	4.4	3.4	179.81	-150.0	0.5	150.0	142.2	7.78	19.280		
1,300.0	1,300.0	1,301.4	1,301.4	4.5	3.4	179.81	-150.0	0.5	150.0	142.1	7.90	18.993		
1,330.0	1,330.0	1,331.4	1,331.4	4.5	3.4	179.81	-150.0	0.5	150.0	142.0	7.95	18.863		
1,400.0	1,400.0	1,401.4	1,401.4	4.6	3.5	179.81	-150.0	0.5	150.0	141.9	8.08	18.562		
1,425.0	1,425.0	1,426.4	1,426.4	4.6	3.5	179.81	-150.0	0.5	150.0	141.9	8.13	18.456		
1,500.0	1,500.0	1,501.4	1,501.4	4.7	3.5	179.81	-150.0	0.5	150.0	141.7	8.27	18.142 CC		
1,520.0	1,520.0	1,521.4	1,521.4	4.7	3.6	-119.39	-150.0	0.5	150.0	141.7	8.31	18.063 ES		
1,600.0	1,600.0	1,601.4	1,601.4	4.9	3.6	-119.93	-150.0	0.5	150.9	142.4	8.46	17.827		
1,615.0	1,615.0	1,616.4	1,616.4	4.9	3.6	-120.11	-150.0	0.5	151.1	142.6	8.50	17.780		
1,700.0	1,699.8	1,701.2	1,701.2	5.1	3.7	-121.57	-150.0	0.5	153.5	144.8	8.72	17.603		
1,710.0	1,709.8	1,711.2	1,711.2	5.1	3.7	-121.79	-150.0	0.5	153.9	145.2	8.75	17.592		
1,800.0	1,799.5	1,800.9	1,800.9	5.3	3.8	-124.18	-150.0	0.5	158.3	149.3	9.00	17.593		
1,805.0	1,804.4	1,805.8	1,805.8	5.3	3.8	-124.33	-150.0	0.5	158.6	149.6	9.01	17.598		
1,900.0	1,898.7	1,900.1	1,900.1	5.6	3.9	-127.54	-150.0	0.5	165.5	156.2	9.29	17.803		
1,995.0	1,992.5	1,993.9	1,993.9	5.9	3.9	-131.21	-150.0	0.5	174.9	165.3	9.60	18.216		
2,000.0	1,997.5	1,998.9	1,998.9	5.9	3.9	-131.41	-150.0	0.5	175.5	165.9	9.62	18.244		
2,090.0	2,085.8	2,093.2	2,093.2	6.2	4.2	-135.45	-148.5	0.3	185.9	175.8	10.09	18.414		
2,100.0	2,095.6	2,103.7	2,103.7	6.3	4.2	-135.92	-148.1	0.2	187.0	176.9	10.15	18.423		
2,185.0	2,178.5	2,193.0	2,192.8	6.6	4.5	-140.04	-143.6	-0.5	196.9	186.2	10.69	18.425		
2,200.1	2,193.1	2,208.8	2,208.6	6.6	4.5	-140.79	-142.5	-0.6	198.7	187.9	10.78	18.423		
2,280.0	2,270.7	2,292.8	2,292.3	6.9	4.8	-144.83	-135.2	-1.7	207.5	196.2	11.28	18.400		
2,300.0	2,290.1	2,313.9	2,313.3	6.9	4.9	-145.82	-133.0	-2.0	209.5	198.1	11.40	18.372		
2,375.0	2,362.9	2,393.0	2,391.8	7.2	5.1	-149.50	-123.4	-3.5	216.3	204.4	11.89	18.198		
2,400.0	2,387.1	2,419.4	2,417.9	7.3	5.2	-150.72	-119.7	-4.0	218.3	206.3	12.05	18.120		
2,470.0	2,455.0	2,493.3	2,490.9	7.5	5.5	-154.14	-108.1	-5.7	223.3	210.8	12.51	17.847		
2,500.0	2,484.1	2,524.9	2,522.0	7.6	5.6	-155.63	-102.6	-6.6	225.2	212.5	12.68	17.764		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-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		
2,565.0	2,547.2	2,590.4	2,586.3	7.8	5.7	-158.72	-90.3	-8.4	229.0	216.0	13.02	17.591		
2,600.0	2,581.2	2,624.8	2,620.0	8.0	5.8	-160.31	-83.8	-9.4	231.3	218.0	13.22	17.490		
2,660.0	2,639.4	2,683.6	2,677.8	8.2	6.0	-162.95	-72.7	-11.0	235.6	222.0	13.59	17.332		
2,700.0	2,678.2	2,722.8	2,716.3	8.4	6.1	-164.66	-65.3	-12.1	238.7	224.9	13.84	17.254		
2,755.0	2,731.6	2,776.8	2,769.2	8.6	6.3	-166.94	-55.1	-13.6	243.4	229.2	14.17	17.173		
2,800.0	2,775.2	2,820.9	2,812.6	8.7	6.4	-168.74	-46.8	-14.9	247.5	233.0	14.44	17.134		
2,850.0	2,823.7	2,869.9	2,860.7	8.9	6.6	-170.67	-37.6	-16.3	252.3	237.6	14.75	17.111		
2,900.0	2,872.3	2,919.0	2,908.8	9.1	6.8	-172.52	-28.3	-17.7	257.4	242.4	15.04	17.113		
2,945.0	2,915.9	2,963.1	2,952.1	9.3	6.9	-174.13	-20.0	-18.9	262.3	247.0	15.31	17.131		
3,000.0	2,969.3	3,017.0	3,005.1	9.5	7.1	-176.02	-9.8	-20.4	268.5	252.8	15.63	17.176		
3,040.0	3,008.1	3,056.3	3,043.6	9.7	7.3	-177.34	-2.4	-21.5	273.1	257.3	15.86	17.220		
3,100.0	3,066.3	3,115.1	3,101.3	9.9	7.5	-179.24	8.7	-23.2	280.4	264.2	16.20	17.306		
3,135.0	3,100.3	3,149.4	3,135.0	10.1	7.6	-179.69	15.2	-24.1	284.8	268.4	16.40	17.365		
3,200.0	3,163.3	3,213.2	3,197.6	10.4	7.9	-177.80	27.2	-25.9	293.2	276.4	16.76	17.491		
3,230.0	3,192.5	3,242.6	3,226.5	10.5	8.0	-176.97	32.8	-26.8	297.2	280.2	16.93	17.555		
3,300.0	3,260.4	3,311.2	3,293.9	10.8	8.3	-175.10	45.7	-28.7	306.7	289.4	17.31	17.718		
3,325.0	3,284.6	3,335.8	3,317.9	10.9	8.3	-174.46	50.4	-29.4	310.2	292.7	17.44	17.780		
3,400.0	3,357.4	3,409.3	3,390.1	11.2	8.6	-172.62	64.3	-31.5	320.8	303.0	17.84	17.978		
3,420.0	3,376.8	3,428.9	3,409.4	11.3	8.7	-172.15	68.0	-32.0	323.7	305.7	17.95	18.033		
3,500.0	3,454.4	3,507.4	3,486.4	11.7	9.0	-170.35	82.8	-34.2	335.5	317.1	18.37	18.263		
3,515.0	3,469.0	3,522.1	3,500.8	11.7	9.1	-170.03	85.5	-34.6	337.7	319.3	18.45	18.307		
3,600.0	3,551.5	3,605.4	3,582.7	12.1	9.4	-168.28	101.3	-37.0	350.6	331.7	18.89	18.565		
3,610.0	3,561.2	3,615.2	3,592.3	12.1	9.5	-168.08	103.1	-37.3	352.2	333.2	18.94	18.596		
3,700.0	3,648.5	3,703.5	3,678.9	12.5	9.8	-166.37	119.8	-39.7	366.2	346.8	19.40	18.879		
3,705.0	3,653.3	3,708.4	3,683.7	12.6	9.9	-166.28	120.7	-39.9	367.0	347.6	19.42	18.895		
3,800.0	3,745.5	3,801.6	3,775.2	13.0	10.3	-164.62	138.3	-42.5	382.1	362.2	19.90	19.201		
3,895.0	3,837.7	3,894.7	3,866.6	13.4	10.7	-163.08	155.9	-45.1	397.6	377.2	20.38	19.510		
3,900.0	3,842.5	3,899.6	3,871.5	13.4	10.7	-163.01	156.8	-45.3	398.4	378.0	20.40	19.527		
3,990.0	3,929.9	3,987.9	3,958.1	13.8	11.0	-161.67	173.5	-47.7	413.3	392.4	20.85	19.821		
4,000.0	3,939.6	3,997.7	3,967.7	13.9	11.1	-161.52	175.3	-48.0	414.9	394.0	20.90	19.854		
4,085.0	4,022.0	4,081.1	4,049.5	14.3	11.4	-160.35	191.0	-50.4	429.2	407.9	21.32	20.131		
4,100.0	4,036.6	4,095.8	4,064.0	14.3	11.5	-160.15	193.8	-50.8	431.7	410.3	21.39	20.180		
4,180.0	4,114.2	4,174.2	4,141.0	14.7	11.9	-159.13	208.6	-53.0	445.3	423.5	21.79	20.439		
4,200.0	4,133.6	4,193.8	4,160.2	14.8	11.9	-158.88	212.3	-53.5	448.7	426.9	21.89	20.503		
4,275.0	4,206.4	4,267.4	4,232.4	15.2	12.3	-157.99	226.2	-55.6	461.6	439.4	22.26	20.743		
4,300.0	4,230.7	4,291.9	4,256.5	15.3	12.4	-157.70	230.8	-56.3	466.0	443.6	22.38	20.822		
4,370.0	4,298.6	4,360.5	4,323.9	15.6	12.7	-156.93	243.8	-58.2	478.1	455.4	22.72	21.043		
4,400.0	4,327.7	4,390.0	4,352.8	15.7	12.8	-156.61	249.3	-59.1	483.4	460.5	22.87	21.136		
4,465.0	4,390.8	4,453.7	4,415.3	16.0	13.1	-155.94	261.4	-60.9	494.8	471.6	23.19	21.337		
4,500.0	4,424.7	4,488.0	4,449.0	16.2	13.2	-155.59	267.9	-61.8	500.9	477.6	23.36	21.444		
4,560.0	4,482.9	4,546.9	4,506.8	16.5	13.5	-155.02	279.0	-63.5	511.5	487.9	23.65	21.633		
4,578.5	4,500.9	4,565.0	4,524.6	16.5	13.6	-154.84	282.4	-64.0	514.8	491.1	23.73	21.690		
4,600.0	4,521.8	4,586.1	4,545.3	16.6	13.7	-154.67	286.4	-64.6	518.6	494.7	23.83	21.759		
4,655.0	4,575.3	4,640.2	4,598.4	16.9	13.9	-154.21	296.6	-66.1	527.5	503.4	24.10	21.886		
4,700.0	4,619.4	4,684.4	4,641.8	17.1	14.1	-153.81	304.9	-67.3	534.2	509.9	24.32	21.966		
4,750.0	4,668.4	4,733.7	4,690.2	17.4	14.3	-153.32	314.2	-68.7	540.9	516.4	24.54	22.038		
4,800.0	4,717.7	4,783.1	4,738.7	17.6	14.5	-152.81	323.5	-70.1	546.9	522.1	24.76	22.085		
4,845.0	4,762.1	4,827.5	4,782.3	17.8	14.7	-152.31	331.9	-71.4	551.7	526.7	24.94	22.116		
4,900.0	4,816.5	4,881.9	4,835.6	18.0	15.0	-151.67	342.2	-72.9	556.7	531.6	25.16	22.130		
4,940.0	4,856.2	4,921.4	4,874.5	18.2	15.1	-151.17	349.7	-74.0	559.9	534.6	25.30	22.132		
5,000.0	4,915.9	4,980.7	4,932.7	18.5	15.4	-150.38	360.9	-75.7	563.8	538.3	25.50	22.112		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
5,035.0	4,950.7	5,015.3	4,966.6	18.6	15.6	149.89	367.4	-76.7	565.7	540.1	25.60	22.096		
5,100.0	5,015.6	5,079.5	5,029.6	18.9	15.9	148.93	379.5	-78.5	568.2	542.4	25.78	22.043		
5,130.0	5,045.5	5,109.1	5,058.7	19.0	16.0	148.46	385.1	-79.3	569.0	543.2	25.84	22.019		
5,200.0	5,115.4	5,178.1	5,126.4	19.2	16.3	147.30	398.1	-81.2	570.1	544.1	25.98	21.939		
5,225.0	5,140.4	5,202.7	5,150.6	19.3	16.4	146.86	402.7	-81.9	570.2	544.2	25.99	21.936		
5,278.6	5,194.0	5,255.3	5,202.2	19.3	16.6	85.05	412.7	-83.4	569.8	543.8	26.00	21.914		
5,300.0	5,215.4	5,276.4	5,222.9	19.3	16.7	84.65	416.7	-84.0	569.6	543.6	25.98	21.924		
5,320.0	5,235.4	5,296.0	5,242.2	19.4	16.8	84.27	420.4	-84.6	569.4	543.4	25.97	21.927		
5,400.0	5,315.4	5,374.5	5,319.2	19.4	17.2	82.76	435.2	-86.8	568.9	542.9	25.92	21.945		
5,415.0	5,330.4	5,389.2	5,333.7	19.4	17.2	82.48	438.0	-87.2	568.8	542.9	25.92	21.948		
5,465.9	5,381.3	5,439.2	5,382.7	19.4	17.5	81.52	447.4	-88.6	568.7	542.8	25.90	21.963		
5,500.0	5,415.4	5,472.7	5,415.6	19.4	17.6	80.87	453.7	-89.5	568.8	542.9	25.88	21.973		
5,510.0	5,425.4	5,482.5	5,425.2	19.4	17.7	80.69	455.6	-89.8	568.8	542.9	25.88	21.976		
5,600.0	5,515.4	5,570.8	5,512.0	19.5	18.1	78.99	472.2	-92.3	569.3	543.4	25.87	22.004		
5,605.0	5,520.4	5,575.8	5,516.8	19.5	18.1	78.89	473.2	-92.4	569.3	543.5	25.87	22.005		
5,700.0	5,615.4	5,669.0	5,608.3	19.5	18.5	77.11	490.8	-95.1	570.5	544.6	25.89	22.034		
5,795.0	5,710.4	5,762.3	5,699.9	19.6	18.9	75.33	508.4	-97.7	572.2	546.2	25.94	22.058		
5,800.0	5,715.4	5,767.2	5,704.7	19.6	19.0	75.24	509.3	-97.8	572.3	546.3	25.94	22.059		
5,890.0	5,805.4	5,855.5	5,791.4	19.6	19.4	73.57	526.0	-100.3	574.5	548.4	26.02	22.081		
5,900.0	5,815.4	5,865.3	5,801.0	19.6	19.4	73.38	527.8	-100.6	574.7	548.7	26.03	22.083		
5,985.0	5,900.4	5,949.8	5,884.0	19.7	19.8	71.83	543.5	-102.9	577.2	551.1	26.13	22.094		
6,000.0	5,915.4	5,964.8	5,898.8	19.7	19.8	71.56	546.1	-103.3	577.7	551.6	26.15	22.092		
6,080.0	5,995.4	6,045.2	5,978.0	19.7	20.2	70.23	559.7	-105.3	580.3	554.0	26.29	22.074		
6,100.0	6,015.4	6,065.3	5,997.8	19.7	20.3	69.91	562.9	-105.8	580.9	554.6	26.33	22.067		
6,175.0	6,090.4	6,141.1	6,072.7	19.7	20.6	68.79	574.5	-107.6	583.4	556.9	26.48	22.033		
6,200.0	6,115.4	6,166.4	6,097.7	19.8	20.7	68.43	578.1	-108.1	584.2	557.7	26.53	22.019		
6,270.0	6,185.4	6,237.4	6,168.1	19.8	21.0	67.51	587.8	-109.5	586.5	559.8	26.69	21.973		
6,300.0	6,215.4	6,268.0	6,198.4	19.8	21.2	67.14	591.6	-110.1	587.4	560.7	26.76	21.951		
6,365.0	6,280.4	6,334.2	6,264.2	19.8	21.4	66.39	599.5	-111.3	589.4	562.5	26.92	21.898		
6,400.0	6,315.4	6,370.0	6,299.7	19.8	21.6	66.02	603.4	-111.9	590.4	563.4	27.00	21.866		
6,460.0	6,375.4	6,431.4	6,360.8	19.9	21.8	65.43	609.6	-112.8	592.1	565.0	27.15	21.808		
6,500.0	6,415.4	6,472.4	6,401.6	19.9	22.0	65.07	613.4	-113.4	593.2	565.9	27.25	21.767		
6,555.0	6,470.4	6,528.9	6,457.9	19.9	22.2	64.63	618.2	-114.1	594.5	567.1	27.39	21.707		
6,600.0	6,515.4	6,575.2	6,504.1	19.9	22.4	64.30	621.7	-114.6	595.5	568.0	27.50	21.656		
6,650.0	6,565.4	6,626.7	6,555.4	20.0	22.6	63.98	625.1	-115.1	596.6	568.9	27.62	21.596		
6,700.0	6,615.4	6,678.2	6,606.9	20.0	22.7	63.70	628.1	-115.6	597.4	569.7	27.74	21.535		
6,745.0	6,660.4	6,724.7	6,653.3	20.0	22.9	63.49	630.4	-115.9	598.1	570.3	27.85	21.479		
6,800.0	6,715.4	6,781.5	6,710.0	20.0	23.1	63.28	632.8	-116.2	598.9	570.9	27.97	21.408		
6,840.0	6,755.4	6,822.8	6,751.3	20.1	23.2	63.16	634.1	-116.4	599.3	571.2	28.06	21.356		
6,900.0	6,815.4	6,884.8	6,813.4	20.1	23.4	63.02	635.6	-116.7	599.7	571.5	28.19	21.277		
6,935.0	6,850.4	6,921.0	6,849.6	20.1	23.5	62.97	636.1	-116.7	599.9	571.6	28.25	21.235		
7,000.0	6,915.4	6,988.3	6,916.8	20.1	23.6	62.94	636.5	-116.8	600.0	571.7	28.35	21.161		
7,030.0	6,945.4	7,018.3	6,946.8	20.1	23.6	62.94	636.5	-116.8	600.0	571.6	28.39	21.134		
7,100.0	7,015.4	7,088.3	7,016.8	20.2	23.6	62.94	636.5	-116.8	600.0	571.5	28.49	21.062		
7,125.0	7,040.4	7,113.3	7,041.8	20.2	23.6	62.94	636.5	-116.8	600.0	571.5	28.52	21.036		
7,200.0	7,115.4	7,188.3	7,116.8	20.2	23.7	62.94	636.5	-116.8	600.0	571.4	28.63	20.959		
7,220.0	7,135.4	7,208.3	7,136.8	20.2	23.7	62.94	636.5	-116.8	600.0	571.3	28.66	20.939		
7,300.0	7,215.4	7,288.3	7,216.8	20.3	23.7	62.94	636.5	-116.8	600.0	571.2	28.77	20.857		
7,315.0	7,230.4	7,303.3	7,231.8	20.3	23.7	62.94	636.5	-116.8	600.0	571.2	28.79	20.842		
7,400.0	7,315.4	7,388.3	7,316.8	20.3	23.7	62.94	636.5	-116.8	600.0	571.1	28.91	20.756		
7,410.0	7,325.4	7,398.3	7,326.8	20.3	23.7	62.94	636.5	-116.8	600.0	571.1	28.92	20.746		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-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)		
7,500.0	7,415.4	7,535.1	7,463.2	20.4	23.8	63.64	628.2	-116.9	598.0	569.0	28.98	20.637
7,505.0	7,420.4	7,544.5	7,472.4	20.4	23.9	63.78	626.5	-116.9	597.6	568.6	28.97	20.625
7,600.0	7,515.4	7,708.0	7,626.6	20.4	24.0	68.49	573.8	-117.3	584.1	555.2	28.92	20.198
7,695.0	7,610.4	7,835.2	7,732.6	20.5	24.2	75.24	503.9	-118.0	564.4	535.2	29.18	19.342
7,700.0	7,615.4	7,840.9	7,736.9	20.5	24.2	75.61	500.3	-118.0	563.3	534.1	29.21	19.289
7,790.0	7,705.4	7,928.4	7,799.0	20.5	24.3	81.95	438.8	-118.5	545.7	516.0	29.77	18.330
7,800.0	7,715.4	7,936.6	7,804.4	20.5	24.3	82.61	432.6	-118.6	544.1	514.2	29.84	18.232
7,885.0	7,800.4	7,996.3	7,840.3	20.6	24.3	87.69	385.0	-119.0	533.9	503.5	30.40	17.563
7,900.0	7,815.4	8,005.2	7,845.3	20.6	24.3	88.49	377.5	-119.0	533.0	502.5	30.49	17.484
7,940.2	7,855.6	8,027.3	7,857.0	20.6	24.4	90.50	358.9	-119.2	531.9	501.2	30.68	17.337
7,980.0	7,895.4	8,046.6	7,866.7	20.6	24.4	92.30	342.1	-119.4	533.0	502.2	30.82	17.295
8,000.0	7,915.4	8,055.5	7,871.0	20.6	24.4	93.14	334.3	-119.4	534.4	503.6	30.87	17.314
8,075.0	7,990.4	8,084.9	7,884.2	20.7	24.4	95.95	308.1	-119.7	545.1	514.1	30.93	17.624
8,100.0	8,015.4	8,093.4	7,887.8	20.7	24.4	96.78	300.3	-119.7	550.5	519.6	30.91	17.811
8,170.0	8,085.4	8,114.7	7,896.2	20.7	24.4	98.85	280.8	-119.9	570.4	539.6	30.76	18.541
8,200.0	8,115.4	8,122.8	7,899.2	20.7	24.4	99.64	273.3	-120.0	581.0	550.4	30.67	18.942
8,265.0	8,180.4	8,138.5	7,904.8	20.7	24.4	101.18	258.6	-120.1	608.1	577.6	30.45	19.971
8,300.0	8,215.4	8,150.0	7,908.6	20.8	24.4	102.30	247.8	-120.2	624.7	594.3	30.40	20.553
8,360.0	8,275.4	8,150.0	7,908.6	20.8	24.4	102.30	247.8	-120.2	656.4	626.5	29.95	21.917
8,400.0	8,315.4	8,165.0	7,913.2	20.8	24.4	103.76	233.5	-120.3	679.4	649.4	29.96	22.675
8,447.6	8,363.0	8,172.8	7,915.5	20.8	24.4	104.52	226.1	-120.4	708.6	679.0	29.60	23.941
8,450.0	8,365.4	8,173.1	7,915.6	20.8	24.4	-75.77	225.7	-120.4	710.1	680.5	29.59	23.999
8,455.0	8,370.4	8,173.9	7,915.8	20.8	24.4	-75.29	225.0	-120.4	713.3	683.7	29.58	24.119
8,500.0	8,415.4	8,181.8	7,918.0	20.8	24.4	-70.93	217.4	-120.4	742.3	712.9	29.44	25.216
8,550.0	8,464.9	8,200.0	7,922.6	20.9	24.5	-65.35	199.8	-120.6	775.3	745.9	29.42	26.354
8,600.0	8,513.6	8,200.0	7,922.6	20.9	24.5	-61.43	199.8	-120.6	808.3	779.1	29.15	27.724
8,645.0	8,556.6	8,213.7	7,925.7	20.9	24.5	-57.10	186.4	-120.7	837.8	808.7	29.11	28.783
8,650.0	8,561.3	8,215.0	7,925.9	20.9	24.5	-56.66	185.2	-120.7	841.1	812.0	29.10	28.903
8,700.0	8,607.4	8,227.9	7,928.6	20.9	24.5	-52.44	172.5	-120.8	873.5	844.4	29.04	30.075
8,740.0	8,642.9	8,250.0	7,932.3	21.0	24.5	-48.81	150.8	-121.0	899.0	869.8	29.12	30.871
8,750.0	8,651.6	8,250.0	7,932.3	21.0	24.5	-48.22	150.8	-121.0	905.1	876.0	29.09	31.116
8,800.0	8,693.6	8,250.0	7,932.3	21.0	24.5	-45.42	150.8	-121.0	935.6	906.6	28.98	32.286
8,835.0	8,721.6	8,266.4	7,934.6	21.0	24.5	-43.02	134.5	-121.2	956.1	927.1	29.05	32.915
8,850.0	8,733.2	8,271.0	7,935.1	21.0	24.5	-42.16	130.0	-121.2	964.8	935.7	29.06	33.193
8,900.0	8,769.9	8,300.0	7,937.8	21.1	24.5	-39.13	101.1	-121.4	992.7	963.5	29.22	33.977
8,930.0	8,790.4	8,300.0	7,937.8	21.1	24.5	-37.98	101.1	-121.4	1,008.4	979.1	29.22	34.507
8,950.0	8,803.5	8,300.0	7,937.8	21.1	24.5	-37.26	101.1	-121.4	1,018.6	989.3	29.24	34.837
9,000.0	8,833.8	8,318.4	7,938.7	21.1	24.5	-35.22	82.7	-121.6	1,042.8	1,013.5	29.38	35.499
9,025.0	8,847.6	8,336.0	7,939.0	21.2	24.5	-34.17	65.1	-121.8	1,054.4	1,024.9	29.48	35.767
9,050.0	8,860.4	8,336.0	7,939.0	21.2	24.5	-33.50	65.1	-121.8	1,065.2	1,035.7	29.54	36.060
9,100.0	8,883.3	8,377.7	7,939.1	21.2	24.5	-31.75	23.4	-122.1	1,085.0	1,055.2	29.76	36.455
9,120.0	8,891.4	8,396.1	7,939.2	21.2	24.5	-31.14	5.0	-122.3	1,092.0	1,062.1	29.86	36.575
9,150.0	8,902.3	8,424.0	7,939.2	21.3	24.5	-30.35	-22.9	-122.5	1,101.4	1,071.4	30.01	36.705
9,200.0	8,917.1	8,471.8	7,939.4	21.3	24.5	-29.31	-70.7	-122.9	1,114.3	1,084.1	30.27	36.815
9,215.0	8,920.7	8,486.4	7,939.4	21.3	24.5	-29.07	-85.3	-123.1	1,117.5	1,087.1	30.35	36.822
9,250.0	8,927.7	8,520.7	7,939.5	21.4	24.5	-28.60	-119.6	-123.4	1,123.6	1,093.0	30.54	36.788
9,300.0	8,934.0	8,570.3	7,939.6	21.4	24.5	-28.19	-169.2	-123.8	1,129.0	1,098.2	30.83	36.623
9,310.0	8,934.8	8,580.3	7,939.7	21.5	24.5	-28.14	-179.1	-123.9	1,129.6	1,098.8	30.88	36.577
9,346.7	8,936.0	8,616.9	7,939.8	21.5	24.5	-28.07	-215.8	-124.2	1,130.6	1,099.6	31.09	36.364
9,400.0	8,936.1	8,670.2	7,939.9	21.6	24.5	-28.07	-269.1	-124.7	1,130.6	1,099.2	31.37	36.042
9,405.0	8,936.1	8,675.2	7,939.9	21.6	24.5	-28.07	-274.1	-124.7	1,130.6	1,099.2	31.40	36.010

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
9,500.0	8,936.2	8,770.2	7,940.2	21.7	24.5	-28.08	-28.08	-369.1	-125.5	1,130.5	1,098.6	31.95	35.387	
9,595.0	8,936.4	8,865.2	7,940.4	21.9	24.5	-28.08	-28.08	-464.1	-126.4	1,130.4	1,097.9	32.56	34.722	
9,600.0	8,936.4	8,870.2	7,940.4	21.9	24.5	-28.08	-28.08	-469.1	-126.4	1,130.4	1,097.8	32.59	34.687	
9,690.0	8,936.6	8,960.2	7,940.7	22.0	24.6	-28.08	-28.08	-559.1	-127.2	1,130.4	1,097.1	33.22	34.026	
9,700.0	8,936.6	8,970.2	7,940.7	22.1	24.6	-28.08	-28.08	-569.1	-127.3	1,130.3	1,097.1	33.29	33.953	
9,785.0	8,936.7	9,055.2	7,940.9	22.2	24.6	-28.08	-28.08	-654.1	-128.0	1,130.3	1,096.3	33.94	33.306	
9,800.0	8,936.7	9,070.2	7,941.0	22.3	24.6	-28.09	-28.09	-669.1	-128.1	1,130.3	1,096.2	34.05	33.194	
9,880.0	8,936.9	9,150.2	7,941.2	22.4	24.6	-28.09	-28.09	-749.1	-128.8	1,130.2	1,095.5	34.70	32.572	
9,900.0	8,936.9	9,170.2	7,941.2	22.5	24.6	-28.09	-28.09	-769.1	-129.0	1,130.2	1,095.3	34.86	32.418	
9,975.0	8,937.0	9,245.2	7,941.4	22.7	24.6	-28.09	-28.09	-844.1	-129.7	1,130.1	1,094.6	35.51	31.828	
10,000.0	8,937.1	9,270.2	7,941.5	22.7	24.6	-28.09	-28.09	-869.1	-129.9	1,130.1	1,094.4	35.72	31.634	
10,070.0	8,937.2	9,340.2	7,941.7	22.9	24.6	-28.09	-28.09	-939.1	-130.5	1,130.0	1,093.7	36.36	31.081	
10,100.0	8,937.2	9,370.2	7,941.8	23.0	24.7	-28.10	-28.10	-969.1	-130.7	1,130.0	1,093.4	36.63	30.848	
10,165.0	8,937.3	9,435.2	7,941.9	23.2	24.7	-28.10	-28.10	-1,034.1	-131.3	1,129.9	1,092.7	37.25	30.337	
10,200.0	8,937.4	9,470.2	7,942.0	23.3	24.7	-28.10	-28.10	-1,069.1	-131.6	1,129.9	1,092.3	37.58	30.066	
10,260.0	8,937.5	9,530.2	7,942.2	23.5	24.7	-28.10	-28.10	-1,129.1	-132.1	1,129.9	1,091.7	38.17	29.599	
10,300.0	8,937.5	9,570.2	7,942.3	23.6	24.7	-28.10	-28.10	-1,169.1	-132.5	1,129.8	1,091.3	38.57	29.292	
10,355.0	8,937.6	9,625.2	7,942.5	23.8	24.7	-28.10	-28.10	-1,224.1	-133.0	1,129.8	1,090.7	39.13	28.870	
10,400.0	8,937.7	9,670.2	7,942.6	23.9	24.7	-28.11	-28.11	-1,269.1	-133.3	1,129.7	1,090.2	39.60	28.531	
10,450.0	8,937.8	9,720.2	7,942.7	24.1	24.8	-28.11	-28.11	-1,319.1	-133.8	1,129.7	1,089.6	40.12	28.155	
10,500.0	8,937.9	9,770.2	7,942.8	24.2	24.8	-28.11	-28.11	-1,369.1	-134.2	1,129.7	1,089.0	40.66	27.785	
10,545.0	8,937.9	9,815.2	7,943.0	24.4	24.8	-28.11	-28.11	-1,414.1	-134.6	1,129.6	1,088.5	41.15	27.454	
10,600.0	8,938.0	9,870.2	7,943.1	24.6	24.8	-28.11	-28.11	-1,469.1	-135.1	1,129.6	1,087.8	41.75	27.057	
10,640.0	8,938.1	9,910.2	7,943.2	24.7	24.8	-28.11	-28.11	-1,509.1	-135.4	1,129.5	1,087.4	42.19	26.770	
10,700.0	8,938.2	9,970.2	7,943.4	25.0	24.9	-28.12	-28.12	-1,569.1	-135.9	1,129.5	1,086.6	42.87	26.348	
10,735.0	8,938.2	10,005.2	7,943.5	25.1	24.9	-28.12	-28.12	-1,604.1	-136.3	1,129.5	1,086.2	43.27	26.104	
10,800.0	8,938.3	10,070.2	7,943.7	25.4	24.9	-28.12	-28.12	-1,669.1	-136.8	1,129.4	1,085.4	44.01	25.660	
10,830.0	8,938.4	10,100.2	7,943.7	25.5	24.9	-28.12	-28.12	-1,699.1	-137.1	1,129.4	1,085.0	44.36	25.457	
10,900.0	8,938.5	10,170.2	7,943.9	25.8	25.0	-28.12	-28.12	-1,769.1	-137.7	1,129.3	1,084.1	45.19	24.993	
10,925.0	8,938.5	10,195.2	7,944.0	25.9	25.0	-28.12	-28.12	-1,794.1	-137.9	1,129.3	1,083.8	45.48	24.829	
11,000.0	8,938.7	10,270.2	7,944.2	26.2	25.1	-28.13	-28.13	-1,869.1	-138.6	1,129.2	1,082.9	46.38	24.347	
11,020.0	8,938.7	10,290.2	7,944.2	26.3	25.1	-28.13	-28.13	-1,889.1	-138.7	1,129.2	1,082.6	46.62	24.220	
11,100.0	8,938.8	10,370.2	7,944.5	26.6	25.1	-28.13	-28.13	-1,969.1	-139.4	1,129.2	1,081.6	47.60	23.724	
11,115.0	8,938.9	10,385.2	7,944.5	26.7	25.1	-28.13	-28.13	-1,984.1	-139.5	1,129.1	1,081.4	47.78	23.632	
11,200.0	8,939.0	10,470.2	7,944.7	27.1	25.2	-28.13	-28.13	-2,069.0	-140.3	1,129.1	1,080.2	48.83	23.122	
11,210.0	8,939.0	10,480.2	7,944.8	27.2	25.2	-28.13	-28.13	-2,079.0	-140.4	1,129.1	1,080.1	48.96	23.063	
11,300.0	8,939.2	10,570.2	7,945.0	27.6	25.3	-28.14	-28.14	-2,169.0	-141.2	1,129.0	1,078.9	50.08	22.541	
11,305.0	8,939.2	10,575.2	7,945.0	27.6	25.4	-28.14	-28.14	-2,174.0	-141.2	1,129.0	1,078.8	50.15	22.513	
11,400.0	8,939.3	10,670.2	7,945.3	28.1	25.5	-28.14	-28.14	-2,269.0	-142.0	1,128.9	1,077.5	51.35	21.982	
11,495.0	8,939.5	10,765.2	7,945.5	28.5	25.7	-28.14	-28.14	-2,364.0	-142.8	1,128.8	1,076.2	52.58	21.470	
11,500.0	8,939.5	10,770.2	7,945.5	28.6	25.7	-28.14	-28.14	-2,369.0	-142.9	1,128.8	1,076.2	52.64	21.444	
11,590.0	8,939.6	10,860.2	7,945.8	29.0	25.9	-28.15	-28.15	-2,459.0	-143.7	1,128.7	1,074.9	53.81	20.976	
11,600.0	8,939.6	10,870.2	7,945.8	29.1	25.9	-28.15	-28.15	-2,469.0	-143.8	1,128.7	1,074.8	53.94	20.925	
11,685.0	8,939.8	10,955.2	7,946.0	29.5	26.1	-28.15	-28.15	-2,554.0	-144.5	1,128.7	1,073.6	55.06	20.500	
11,700.0	8,939.8	10,970.2	7,946.1	29.6	26.2	-28.15	-28.15	-2,569.0	-144.6	1,128.6	1,073.4	55.25	20.426	
11,780.0	8,939.9	11,050.2	7,946.3	30.0	26.5	-28.15	-28.15	-2,649.0	-145.3	1,128.6	1,072.3	56.32	20.040	
11,800.0	8,940.0	11,070.2	7,946.3	30.1	26.5	-28.15	-28.15	-2,669.0	-145.5	1,128.6	1,072.0	56.58	19.946	
11,875.0	8,940.1	11,145.2	7,946.5	30.5	26.8	-28.16	-28.16	-2,744.0	-146.1	1,128.5	1,070.9	57.58	19.597	
11,900.0	8,940.1	11,170.2	7,946.6	30.7	27.0	-28.16	-28.16	-2,769.0	-146.4	1,128.5	1,070.6	57.92	19.484	
11,970.0	8,940.2	11,240.2	7,946.8	31.1	27.3	-28.16	-28.16	-2,839.0	-147.0	1,128.4	1,069.6	58.86	19.170	
12,000.0	8,940.3	11,270.2	7,946.9	31.2	27.4	-28.16	-28.16	-2,869.0	-147.2	1,128.4	1,069.1	59.27	19.039	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-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		
12,065.0	8,940.4	11,335.2	7,947.0	31.6	27.8	-28.16	-2,934.0	-147.8	1,128.3	1,068.2	60.15	18.758		
12,100.0	8,940.4	11,370.2	7,947.1	31.8	28.0	-28.16	-2,969.0	-148.1	1,128.3	1,067.7	60.63	18.611		
12,160.0	8,940.5	11,430.2	7,947.3	32.1	28.3	-28.17	-3,029.0	-148.6	1,128.3	1,066.8	61.45	18.361		
12,200.0	8,940.6	11,470.2	7,947.4	32.4	28.6	-28.17	-3,069.0	-149.0	1,128.2	1,066.2	62.00	18.198		
12,255.0	8,940.7	11,525.2	7,947.6	32.7	28.9	-28.17	-3,124.0	-149.4	1,128.2	1,065.4	62.75	17.978		
12,300.0	8,940.8	11,570.2	7,947.7	33.0	29.2	-28.17	-3,169.0	-149.8	1,128.1	1,064.8	63.37	17.801		
12,350.0	8,940.9	11,620.2	7,947.8	33.2	29.5	-28.17	-3,219.0	-150.3	1,128.1	1,064.0	64.07	17.608		
12,400.0	8,940.9	11,670.2	7,947.9	33.5	29.8	-28.17	-3,269.0	-150.7	1,128.1	1,063.3	64.76	17.419		
12,445.0	8,941.0	11,715.2	7,948.1	33.8	30.1	-28.18	-3,314.0	-151.1	1,128.0	1,062.6	65.39	17.252		
12,500.0	8,941.1	11,770.2	7,948.2	34.1	30.5	-28.18	-3,369.0	-151.6	1,128.0	1,061.8	66.15	17.051		
12,540.0	8,941.2	11,810.2	7,948.3	34.4	30.7	-28.18	-3,409.0	-151.9	1,127.9	1,061.2	66.71	16.907		
12,600.0	8,941.3	11,870.2	7,948.5	34.7	31.1	-28.18	-3,469.0	-152.4	1,127.9	1,060.3	67.55	16.696		
12,635.0	8,941.3	11,905.2	7,948.6	35.0	31.4	-28.18	-3,504.0	-152.7	1,127.9	1,059.8	68.05	16.575		
12,700.0	8,941.4	11,970.2	7,948.7	35.4	31.8	-28.18	-3,569.0	-153.3	1,127.8	1,058.8	68.96	16.354		
12,730.0	8,941.5	12,000.2	7,948.8	35.5	32.0	-28.19	-3,599.0	-153.6	1,127.8	1,058.4	69.39	16.254		
12,800.0	8,941.6	12,070.2	7,949.0	36.0	32.5	-28.19	-3,669.0	-154.2	1,127.7	1,057.3	70.38	16.024		
12,825.0	8,941.6	12,095.2	7,949.1	36.1	32.6	-28.19	-3,694.0	-154.4	1,127.7	1,057.0	70.73	15.943		
12,900.0	8,941.7	12,170.2	7,949.3	36.6	33.2	-28.19	-3,769.0	-155.0	1,127.6	1,055.8	71.80	15.706		
12,920.0	8,941.8	12,190.2	7,949.3	36.7	33.3	-28.19	-3,789.0	-155.2	1,127.6	1,055.5	72.08	15.644		
13,000.0	8,941.9	12,270.2	7,949.6	37.2	33.9	-28.20	-3,869.0	-155.9	1,127.5	1,054.3	73.22	15.399		
13,015.0	8,941.9	12,285.2	7,949.6	37.3	34.0	-28.20	-3,884.0	-156.0	1,127.5	1,054.1	73.44	15.354		
13,100.0	8,942.1	12,370.2	7,949.8	37.9	34.6	-28.20	-3,969.0	-156.8	1,127.5	1,052.8	74.65	15.102		
13,110.0	8,942.1	12,380.2	7,949.8	37.9	34.6	-28.20	-3,979.0	-156.9	1,127.4	1,052.7	74.80	15.073		
13,200.0	8,942.2	12,470.2	7,950.1	38.5	35.3	-28.20	-4,069.0	-157.6	1,127.4	1,051.3	76.09	14.816		
13,205.0	8,942.2	12,475.2	7,950.1	38.5	35.3	-28.20	-4,074.0	-157.7	1,127.4	1,051.2	76.16	14.802		
13,300.0	8,942.4	12,570.2	7,950.4	39.1	36.0	-28.21	-4,169.0	-158.5	1,127.3	1,049.8	77.53	14.540		
13,395.0	8,942.5	12,665.2	7,950.6	39.8	36.7	-28.21	-4,264.0	-159.3	1,127.2	1,048.3	78.91	14.285		
13,400.0	8,942.5	12,670.2	7,950.6	39.8	36.7	-28.21	-4,269.0	-159.4	1,127.2	1,048.2	78.98	14.272		
13,490.0	8,942.7	12,760.2	7,950.9	40.4	37.3	-28.21	-4,359.0	-160.2	1,127.1	1,046.8	80.28	14.039		
13,500.0	8,942.7	12,770.2	7,950.9	40.5	37.4	-28.21	-4,369.0	-160.3	1,127.1	1,046.7	80.43	14.014		
13,585.0	8,942.8	12,855.2	7,951.1	41.0	38.0	-28.22	-4,453.9	-161.0	1,127.0	1,045.4	81.67	13.801		
13,600.0	8,942.9	12,870.2	7,951.2	41.1	38.1	-28.22	-4,468.9	-161.1	1,127.0	1,045.2	81.88	13.764		
13,680.0	8,943.0	12,950.2	7,951.4	41.6	38.7	-28.22	-4,548.9	-161.8	1,127.0	1,043.9	83.05	13.570		
13,700.0	8,943.0	12,970.2	7,951.4	41.8	38.8	-28.22	-4,568.9	-162.0	1,126.9	1,043.6	83.34	13.522		
13,775.0	8,943.2	13,045.2	7,951.6	42.3	39.4	-28.22	-4,643.9	-162.6	1,126.9	1,042.4	84.44	13.346		
13,800.0	8,943.2	13,070.2	7,951.7	42.4	39.6	-28.22	-4,668.9	-162.9	1,126.9	1,042.1	84.80	13.288		
13,870.0	8,943.3	13,140.2	7,951.9	42.9	40.1	-28.23	-4,738.9	-163.5	1,126.8	1,041.0	85.83	13.128		
13,900.0	8,943.4	13,170.2	7,952.0	43.1	40.3	-28.23	-4,768.9	-163.7	1,126.8	1,040.5	86.27	13.061		
13,965.0	8,943.5	13,235.2	7,952.1	43.5	40.8	-28.23	-4,833.9	-164.3	1,126.7	1,039.5	87.22	12.918		
14,000.0	8,943.5	13,270.2	7,952.2	43.8	41.0	-28.23	-4,868.9	-164.6	1,126.7	1,039.0	87.74	12.841		
14,060.0	8,943.6	13,330.2	7,952.4	44.2	41.5	-28.23	-4,928.9	-165.1	1,126.6	1,038.0	88.62	12.713		
14,100.0	8,943.7	13,370.2	7,952.5	44.5	41.7	-28.23	-4,968.9	-165.5	1,126.6	1,037.4	89.21	12.629		
14,155.0	8,943.8	13,425.2	7,952.7	44.8	42.1	-28.24	-5,023.9	-165.9	1,126.6	1,036.5	90.02	12.514		
14,200.0	8,943.8	13,470.2	7,952.8	45.1	42.5	-28.24	-5,068.9	-166.3	1,126.5	1,035.8	90.69	12.422		
14,250.0	8,943.9	13,520.2	7,952.9	45.5	42.8	-28.24	-5,118.9	-166.8	1,126.5	1,035.1	91.42	12.321		
14,300.0	8,944.0	13,570.2	7,953.0	45.8	43.2	-28.24	-5,168.9	-167.2	1,126.4	1,034.3	92.16	12.222		
14,345.0	8,944.1	13,615.2	7,953.2	46.1	43.5	-28.24	-5,213.9	-167.6	1,126.4	1,033.6	92.83	12.134		
14,400.0	8,944.2	13,670.2	7,953.3	46.5	43.9	-28.24	-5,268.9	-168.1	1,126.4	1,032.7	93.64	12.028		
14,440.0	8,944.2	13,710.2	7,953.4	46.8	44.2	-28.24	-5,308.9	-168.4	1,126.3	1,032.1	94.24	11.952		
14,500.0	8,944.3	13,770.2	7,953.6	47.2	44.7	-28.25	-5,368.9	-168.9	1,126.3	1,031.1	95.13	11.840		
14,535.0	8,944.4	13,805.2	7,953.7	47.4	44.9	-28.25	-5,403.9	-169.2	1,126.2	1,030.6	95.65	11.775		

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
14,600.0	8,944.5	13,870.2	7,953.8	47.9	45.4	-28.25	-5,468.9	-169.8	1,126.2	1,029.6	96.61	11.657	
14,630.0	8,944.5	13,900.2	7,953.9	48.1	45.6	-28.25	-5,498.9	-170.1	1,126.2	1,029.1	97.06	11.603	
14,700.0	8,944.6	13,970.2	7,954.1	48.6	46.1	-28.25	-5,568.9	-170.7	1,126.1	1,028.0	98.10	11.479	
14,725.0	8,944.7	13,995.2	7,954.2	48.7	46.3	-28.25	-5,593.9	-170.9	1,126.1	1,027.6	98.47	11.435	
14,800.0	8,944.8	14,070.2	7,954.4	49.3	46.9	-28.26	-5,668.9	-171.5	1,126.0	1,026.4	99.59	11.306	
14,820.0	8,944.8	14,090.2	7,954.4	49.4	47.0	-28.26	-5,688.9	-171.7	1,126.0	1,026.1	99.89	11.272	
14,900.0	8,945.0	14,170.2	7,954.7	50.0	47.6	-28.26	-5,768.9	-172.4	1,125.9	1,024.8	101.08	11.139	
14,915.0	8,945.0	14,185.2	7,954.7	50.1	47.7	-28.26	-5,783.9	-172.5	1,125.9	1,024.6	101.31	11.114	
15,000.0	8,945.1	14,270.2	7,954.9	50.7	48.4	-28.26	-5,868.9	-173.3	1,125.8	1,023.3	102.58	10.976	
15,010.0	8,945.1	14,280.2	7,954.9	50.7	48.4	-28.26	-5,878.9	-173.4	1,125.8	1,023.1	102.73	10.960	
15,100.0	8,945.3	14,370.2	7,955.2	51.4	49.1	-28.27	-5,968.9	-174.1	1,125.8	1,021.7	104.07	10.817	
15,105.0	8,945.3	14,375.2	7,955.2	51.4	49.1	-28.27	-5,973.9	-174.2	1,125.8	1,021.6	104.15	10.809	
15,200.0	8,945.5	14,470.2	7,955.5	52.1	49.8	-28.27	-6,068.9	-175.0	1,125.7	1,020.1	105.57	10.663	
15,295.0	8,945.6	14,565.2	7,955.7	52.7	50.5	-28.27	-6,163.9	-175.8	1,125.6	1,018.6	107.00	10.520	
15,300.0	8,945.6	14,570.2	7,955.7	52.8	50.6	-28.27	-6,168.9	-175.9	1,125.6	1,018.5	107.07	10.512	
15,390.0	8,945.8	14,660.2	7,956.0	53.4	51.3	-28.28	-6,258.9	-176.7	1,125.5	1,017.1	108.42	10.381	
15,400.0	8,945.8	14,670.2	7,956.0	53.5	51.3	-28.28	-6,268.9	-176.7	1,125.5	1,016.9	108.57	10.366	
15,485.0	8,945.9	14,755.2	7,956.2	54.1	52.0	-28.28	-6,353.9	-177.5	1,125.4	1,015.6	109.85	10.245	
15,500.0	8,945.9	14,770.2	7,956.3	54.2	52.1	-28.28	-6,368.9	-177.6	1,125.4	1,015.3	110.08	10.224	
15,580.0	8,946.1	14,850.2	7,956.5	54.7	52.7	-28.28	-6,448.9	-178.3	1,125.4	1,014.1	111.28	10.113	
15,600.0	8,946.1	14,870.2	7,956.5	54.9	52.8	-28.28	-6,468.9	-178.5	1,125.3	1,013.8	111.58	10.085	
15,675.0	8,946.2	14,945.2	7,956.7	55.4	53.4	-28.29	-6,543.9	-179.1	1,125.3	1,012.6	112.71	9.984	
15,700.0	8,946.3	14,970.2	7,956.8	55.6	53.6	-28.29	-6,568.9	-179.4	1,125.3	1,012.2	113.09	9.950	
15,770.0	8,946.4	15,040.2	7,957.0	56.1	54.1	-28.29	-6,638.9	-180.0	1,125.2	1,011.1	114.14	9.858	
15,800.0	8,946.4	15,070.2	7,957.1	56.3	54.3	-28.29	-6,668.9	-180.2	1,125.2	1,010.6	114.60	9.818	
15,865.0	8,946.5	15,135.2	7,957.2	56.8	54.8	-28.29	-6,733.9	-180.8	1,125.1	1,009.5	115.58	9.735	
15,900.0	8,946.6	15,170.2	7,957.3	57.0	55.0	-28.30	-6,768.8	-181.1	1,125.1	1,009.0	116.11	9.690	
15,960.0	8,946.7	15,230.2	7,957.5	57.4	55.5	-28.30	-6,828.8	-181.6	1,125.0	1,008.0	117.01	9.615	
16,000.0	8,946.7	15,270.2	7,957.6	57.7	55.8	-28.30	-6,868.8	-182.0	1,125.0	1,007.4	117.62	9.565	
16,055.0	8,946.8	15,325.2	7,957.7	58.1	56.2	-28.30	-6,923.8	-182.4	1,125.0	1,006.5	118.45	9.497	
16,100.0	8,946.9	15,370.2	7,957.9	58.5	56.5	-28.30	-6,968.8	-182.8	1,124.9	1,005.8	119.13	9.443	
16,150.0	8,947.0	15,420.2	7,958.0	58.8	56.9	-28.30	-7,018.8	-183.3	1,124.9	1,005.0	119.89	9.383	
16,200.0	8,947.1	15,470.2	7,958.1	59.2	57.3	-28.31	-7,068.8	-183.7	1,124.8	1,004.2	120.64	9.324	
16,245.0	8,947.1	15,515.2	7,958.3	59.5	57.6	-28.31	-7,113.8	-184.1	1,124.8	1,003.5	121.32	9.271	
16,300.0	8,947.2	15,570.2	7,958.4	59.9	58.0	-28.31	-7,168.8	-184.6	1,124.7	1,002.6	122.16	9.207	
16,340.0	8,947.3	15,610.2	7,958.5	60.2	58.3	-28.31	-7,208.8	-184.9	1,124.7	1,002.0	122.76	9.162	
16,400.0	8,947.4	15,670.2	7,958.7	60.6	58.8	-28.31	-7,268.8	-185.4	1,124.7	1,001.0	123.67	9.094	
16,435.0	8,947.5	15,705.2	7,958.8	60.9	59.0	-28.31	-7,303.8	-185.7	1,124.6	1,000.4	124.20	9.055	
16,500.0	8,947.6	15,770.2	7,958.9	61.3	59.5	-28.32	-7,368.8	-186.3	1,124.6	999.4	125.19	8.983	
16,530.0	8,947.6	15,800.2	7,959.0	61.5	59.8	-28.32	-7,398.8	-186.6	1,124.6	998.9	125.65	8.950	
16,600.0	8,947.7	15,870.2	7,959.2	62.1	60.3	-28.32	-7,468.8	-187.2	1,124.5	997.8	126.71	8.875	
16,625.0	8,947.8	15,895.2	7,959.3	62.2	60.5	-28.32	-7,493.8	-187.4	1,124.5	997.4	127.09	8.848	
16,700.0	8,947.9	15,970.2	7,959.5	62.8	61.0	-28.32	-7,568.8	-188.0	1,124.4	996.2	128.23	8.769	
16,720.0	8,947.9	15,990.2	7,959.5	62.9	61.2	-28.32	-7,588.8	-188.2	1,124.4	995.9	128.53	8.748	
16,800.0	8,948.0	16,070.2	7,959.7	63.5	61.8	-28.33	-7,668.8	-188.9	1,124.3	994.6	129.75	8.666	
16,815.0	8,948.1	16,085.2	7,959.8	63.6	61.9	-28.33	-7,683.8	-189.0	1,124.3	994.3	129.97	8.650	
16,900.0	8,948.2	16,170.2	7,960.0	64.2	62.5	-28.33	-7,768.8	-189.8	1,124.2	993.0	131.27	8.564	
16,910.0	8,948.2	16,180.2	7,960.0	64.3	62.6	-28.33	-7,778.8	-189.9	1,124.2	992.8	131.42	8.555	
17,000.0	8,948.4	16,270.2	7,960.3	64.9	63.3	-28.33	-7,868.8	-190.6	1,124.2	991.4	132.79	8.466	
17,005.0	8,948.4	16,275.2	7,960.3	65.0	63.3	-28.33	-7,873.8	-190.7	1,124.2	991.3	132.87	8.461	
17,100.0	8,948.5	16,370.2	7,960.6	65.7	64.0	-28.34	-7,968.8	-191.5	1,124.1	989.8	134.31	8.369	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
17,195.0	8,948.7	16,465.2	7,960.8	66.4	64.7	-28.34	-8,063.8	-192.3	1,124.0	988.2	135.76	8.279
17,200.0	8,948.7	16,470.2	7,960.8	66.4	64.8	-28.34	-8,068.8	-192.4	1,124.0	988.2	135.84	8.275
17,290.0	8,948.8	16,560.2	7,961.1	67.1	65.5	-28.34	-8,158.8	-193.2	1,123.9	986.7	137.21	8.191
17,300.0	8,948.8	16,570.2	7,961.1	67.1	65.5	-28.34	-8,168.8	-193.2	1,123.9	986.5	137.36	8.182
17,385.0	8,949.0	16,655.2	7,961.3	67.8	66.2	-28.35	-8,253.8	-194.0	1,123.8	985.2	138.66	8.105
17,400.0	8,949.0	16,670.2	7,961.4	67.9	66.3	-28.35	-8,268.8	-194.1	1,123.8	984.9	138.89	8.092
17,480.0	8,949.1	16,750.2	7,961.6	68.4	66.9	-28.35	-8,348.8	-194.8	1,123.7	983.6	140.11	8.021
17,500.0	8,949.2	16,770.2	7,961.6	68.6	67.0	-28.35	-8,368.8	-195.0	1,123.7	983.3	140.41	8.003
17,575.0	8,949.3	16,845.2	7,961.8	69.1	67.6	-28.35	-8,443.8	-195.6	1,123.7	982.1	141.56	7.938
17,600.0	8,949.3	16,870.2	7,961.9	69.3	67.8	-28.35	-8,468.8	-195.8	1,123.6	981.7	141.94	7.916
17,670.0	8,949.4	16,940.2	7,962.1	69.8	68.3	-28.36	-8,538.8	-196.5	1,123.6	980.6	143.01	7.857
17,700.0	8,949.5	16,970.2	7,962.2	70.1	68.5	-28.36	-8,568.8	-196.7	1,123.6	980.1	143.47	7.832
17,765.0	8,949.6	17,035.2	7,962.3	70.5	69.0	-28.36	-8,633.8	-197.3	1,123.5	979.0	144.46	7.777
17,800.0	8,949.7	17,070.2	7,962.4	70.8	69.3	-28.36	-8,668.8	-197.6	1,123.5	978.5	144.99	7.748
17,860.0	8,949.8	17,130.2	7,962.6	71.2	69.7	-28.36	-8,728.8	-198.1	1,123.4	977.5	145.91	7.699
17,900.0	8,949.8	17,170.2	7,962.7	71.5	70.0	-28.36	-8,768.8	-198.4	1,123.4	976.9	146.52	7.667
17,955.0	8,949.9	17,225.2	7,962.8	71.9	70.5	-28.37	-8,823.8	-198.9	1,123.3	976.0	147.36	7.623
18,000.0	8,950.0	17,270.2	7,963.0	72.3	70.8	-28.37	-8,868.8	-199.3	1,123.3	975.3	148.05	7.587
18,050.0	8,950.1	17,320.2	7,963.1	72.6	71.2	-28.37	-8,918.8	-199.8	1,123.3	974.4	148.82	7.548
18,100.0	8,950.1	17,370.2	7,963.2	73.0	71.6	-28.37	-8,968.8	-200.2	1,123.2	973.6	149.58	7.509
18,145.0	8,950.2	17,415.2	7,963.4	73.3	71.9	-28.37	-9,013.8	-200.6	1,123.2	972.9	150.27	7.474
18,200.0	8,950.3	17,470.2	7,963.5	73.7	72.3	-28.37	-9,068.8	-201.1	1,123.1	972.0	151.11	7.432
18,240.0	8,950.4	17,510.2	7,963.6	74.0	72.6	-28.38	-9,108.8	-201.4	1,123.1	971.4	151.73	7.402
18,300.0	8,950.5	17,570.2	7,963.8	74.5	73.1	-28.38	-9,168.7	-201.9	1,123.1	970.4	152.65	7.357
18,335.0	8,950.5	17,605.2	7,963.9	74.7	73.3	-28.38	-9,203.7	-202.2	1,123.0	969.8	153.18	7.331
18,400.0	8,950.6	17,670.2	7,964.0	75.2	73.8	-28.38	-9,268.7	-202.8	1,123.0	968.8	154.18	7.284
18,430.0	8,950.7	17,700.2	7,964.1	75.4	74.0	-28.38	-9,298.7	-203.0	1,122.9	968.3	154.64	7.262
18,500.0	8,950.8	17,770.2	7,964.3	75.9	74.6	-28.39	-9,368.7	-203.7	1,122.9	967.2	155.71	7.211
18,525.0	8,950.8	17,795.2	7,964.4	76.1	74.8	-28.39	-9,393.7	-203.9	1,122.9	966.8	156.09	7.194
18,600.0	8,950.9	17,870.2	7,964.6	76.7	75.3	-28.39	-9,468.7	-204.5	1,122.8	965.6	157.24	7.141
18,620.0	8,951.0	17,890.2	7,964.6	76.8	75.5	-28.39	-9,488.7	-204.7	1,122.8	965.2	157.55	7.126
18,700.0	8,951.1	17,970.2	7,964.8	77.4	76.1	-28.39	-9,568.7	-205.4	1,122.7	963.9	158.78	7.071
18,715.0	8,951.1	17,985.2	7,964.9	77.5	76.2	-28.39	-9,583.7	-205.5	1,122.7	963.7	159.01	7.061
18,800.0	8,951.3	18,070.2	7,965.1	78.1	76.8	-28.40	-9,668.7	-206.3	1,122.6	962.3	160.31	7.003
18,810.0	8,951.3	18,080.2	7,965.1	78.2	76.9	-28.40	-9,678.7	-206.3	1,122.6	962.2	160.47	6.996
18,900.0	8,951.4	18,170.2	7,965.4	78.9	77.6	-28.40	-9,768.7	-207.1	1,122.5	960.7	161.85	6.936
18,905.0	8,951.4	18,175.2	7,965.4	78.9	77.6	-28.40	-9,773.7	-207.2	1,122.5	960.6	161.92	6.933
19,000.0	8,951.6	18,270.2	7,965.6	79.6	78.3	-28.40	-9,868.7	-208.0	1,122.5	959.1	163.38	6.870
19,095.0	8,951.7	18,365.2	7,965.9	80.3	79.1	-28.41	-9,963.7	-208.8	1,122.4	957.5	164.84	6.809
19,100.0	8,951.8	18,370.2	7,965.9	80.4	79.1	-28.41	-9,968.7	-208.9	1,122.4	957.5	164.92	6.806
19,190.0	8,951.9	18,460.2	7,966.2	81.0	79.8	-28.41	-10,058.7	-209.6	1,122.3	956.0	166.30	6.749
19,200.0	8,951.9	18,470.2	7,966.2	81.1	79.9	-28.41	-10,068.7	-209.7	1,122.3	955.8	166.46	6.742
19,285.0	8,952.1	18,555.2	7,966.4	81.7	80.5	-28.41	-10,153.7	-210.5	1,122.2	954.5	167.76	6.689
19,300.0	8,952.1	18,570.2	7,966.5	81.8	80.6	-28.41	-10,168.7	-210.6	1,122.2	954.2	167.99	6.680
19,380.0	8,952.2	18,650.2	7,966.7	82.4	81.2	-28.42	-10,248.7	-211.3	1,122.1	952.9	169.22	6.631
19,400.0	8,952.2	18,670.2	7,966.7	82.6	81.4	-28.42	-10,268.7	-211.5	1,122.1	952.6	169.53	6.619
19,475.0	8,952.4	18,745.2	7,966.9	83.1	81.9	-28.42	-10,343.7	-212.1	1,122.1	951.4	170.68	6.574
19,500.0	8,952.4	18,770.2	7,967.0	83.3	82.1	-28.42	-10,368.7	-212.3	1,122.0	951.0	171.07	6.559
19,570.0	8,952.5	18,840.2	7,967.2	83.8	82.7	-28.42	-10,438.7	-212.9	1,122.0	949.8	172.14	6.518
19,600.0	8,952.6	18,870.2	7,967.3	84.1	82.9	-28.42	-10,468.7	-213.2	1,122.0	949.4	172.60	6.500
19,665.0	8,952.7	18,935.2	7,967.4	84.6	83.4	-28.43	-10,533.7	-213.8	1,121.9	948.3	173.60	6.462

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-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
19,700.0	8,952.7	18,970.2	7,967.5	84.8	83.6	-28.43	-10,568.7	-214.1	1,121.9	947.7	174.14	6.442	
19,760.0	8,952.8	19,030.2	7,967.7	85.3	84.1	-28.43	-10,628.7	-214.6	1,121.8	946.8	175.07	6.408	
19,800.0	8,952.9	19,070.2	7,967.8	85.6	84.4	-28.43	-10,668.7	-214.9	1,121.8	946.1	175.68	6.385	
19,855.0	8,953.0	19,125.2	7,967.9	86.0	84.8	-28.43	-10,723.7	-215.4	1,121.7	945.2	176.53	6.354	
19,900.0	8,953.0	19,170.2	7,968.1	86.3	85.2	-28.43	-10,768.7	-215.8	1,121.7	944.5	177.22	6.329	
19,950.0	8,953.1	19,220.2	7,968.2	86.7	85.5	-28.44	-10,818.7	-216.2	1,121.7	943.7	177.99	6.302	
20,000.0	8,953.2	19,270.2	7,968.3	87.0	85.9	-28.44	-10,868.7	-216.7	1,121.6	942.9	178.76	6.274	
20,045.0	8,953.3	19,315.2	7,968.5	87.4	86.2	-28.44	-10,913.7	-217.1	1,121.6	942.1	179.45	6.250	
20,100.0	8,953.4	19,370.2	7,968.6	87.8	86.7	-28.44	-10,968.7	-217.5	1,121.5	941.2	180.30	6.220	
20,140.0	8,953.4	19,410.2	7,968.7	88.1	87.0	-28.44	-11,008.7	-217.9	1,121.5	940.6	180.92	6.199	
20,200.0	8,953.5	19,470.2	7,968.9	88.5	87.4	-28.44	-11,068.7	-218.4	1,121.4	939.6	181.84	6.167	
20,235.0	8,953.6	19,505.2	7,969.0	88.8	87.7	-28.45	-11,103.7	-218.7	1,121.4	939.0	182.38	6.149	
20,300.0	8,953.7	19,570.2	7,969.1	89.3	88.2	-28.45	-11,168.7	-219.3	1,121.4	938.0	183.38	6.115	
20,330.0	8,953.7	19,600.2	7,969.2	89.5	88.4	-28.45	-11,198.7	-219.5	1,121.3	937.5	183.84	6.099	
20,400.0	8,953.9	19,670.2	7,969.4	90.0	88.9	-28.45	-11,268.7	-220.2	1,121.3	936.4	184.92	6.063	
20,425.0	8,953.9	19,695.2	7,969.5	90.2	89.1	-28.45	-11,293.7	-220.4	1,121.3	936.0	185.31	6.051	
20,500.0	8,954.0	19,770.2	7,969.7	90.8	89.7	-28.45	-11,368.7	-221.0	1,121.2	934.7	186.46	6.013	
20,520.0	8,954.1	19,790.2	7,969.7	90.9	89.8	-28.46	-11,388.7	-221.2	1,121.2	934.4	186.77	6.003	
20,600.0	8,954.2	19,870.2	7,969.9	91.5	90.5	-28.46	-11,468.7	-221.9	1,121.1	933.1	188.01	5.963	
20,615.0	8,954.2	19,885.2	7,970.0	91.6	90.6	-28.46	-11,483.7	-222.0	1,121.1	932.9	188.24	5.956	
20,700.0	8,954.3	19,970.2	7,970.2	92.3	91.2	-28.46	-11,568.6	-222.8	1,121.0	931.5	189.55	5.914	
20,710.0	8,954.4	19,980.2	7,970.2	92.3	91.3	-28.46	-11,578.6	-222.8	1,121.0	931.3	189.70	5.909	
20,800.0	8,954.5	20,070.2	7,970.5	93.0	92.0	-28.47	-11,668.6	-223.6	1,120.9	929.9	191.09	5.866	
20,805.0	8,954.5	20,075.2	7,970.5	93.0	92.0	-28.47	-11,673.6	-223.7	1,120.9	929.8	191.17	5.864	
20,900.0	8,954.7	20,170.2	7,970.7	93.7	92.7	-28.47	-11,768.6	-224.5	1,120.9	928.2	192.63	5.819	
20,995.0	8,954.8	20,265.2	7,971.0	94.5	93.4	-28.47	-11,863.6	-225.3	1,120.8	926.7	194.10	5.774	
21,000.0	8,954.8	20,270.2	7,971.0	94.5	93.5	-28.47	-11,868.6	-225.4	1,120.8	926.6	194.18	5.772	
21,090.0	8,955.0	20,360.2	7,971.3	95.2	94.2	-28.48	-11,958.6	-226.1	1,120.7	925.1	195.57	5.731	
21,100.0	8,955.0	20,370.2	7,971.3	95.2	94.2	-28.48	-11,968.6	-226.2	1,120.7	925.0	195.72	5.726	
21,185.0	8,955.1	20,455.2	7,971.5	95.9	94.9	-28.48	-12,053.6	-227.0	1,120.6	923.6	197.03	5.688	
21,200.0	8,955.1	20,470.2	7,971.6	96.0	95.0	-28.48	-12,068.6	-227.1	1,120.6	923.3	197.26	5.681	
21,280.0	8,955.3	20,550.2	7,971.8	96.6	95.6	-28.48	-12,148.6	-227.8	1,120.5	922.0	198.50	5.645	
21,300.0	8,955.3	20,570.2	7,971.8	96.7	95.8	-28.48	-12,168.6	-228.0	1,120.5	921.7	198.81	5.636	
21,375.0	8,955.4	20,645.2	7,972.0	97.3	96.3	-28.49	-12,243.6	-228.6	1,120.5	920.5	199.96	5.603	
21,400.0	8,955.5	20,670.2	7,972.1	97.5	96.5	-28.49	-12,268.6	-228.8	1,120.4	920.1	200.35	5.592	
21,470.0	8,955.6	20,740.2	7,972.3	98.0	97.0	-28.49	-12,338.6	-229.4	1,120.4	918.9	201.43	5.562	
21,500.0	8,955.6	20,770.2	7,972.4	98.2	97.3	-28.49	-12,368.6	-229.7	1,120.4	918.5	201.90	5.549	
21,565.0	8,955.7	20,835.2	7,972.5	98.7	97.8	-28.49	-12,433.6	-230.3	1,120.3	917.4	202.90	5.521	
21,600.0	8,955.8	20,870.2	7,972.6	99.0	98.0	-28.49	-12,468.6	-230.6	1,120.3	916.8	203.44	5.507	
21,660.0	8,955.9	20,930.2	7,972.8	99.4	98.5	-28.50	-12,528.6	-231.1	1,120.2	915.9	204.37	5.481	
21,700.0	8,956.0	20,970.2	7,972.9	99.7	98.8	-28.50	-12,568.6	-231.4	1,120.2	915.2	204.98	5.465	
21,755.0	8,956.0	21,025.2	7,973.0	100.1	99.2	-28.50	-12,623.6	-231.9	1,120.1	914.3	205.83	5.442	
21,800.0	8,956.1	21,070.2	7,973.2	100.5	99.6	-28.50	-12,668.6	-232.3	1,120.1	913.6	206.53	5.423	
21,850.0	8,956.2	21,120.2	7,973.3	100.9	99.9	-28.50	-12,718.6	-232.7	1,120.1	912.8	207.30	5.403	
21,900.0	8,956.3	21,170.2	7,973.4	101.2	100.3	-28.50	-12,768.6	-233.2	1,120.0	911.9	208.07	5.383	
21,945.0	8,956.4	21,215.2	7,973.5	101.6	100.7	-28.51	-12,813.6	-233.6	1,120.0	911.2	208.77	5.365	
22,000.0	8,956.4	21,270.2	7,973.7	102.0	101.1	-28.51	-12,868.6	-234.0	1,119.9	910.3	209.62	5.343	
22,040.0	8,956.5	21,310.2	7,973.8	102.3	101.4	-28.51	-12,908.6	-234.4	1,119.9	909.7	210.24	5.327	
22,100.0	8,956.6	21,370.2	7,974.0	102.7	101.8	-28.51	-12,968.6	-234.9	1,119.8	908.7	211.17	5.303	
22,135.0	8,956.7	21,405.2	7,974.1	103.0	102.1	-28.51	-13,003.6	-235.2	1,119.8	908.1	211.71	5.289	
22,200.0	8,956.8	21,470.2	7,974.2	103.5	102.6	-28.51	-13,068.6	-235.8	1,119.8	907.0	212.71	5.264	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7437-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured	Depth	Vertical	Measured	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	
										(usft)	(usft)		
22,230.0	8,956.8	21,500.2	7,974.3	103.7	102.8	-28.52	-13,098.6	-236.0	1,119.7	906.6	213.18	5.253	
22,300.0	8,956.9	21,570.2	7,974.5	104.2	103.3	-28.52	-13,168.6	-236.6	1,119.7	905.4	214.26	5.226	
22,325.0	8,957.0	21,595.2	7,974.6	104.4	103.5	-28.52	-13,193.6	-236.9	1,119.7	905.0	214.64	5.216	
22,400.0	8,957.1	21,670.2	7,974.8	105.0	104.1	-28.52	-13,268.6	-237.5	1,119.6	903.8	215.80	5.188	
22,420.0	8,957.1	21,690.2	7,974.8	105.1	104.3	-28.52	-13,288.6	-237.7	1,119.6	903.5	216.11	5.180	
22,500.0	8,957.2	21,770.2	7,975.0	105.7	104.9	-28.52	-13,368.6	-238.4	1,119.5	902.2	217.35	5.151	
22,515.0	8,957.3	21,785.2	7,975.1	105.8	105.0	-28.53	-13,383.6	-238.5	1,119.5	901.9	217.58	5.145	
22,600.0	8,957.4	21,870.2	7,975.3	106.5	105.6	-28.53	-13,468.6	-239.2	1,119.4	900.5	218.90	5.114	
22,610.0	8,957.4	21,880.2	7,975.3	106.6	105.7	-28.53	-13,478.6	-239.3	1,119.4	900.4	219.05	5.110	
22,700.0	8,957.6	21,970.2	7,975.6	107.2	106.4	-28.53	-13,568.6	-240.1	1,119.3	898.9	220.45	5.078	
22,705.0	8,957.6	21,975.2	7,975.6	107.3	106.4	-28.53	-13,573.6	-240.2	1,119.3	898.8	220.52	5.076	
22,800.0	8,957.7	22,070.2	7,975.8	108.0	107.1	-28.54	-13,668.6	-241.0	1,119.3	897.3	221.99	5.042	
22,895.0	8,957.9	22,165.2	7,976.1	108.7	107.9	-28.54	-13,763.6	-241.8	1,119.2	895.7	223.46	5.008	
22,900.0	8,957.9	22,170.2	7,976.1	108.7	107.9	-28.54	-13,768.6	-241.9	1,119.2	895.6	223.54	5.007	
22,990.0	8,958.0	22,260.2	7,976.4	109.4	108.6	-28.54	-13,858.6	-242.6	1,119.1	894.2	224.93	4.975	
23,000.0	8,958.1	22,270.2	7,976.4	109.5	108.7	-28.54	-13,868.6	-242.7	1,119.1	894.0	225.09	4.972	
23,085.0	8,958.2	22,355.2	7,976.6	110.1	109.3	-28.54	-13,953.5	-243.5	1,119.0	892.6	226.40	4.943	
23,100.0	8,958.2	22,370.2	7,976.6	110.2	109.4	-28.55	-13,968.5	-243.6	1,119.0	892.4	226.63	4.937	
23,180.0	8,958.3	22,450.2	7,976.9	110.8	110.0	-28.55	-14,048.5	-244.3	1,118.9	891.1	227.87	4.910	
23,200.0	8,958.4	22,470.2	7,976.9	111.0	110.2	-28.55	-14,068.5	-244.5	1,118.9	890.7	228.18	4.904	
23,275.0	8,958.5	22,545.2	7,977.1	111.5	110.8	-28.55	-14,143.5	-245.1	1,118.9	889.5	229.34	4.878	
23,300.0	8,958.5	22,570.2	7,977.2	111.7	110.9	-28.55	-14,168.5	-245.3	1,118.8	889.1	229.73	4.870	
23,370.0	8,958.7	22,640.2	7,977.4	112.3	111.5	-28.55	-14,238.5	-245.9	1,118.8	888.0	230.81	4.847	
23,400.0	8,958.7	22,670.2	7,977.5	112.5	111.7	-28.56	-14,268.5	-246.2	1,118.7	887.5	231.28	4.837	
23,465.0	8,958.8	22,735.2	7,977.6	113.0	112.2	-28.56	-14,333.5	-246.8	1,118.7	886.4	232.29	4.816	
23,500.0	8,958.9	22,770.2	7,977.7	113.2	112.5	-28.56	-14,368.5	-247.1	1,118.7	885.8	232.83	4.805	
23,560.0	8,959.0	22,830.2	7,977.9	113.7	112.9	-28.56	-14,428.5	-247.6	1,118.6	884.9	233.76	4.785	
23,600.0	8,959.0	22,870.2	7,978.0	114.0	113.2	-28.56	-14,468.5	-247.9	1,118.6	884.2	234.38	4.773	
23,655.0	8,959.1	22,925.2	7,978.1	114.4	113.6	-28.56	-14,523.5	-248.4	1,118.5	883.3	235.23	4.755	
23,700.0	8,959.2	22,970.2	7,978.3	114.7	114.0	-28.57	-14,568.5	-248.8	1,118.5	882.6	235.93	4.741	
23,750.0	8,959.3	23,020.2	7,978.4	115.1	114.4	-28.57	-14,618.5	-249.2	1,118.5	881.8	236.70	4.725	
23,800.0	8,959.3	23,070.2	7,978.5	115.5	114.7	-28.57	-14,668.5	-249.7	1,118.4	880.9	237.47	4.710	
23,845.0	8,959.4	23,115.2	7,978.6	115.8	115.1	-28.57	-14,713.5	-250.1	1,118.4	880.2	238.17	4.696	
23,900.0	8,959.5	23,170.2	7,978.8	116.3	115.5	-28.57	-14,768.5	-250.5	1,118.3	879.3	239.02	4.679	
23,940.0	8,959.6	23,210.2	7,978.9	116.6	115.8	-28.57	-14,808.5	-250.9	1,118.3	878.7	239.64	4.667	
24,000.0	8,959.7	23,270.2	7,979.1	117.0	116.3	-28.58	-14,868.5	-251.4	1,118.2	877.7	240.57	4.648	
24,035.0	8,959.7	23,305.2	7,979.2	117.3	116.5	-28.58	-14,903.5	-251.7	1,118.2	877.1	241.11	4.638	
24,072.6	8,959.8	23,342.8	7,979.3	117.5	116.8	-28.58	-14,941.1	-252.0	1,118.2	876.5	241.70	4.626	
24,100.0	8,959.8	23,370.2	7,979.3	117.8	117.0	-28.58	-14,968.5	-252.3	1,118.2	876.0	242.12	4.618	
24,130.0	8,959.9	23,400.2	7,979.4	118.0	117.3	-28.58	-14,998.5	-252.5	1,118.1	875.5	242.59	4.609	
24,202.6	8,960.0	23,472.8	7,979.6	118.5	117.8	-28.58	-15,071.1	-253.2	1,118.1	874.4	243.71	4.588 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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation 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	92.9	92.9	3.0	3.0	88.98	1.6	90.0	90.0	84.0	6.04	14.915		
100.0	100.0	97.9	97.9	3.0	3.0	88.98	1.6	90.0	90.0	84.0	6.04	14.903		
190.0	190.0	187.9	187.9	3.1	3.1	88.98	1.6	90.0	90.0	83.8	6.25	14.405		
200.0	200.0	197.9	197.9	3.1	3.1	88.98	1.6	90.0	90.0	83.7	6.28	14.328		
285.0	285.0	282.9	282.9	3.3	3.2	88.98	1.6	90.0	90.0	83.5	6.48	13.891		
300.0	300.0	297.9	297.9	3.3	3.3	88.98	1.6	90.0	90.0	83.5	6.52	13.807		
380.0	380.0	377.9	377.9	3.4	3.4	88.98	1.6	90.0	90.0	83.3	6.70	13.436		
400.0	400.0	397.9	397.9	3.4	3.4	88.98	1.6	90.0	90.0	83.3	6.75	13.340		
475.0	475.0	472.9	472.9	3.5	3.5	88.98	1.6	90.0	90.0	83.1	6.91	13.025		
500.0	500.0	497.9	497.9	3.5	3.5	88.98	1.6	90.0	90.0	83.0	6.97	12.918		
570.0	570.0	567.9	567.9	3.6	3.6	88.98	1.6	90.0	90.0	82.9	7.12	12.649		
600.0	600.0	597.9	597.9	3.6	3.6	88.98	1.6	90.0	90.0	82.8	7.18	12.533		
665.0	665.0	662.9	662.9	3.7	3.7	88.98	1.6	90.0	90.0	82.7	7.32	12.304		
700.0	700.0	697.9	697.9	3.8	3.8	88.98	1.6	90.0	90.0	82.6	7.39	12.181		
760.0	760.0	757.9	757.9	3.8	3.8	88.98	1.6	90.0	90.0	82.5	7.51	11.986		
800.0	800.0	797.9	797.9	3.9	3.9	88.98	1.6	90.0	90.0	82.4	7.59	11.857		
855.0	855.0	852.9	852.9	4.0	3.9	88.98	1.6	90.0	90.0	82.3	7.70	11.692		
900.0	900.0	897.9	897.9	4.0	4.0	88.98	1.6	90.0	90.0	82.2	7.79	11.557		
950.0	950.0	947.9	947.9	4.1	4.1	88.98	1.6	90.0	90.0	82.1	7.88	11.418		
1,000.0	1,000.0	997.9	997.9	4.1	4.1	88.98	1.6	90.0	90.0	82.0	7.98	11.280		
1,045.0	1,045.0	1,042.9	1,042.9	4.2	4.2	88.98	1.6	90.0	90.0	82.0	8.06	11.163		
1,100.0	1,100.0	1,097.9	1,097.9	4.2	4.2	88.98	1.6	90.0	90.0	81.8	8.17	11.021		
1,140.0	1,140.0	1,137.9	1,137.9	4.3	4.3	88.98	1.6	90.0	90.0	81.8	8.24	10.924		
1,200.0	1,200.0	1,197.9	1,197.9	4.4	4.4	88.98	1.6	90.0	90.0	81.7	8.35	10.779		
1,235.0	1,235.0	1,232.9	1,232.9	4.4	4.4	88.98	1.6	90.0	90.0	81.6	8.41	10.699		
1,300.0	1,300.0	1,297.9	1,297.9	4.5	4.5	88.98	1.6	90.0	90.0	81.5	8.53	10.553		
1,330.0	1,330.0	1,327.9	1,327.9	4.5	4.5	88.98	1.6	90.0	90.0	81.4	8.58	10.488		
1,400.0	1,400.0	1,397.9	1,397.9	4.6	4.6	88.98	1.6	90.0	90.0	81.3	8.71	10.340		
1,425.0	1,425.0	1,422.9	1,422.9	4.6	4.6	88.98	1.6	90.0	90.0	81.3	8.75	10.289		
1,500.0	1,500.0	1,497.9	1,497.9	4.7	4.7	88.98	1.6	90.0	90.0	81.1	8.88	10.140 CC, ES		
1,520.0	1,520.0	1,517.4	1,517.4	4.7	4.7	149.81	1.6	90.0	90.1	81.2	8.94	10.079 SF		
1,600.0	1,600.0	1,595.2	1,595.1	4.9	4.8	149.85	2.4	91.4	93.0	83.8	9.20	10.100		
1,615.0	1,615.0	1,609.7	1,609.7	4.9	4.9	149.86	2.6	91.8	93.9	84.7	9.27	10.128		
1,700.0	1,699.8	1,691.8	1,691.7	5.1	5.0	149.94	4.7	95.6	101.9	92.2	9.69	10.517		
1,710.0	1,709.8	1,700.0	1,699.8	5.1	5.1	149.94	4.9	96.1	103.2	93.4	9.73	10.601		
1,800.0	1,799.5	1,787.5	1,787.0	5.3	5.3	150.02	8.5	102.7	116.8	106.6	10.19	11.463		
1,805.0	1,804.4	1,792.2	1,791.7	5.3	5.3	150.02	8.7	103.1	117.7	107.5	10.22	11.523		
1,900.0	1,898.7	1,881.6	1,880.5	5.6	5.6	150.06	13.7	112.3	137.6	126.9	10.71	12.852		
1,995.0	1,992.5	1,969.2	1,967.1	5.9	5.8	150.06	19.9	123.7	162.6	151.4	11.21	14.510		
2,000.0	1,997.5	1,973.8	1,971.6	5.9	5.8	150.06	20.3	124.3	164.1	152.8	11.23	14.606		
2,090.0	2,085.8	2,054.7	2,051.2	6.2	6.1	150.00	27.2	137.0	192.7	181.0	11.72	16.441		
2,100.0	2,095.6	2,063.6	2,059.9	6.3	6.1	149.99	28.0	138.6	196.1	184.4	11.77	16.659		
2,185.0	2,178.5	2,137.7	2,132.5	6.6	6.4	149.89	35.3	152.1	227.6	215.4	12.24	18.596		
2,200.1	2,193.1	2,150.7	2,145.1	6.6	6.5	149.87	36.7	154.7	233.6	221.3	12.32	18.957		
2,280.0	2,270.7	2,219.9	2,212.3	6.9	6.7	149.98	44.5	169.0	266.3	253.6	12.73	20.921		
2,300.0	2,290.1	2,238.1	2,230.0	6.9	6.7	150.00	46.6	172.9	274.6	261.7	12.83	21.394		
2,375.0	2,362.9	2,306.3	2,296.2	7.2	7.0	150.04	54.5	187.4	305.6	292.4	13.24	23.084		
2,400.0	2,387.1	2,329.1	2,318.3	7.3	7.0	150.05	57.1	192.2	316.0	302.6	13.38	23.619		
2,470.0	2,455.0	2,392.8	2,380.1	7.5	7.2	150.08	64.5	205.8	345.0	331.2	13.78	25.039		
2,500.0	2,484.1	2,420.1	2,406.6	7.6	7.3	150.10	67.6	211.6	357.4	343.5	13.95	25.618		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,565.0	2,547.2	2,479.3	2,464.0	7.8	7.5	150.12	74.5	224.2	384.4	370.0	14.34	26.803		
2,600.0	2,581.2	2,511.1	2,494.9	8.0	7.7	150.13	78.1	230.9	398.9	384.3	14.55	27.412		
2,660.0	2,639.4	2,565.7	2,547.9	8.2	7.9	150.15	84.5	242.5	423.7	408.8	14.92	28.396		
2,700.0	2,678.2	2,602.1	2,583.2	8.4	8.0	150.16	88.7	250.3	440.3	425.1	15.17	29.024		
2,755.0	2,731.6	2,652.2	2,631.8	8.6	8.2	150.17	94.4	260.9	463.1	447.5	15.52	29.835		
2,800.0	2,775.2	2,693.1	2,671.5	8.7	8.3	150.18	99.2	269.6	481.7	465.9	15.81	30.470		
2,850.0	2,823.7	2,738.6	2,715.7	8.9	8.5	150.19	104.4	279.3	502.4	486.3	16.14	31.136		
2,900.0	2,872.3	2,784.2	2,759.9	9.1	8.7	150.20	109.7	289.0	523.1	506.7	16.47	31.772		
2,945.0	2,915.9	2,825.1	2,799.6	9.3	8.8	150.21	114.4	297.7	541.8	525.0	16.77	32.313		
3,000.0	2,969.3	2,875.2	2,848.2	9.5	9.0	150.22	120.2	308.3	564.6	547.4	17.14	32.945		
3,040.0	3,008.1	2,911.6	2,883.5	9.7	9.2	150.22	124.4	316.1	581.1	563.7	17.41	33.381		
3,100.0	3,066.3	2,966.2	2,936.5	9.9	9.4	150.23	130.7	327.7	606.0	588.2	17.82	34.004		
3,135.0	3,100.3	2,998.0	2,967.4	10.1	9.5	150.23	134.4	334.5	620.5	602.4	18.06	34.350		
3,200.0	3,163.3	3,057.2	3,024.8	10.4	9.8	150.24	141.2	347.0	647.4	628.9	18.52	34.963		
3,230.0	3,192.5	3,084.5	3,051.3	10.5	9.9	150.25	144.4	352.8	659.8	641.1	18.73	35.232		
3,300.0	3,260.4	3,148.2	3,113.1	10.8	10.1	150.25	151.7	366.4	688.8	669.6	19.22	35.832		
3,325.0	3,284.6	3,171.0	3,135.2	10.9	10.2	150.26	154.3	371.2	699.2	679.8	19.40	36.036		
3,400.0	3,357.4	3,239.2	3,201.4	11.2	10.5	150.26	162.2	385.7	730.3	710.3	19.94	36.622		
3,420.0	3,376.8	3,257.4	3,219.1	11.3	10.6	150.26	164.3	389.6	738.5	718.5	20.09	36.771		
3,500.0	3,454.4	3,330.3	3,289.7	11.7	10.9	150.27	172.7	405.1	771.7	751.0	20.67	37.342		
3,515.0	3,469.0	3,343.9	3,303.0	11.7	11.0	150.27	174.3	408.0	777.9	757.1	20.78	37.444		
3,600.0	3,551.5	3,421.3	3,378.0	12.1	11.3	150.28	183.3	424.4	813.1	791.7	21.40	37.999		
3,610.0	3,561.2	3,430.4	3,386.9	12.1	11.4	150.28	184.3	426.4	817.3	795.8	21.47	38.062		
3,700.0	3,648.5	3,512.3	3,466.3	12.5	11.7	150.29	193.8	443.8	854.5	832.4	22.14	38.601		
3,705.0	3,653.3	3,516.8	3,470.8	12.6	11.7	150.29	194.3	444.8	856.6	834.4	22.17	38.630		
3,800.0	3,745.5	3,603.3	3,554.7	13.0	12.1	150.29	204.3	463.1	896.0	873.1	22.88	39.153		
3,895.0	3,837.7	3,689.8	3,638.6	13.4	12.5	150.30	214.3	481.5	935.3	911.7	23.60	39.636		
3,900.0	3,842.5	3,694.3	3,643.0	13.4	12.5	150.30	214.8	482.5	937.4	913.8	23.64	39.661		
3,990.0	3,929.9	3,776.2	3,722.4	13.8	12.9	150.30	224.2	499.9	974.7	950.4	24.32	40.083		
4,000.0	3,939.6	3,785.3	3,731.3	13.9	12.9	150.30	225.3	501.9	978.8	954.4	24.39	40.129		
4,085.0	4,022.0	3,862.7	3,806.3	14.3	13.3	150.31	234.2	518.3	1,014.0	989.0	25.04	40.498		
4,100.0	4,036.6	3,876.3	3,819.6	14.3	13.3	150.31	235.8	521.2	1,020.2	995.1	25.15	40.561		
4,180.0	4,114.2	3,949.2	3,890.2	14.7	13.7	150.31	244.2	536.7	1,053.4	1,027.6	25.77	40.883		
4,200.0	4,133.6	3,967.4	3,907.9	14.8	13.7	150.31	246.3	540.6	1,061.7	1,035.7	25.92	40.960		
4,275.0	4,206.4	4,035.6	3,974.1	15.2	14.1	150.32	254.2	555.1	1,092.7	1,066.2	26.50	41.241		
4,300.0	4,230.7	4,058.4	3,996.2	15.3	14.2	150.32	256.8	559.9	1,103.1	1,076.4	26.69	41.331		
4,370.0	4,298.6	4,122.1	4,058.0	15.6	14.4	150.32	264.2	573.5	1,132.1	1,104.9	27.23	41.575		
4,400.0	4,327.7	4,149.4	4,084.5	15.7	14.6	150.32	267.3	579.3	1,144.5	1,117.1	27.46	41.676		
4,465.0	4,390.8	4,208.6	4,141.9	16.0	14.8	150.32	274.2	591.8	1,171.4	1,143.5	27.97	41.886		
4,500.0	4,424.7	4,240.4	4,172.8	16.2	15.0	150.32	277.9	598.6	1,185.9	1,157.7	28.24	41.996		
4,560.0	4,482.9	4,295.0	4,225.8	16.5	15.2	150.33	284.2	610.2	1,210.8	1,182.1	28.70	42.188		
4,578.5	4,500.9	4,311.8	4,242.1	16.5	15.3	150.33	286.1	613.8	1,218.4	1,189.6	28.84	42.246		
4,600.0	4,521.8	4,331.5	4,261.2	16.6	15.4	150.42	288.4	618.0	1,227.3	1,198.3	29.00	42.317		
4,655.0	4,575.3	4,381.8	4,310.1	16.9	15.6	150.64	294.2	628.7	1,249.3	1,219.9	29.44	42.435		
4,700.0	4,619.4	4,423.3	4,350.3	17.1	15.8	150.78	299.0	637.5	1,266.7	1,236.9	29.80	42.506		
4,750.0	4,668.4	4,469.7	4,395.3	17.4	16.1	150.92	304.3	647.4	1,285.4	1,255.2	30.20	42.568		
4,800.0	4,717.7	4,516.3	4,440.6	17.6	16.3	151.03	309.7	657.3	1,303.4	1,272.8	30.59	42.602		
4,845.0	4,762.1	4,558.5	4,481.5	17.8	16.5	151.11	314.6	666.3	1,318.9	1,288.0	30.95	42.621		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-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	
0.0	0.0	0.0	0.0	3.0	3.0	88.95	1.1	60.0	60.0					
95.0	95.0	93.6	93.6	3.0	3.0	88.95	1.1	60.0	60.0	54.0	6.04	9.943		
100.0	100.0	98.6	98.6	3.0	3.0	88.95	1.1	60.0	60.0	54.0	6.04	9.935		
190.0	190.0	188.6	188.6	3.1	3.1	88.95	1.1	60.0	60.0	53.8	6.25	9.602		
200.0	200.0	198.6	198.6	3.1	3.1	88.95	1.1	60.0	60.0	53.7	6.28	9.550		
285.0	285.0	283.6	283.6	3.3	3.2	88.95	1.1	60.0	60.0	53.5	6.48	9.259		
300.0	300.0	298.6	298.6	3.3	3.3	88.95	1.1	60.0	60.0	53.5	6.52	9.203		
380.0	380.0	378.6	378.6	3.4	3.4	88.95	1.1	60.0	60.0	53.3	6.70	8.956		
400.0	400.0	398.6	398.6	3.4	3.4	88.95	1.1	60.0	60.0	53.3	6.75	8.892		
475.0	475.0	473.6	473.6	3.5	3.5	88.95	1.1	60.0	60.0	53.1	6.91	8.682		
500.0	500.0	498.6	498.6	3.5	3.5	88.95	1.1	60.0	60.0	53.0	6.97	8.611		
570.0	570.0	568.6	568.6	3.6	3.6	88.95	1.1	60.0	60.0	52.9	7.12	8.432		
600.0	600.0	598.6	598.6	3.6	3.6	88.95	1.1	60.0	60.0	52.8	7.18	8.355		
665.0	665.0	663.6	663.6	3.7	3.7	88.95	1.1	60.0	60.0	52.7	7.32	8.202		
700.0	700.0	698.6	698.6	3.8	3.8	88.95	1.1	60.0	60.0	52.6	7.39	8.120		
760.0	760.0	758.6	758.6	3.8	3.8	88.95	1.1	60.0	60.0	52.5	7.51	7.990		
800.0	800.0	798.6	798.6	3.9	3.9	88.95	1.1	60.0	60.0	52.4	7.59	7.904		
855.0	855.0	853.6	853.6	4.0	3.9	88.95	1.1	60.0	60.0	52.3	7.70	7.794		
900.0	900.0	898.6	898.6	4.0	4.0	88.95	1.1	60.0	60.0	52.2	7.79	7.704		
950.0	950.0	948.6	948.6	4.1	4.1	88.95	1.1	60.0	60.0	52.1	7.88	7.611		
1,000.0	1,000.0	998.6	998.6	4.1	4.1	88.95	1.1	60.0	60.0	52.0	7.98	7.519		
1,045.0	1,045.0	1,043.6	1,043.6	4.2	4.2	88.95	1.1	60.0	60.0	51.9	8.06	7.441		
1,100.0	1,100.0	1,098.6	1,098.6	4.2	4.2	88.95	1.1	60.0	60.0	51.8	8.17	7.347		
1,140.0	1,140.0	1,138.6	1,138.6	4.3	4.3	88.95	1.1	60.0	60.0	51.8	8.24	7.282		
1,200.0	1,200.0	1,198.6	1,198.6	4.4	4.4	88.95	1.1	60.0	60.0	51.7	8.35	7.186		
1,235.0	1,235.0	1,233.6	1,233.6	4.4	4.4	88.95	1.1	60.0	60.0	51.6	8.41	7.132		
1,300.0	1,300.0	1,298.6	1,298.6	4.5	4.5	88.95	1.1	60.0	60.0	51.5	8.53	7.035		
1,330.0	1,330.0	1,328.6	1,328.6	4.5	4.5	88.95	1.1	60.0	60.0	51.4	8.58	6.992		
1,400.0	1,400.0	1,398.6	1,398.6	4.6	4.6	88.95	1.1	60.0	60.0	51.3	8.71	6.893		
1,425.0	1,425.0	1,423.6	1,423.6	4.6	4.6	88.95	1.1	60.0	60.0	51.3	8.75	6.859		
1,500.0	1,500.0	1,498.6	1,498.6	4.7	4.7	88.95	1.1	60.0	60.0	51.1	8.88	6.759 CC, ES		
1,520.0	1,520.0	1,518.4	1,518.4	4.7	4.8	149.76	1.1	60.0	60.1	51.2	8.93	6.728		
1,600.0	1,600.0	1,597.4	1,597.3	4.9	4.9	149.31	2.5	60.9	62.5	53.3	9.16	6.821		
1,615.0	1,615.0	1,612.1	1,612.1	4.9	4.9	149.16	2.9	61.2	63.3	54.1	9.23	6.861		
1,700.0	1,699.8	1,695.7	1,695.6	5.1	5.1	148.04	6.6	63.8	70.0	60.4	9.61	7.287		
1,710.0	1,709.8	1,705.5	1,705.3	5.1	5.2	147.88	7.2	64.2	71.0	61.4	9.65	7.359		
1,800.0	1,799.5	1,793.3	1,792.8	5.3	5.4	146.40	13.5	68.5	82.5	72.5	10.06	8.203		
1,805.0	1,804.4	1,798.2	1,797.6	5.3	5.4	146.32	13.9	68.7	83.3	73.2	10.08	8.260		
1,900.0	1,898.7	1,889.8	1,888.6	5.6	5.7	144.76	23.0	74.9	100.1	89.6	10.53	9.507		
1,995.0	1,992.5	1,980.9	1,978.7	5.9	5.9	143.41	34.2	82.6	121.2	110.3	10.89	11.128		
2,000.0	1,997.5	1,985.8	1,983.5	5.9	5.9	143.36	34.9	83.0	122.4	111.5	10.91	11.219		
2,090.0	2,085.8	2,072.8	2,069.5	6.2	6.1	142.90	46.1	90.7	145.3	134.0	11.34	12.816		
2,100.0	2,095.6	2,082.4	2,079.0	6.3	6.1	142.90	47.4	91.6	148.0	136.6	11.39	12.996		
2,185.0	2,178.5	2,164.0	2,159.5	6.6	6.3	143.08	57.9	98.7	171.8	160.0	11.82	14.539		
2,200.1	2,193.1	2,178.5	2,173.8	6.6	6.4	143.15	59.8	100.0	176.2	164.3	11.89	14.817		
2,280.0	2,270.7	2,254.8	2,249.2	6.9	6.6	143.77	69.6	106.7	199.8	187.6	12.27	16.282		
2,300.0	2,290.1	2,273.9	2,268.0	6.9	6.6	143.90	72.1	108.4	205.8	193.4	12.37	16.634		
2,375.0	2,362.9	2,345.5	2,338.8	7.2	6.9	144.33	81.4	114.7	228.0	215.2	12.74	17.891		
2,400.0	2,387.1	2,369.4	2,362.3	7.3	6.9	144.45	84.4	116.8	235.4	222.5	12.87	18.292		
2,470.0	2,455.0	2,436.2	2,428.4	7.5	7.2	144.77	93.1	122.7	256.1	242.9	13.23	19.361		
2,500.0	2,484.1	2,464.9	2,456.7	7.6	7.2	144.89	96.8	125.3	265.0	251.6	13.38	19.800		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
2,565.0	2,547.2	2,526.9	2,518.0	7.8	7.5	145.12	104.8	130.7	284.2	270.5	13.73	20.705	
2,600.0	2,581.2	2,560.3	2,551.0	8.0	7.6	145.23	109.1	133.7	294.6	280.7	13.92	21.171	
2,660.0	2,639.4	2,617.6	2,607.6	8.2	7.8	145.41	116.5	138.7	312.4	298.2	14.24	21.932	
2,700.0	2,678.2	2,655.8	2,645.3	8.4	7.9	145.52	121.5	142.1	324.3	309.8	14.46	22.417	
2,755.0	2,731.6	2,708.4	2,697.2	8.6	8.1	145.65	128.3	146.7	340.6	325.8	14.77	23.054	
2,800.0	2,775.2	2,751.3	2,739.6	8.7	8.2	145.75	133.8	150.5	353.9	338.9	15.03	23.552	
2,850.0	2,823.7	2,799.1	2,786.8	8.9	8.4	145.85	140.0	154.7	368.7	353.4	15.31	24.080	
2,900.0	2,872.3	2,846.8	2,833.9	9.1	8.6	145.95	146.2	158.9	383.5	367.9	15.60	24.586	
2,945.0	2,915.9	2,889.8	2,876.4	9.3	8.7	146.03	151.7	162.7	396.9	381.0	15.86	25.021	
3,000.0	2,969.3	2,942.3	2,928.3	9.5	8.9	146.12	158.5	167.4	413.2	397.0	16.18	25.530	
3,040.0	3,008.1	2,980.5	2,966.0	9.7	9.1	146.18	163.4	170.7	425.1	408.6	16.42	25.884	
3,100.0	3,066.3	3,037.8	3,022.6	9.9	9.3	146.27	170.9	175.8	442.9	426.1	16.78	26.394	
3,135.0	3,100.3	3,071.3	3,055.6	10.1	9.4	146.31	175.2	178.7	453.2	436.2	16.99	26.678	
3,200.0	3,163.3	3,133.3	3,116.9	10.4	9.7	146.40	183.2	184.2	472.5	455.1	17.38	27.185	
3,230.0	3,192.5	3,162.0	3,145.2	10.5	9.8	146.43	186.9	186.7	481.4	463.8	17.56	27.408	
3,300.0	3,260.4	3,228.8	3,211.2	10.8	10.0	146.51	195.5	192.6	502.2	484.2	17.99	27.911	
3,325.0	3,284.6	3,252.7	3,234.8	10.9	10.1	146.54	198.6	194.7	509.6	491.4	18.15	28.082	
3,400.0	3,357.4	3,324.3	3,305.5	11.2	10.4	146.61	207.9	201.0	531.8	513.2	18.61	28.579	
3,420.0	3,376.8	3,343.4	3,324.4	11.3	10.5	146.63	210.4	202.7	537.8	519.0	18.73	28.705	
3,500.0	3,454.4	3,419.8	3,399.9	11.7	10.8	146.70	220.2	209.5	561.5	542.3	19.23	29.194	
3,515.0	3,469.0	3,434.1	3,414.0	11.7	10.8	146.71	222.1	210.7	565.9	546.6	19.33	29.282	
3,600.0	3,551.5	3,515.3	3,494.2	12.1	11.2	146.78	232.6	217.9	591.2	571.3	19.86	29.763	
3,610.0	3,561.2	3,524.9	3,503.6	12.1	11.2	146.79	233.8	218.7	594.1	574.2	19.93	29.817	
3,700.0	3,648.5	3,610.8	3,588.5	12.5	11.5	146.86	244.9	226.3	620.8	600.3	20.50	30.289	
3,705.0	3,653.3	3,615.6	3,593.2	12.6	11.6	146.86	245.5	226.7	622.3	601.8	20.53	30.314	
3,800.0	3,745.5	3,706.3	3,682.8	13.0	11.9	146.92	257.3	234.7	650.5	629.4	21.14	30.777	
3,895.0	3,837.7	3,797.0	3,772.4	13.4	12.3	146.98	269.0	242.7	678.7	656.9	21.75	31.208	
3,900.0	3,842.5	3,801.8	3,777.1	13.4	12.3	146.98	269.6	243.1	680.2	658.4	21.78	31.230	
3,990.0	3,929.9	3,887.7	3,862.0	13.8	12.7	147.03	280.7	250.7	706.9	684.5	22.36	31.611	
4,000.0	3,939.6	3,897.3	3,871.5	13.9	12.7	147.04	282.0	251.6	709.8	687.4	22.43	31.652	
4,085.0	4,022.0	3,978.5	3,951.6	14.3	13.1	147.08	292.4	258.7	735.0	712.1	22.98	31.988	
4,100.0	4,036.6	3,992.8	3,965.8	14.3	13.1	147.09	294.3	260.0	739.5	716.4	23.08	32.045	
4,180.0	4,114.2	4,069.2	4,041.2	14.7	13.4	147.13	304.2	266.7	763.2	739.6	23.60	32.340	
4,200.0	4,133.6	4,088.3	4,060.1	14.8	13.5	147.14	306.6	268.4	769.2	745.4	23.73	32.412	
4,275.0	4,206.4	4,159.9	4,130.8	15.2	13.8	147.17	315.9	274.7	791.4	767.2	24.22	32.672	
4,300.0	4,230.7	4,183.8	4,154.4	15.3	13.9	147.18	319.0	276.8	798.8	774.4	24.39	32.756	
4,370.0	4,298.6	4,254.4	4,224.2	15.6	14.2	147.22	328.0	282.9	819.5	794.6	24.86	32.962	
4,400.0	4,327.7	4,285.8	4,255.3	15.7	14.3	147.25	331.8	285.5	828.2	803.2	25.07	33.031	
4,465.0	4,390.8	4,354.0	4,322.9	16.0	14.6	147.35	339.5	290.8	846.8	821.3	25.54	33.162	
4,500.0	4,424.7	4,390.9	4,359.4	16.2	14.7	147.43	343.4	293.5	856.6	830.8	25.78	33.223	
4,560.0	4,482.9	4,454.2	4,422.3	16.5	15.0	147.57	349.7	297.8	873.2	847.0	26.20	33.329	
4,578.5	4,500.9	4,473.8	4,441.7	16.5	15.1	147.63	351.5	299.0	878.2	851.8	26.33	33.358	
4,600.0	4,521.8	4,496.6	4,464.4	16.6	15.2	147.75	353.6	300.4	883.9	857.4	26.47	33.395	
4,655.0	4,575.3	4,555.2	4,522.6	16.9	15.4	148.05	358.5	303.8	897.7	870.9	26.86	33.426	
4,700.0	4,619.4	4,603.4	4,570.7	17.1	15.6	148.28	362.2	306.3	908.2	881.0	27.18	33.419	
4,750.0	4,668.4	4,657.3	4,624.4	17.4	15.8	148.50	365.9	308.8	918.8	891.3	27.52	33.391	
4,800.0	4,717.7	4,711.4	4,678.4	17.6	16.0	148.71	369.2	311.1	928.5	900.6	27.86	33.329	
4,845.0	4,762.1	4,760.4	4,727.2	17.8	16.1	148.89	371.9	312.9	936.3	908.1	28.15	33.259	
4,900.0	4,816.5	4,820.5	4,787.2	18.0	16.4	149.08	374.6	314.8	944.8	916.3	28.51	33.139	
4,940.0	4,856.2	4,864.3	4,831.0	18.2	16.5	149.20	376.3	315.9	950.1	921.4	28.76	33.041	
5,000.0	4,915.9	4,930.3	4,897.0	18.5	16.7	149.37	378.4	317.3	957.0	927.9	29.12	32.862	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	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
5,035.0	4,950.7	4,968.9	4,935.5	18.6	16.8	149.46	379.3	317.9	960.3	931.0	29.32	32.752
5,100.0	5,015.6	5,040.7	5,007.3	18.9	17.0	149.60	380.4	318.7	965.1	935.5	29.68	32.523
5,130.0	5,045.5	5,073.9	5,040.5	19.0	17.1	149.66	380.6	318.8	966.8	936.9	29.82	32.418
5,200.0	5,115.4	5,147.4	5,114.0	19.2	17.2	149.77	380.7	318.9	969.2	939.1	30.10	32.195
5,225.0	5,140.4	5,172.4	5,139.0	19.3	17.2	149.79	380.7	318.9	969.7	939.6	30.15	32.158
5,278.6	5,194.0	5,226.0	5,192.6	19.3	17.2	88.98	380.7	318.9	970.2	939.9	30.26	32.056
5,300.0	5,215.4	5,247.4	5,214.0	19.3	17.2	88.98	380.7	318.9	970.2	939.9	30.28	32.037
5,320.0	5,235.4	5,267.4	5,234.0	19.4	17.2	88.98	380.7	318.9	970.2	939.8	30.31	32.012
5,400.0	5,315.4	5,347.4	5,314.0	19.4	17.3	88.98	380.7	318.9	970.2	939.8	30.40	31.913
5,415.0	5,330.4	5,362.4	5,329.0	19.4	17.3	88.98	380.7	318.9	970.2	939.7	30.42	31.894
5,500.0	5,415.4	5,447.4	5,414.0	19.4	17.3	88.98	380.7	318.9	970.2	939.6	30.52	31.789
5,510.0	5,425.4	5,457.4	5,424.0	19.4	17.3	88.98	380.7	318.9	970.2	939.6	30.53	31.776
5,600.0	5,515.4	5,547.4	5,514.0	19.5	17.4	88.98	380.7	318.9	970.2	939.5	30.64	31.665
5,605.0	5,520.4	5,552.4	5,519.0	19.5	17.4	88.98	380.7	318.9	970.2	939.5	30.64	31.659
5,700.0	5,615.4	5,647.4	5,614.0	19.5	17.4	88.98	380.7	318.9	970.2	939.4	30.76	31.543
5,795.0	5,710.4	5,742.4	5,709.0	19.6	17.5	88.98	380.7	318.9	970.2	939.3	30.87	31.427
5,800.0	5,715.4	5,747.4	5,714.0	19.6	17.5	88.98	380.7	318.9	970.2	939.3	30.88	31.421
5,890.0	5,805.4	5,837.4	5,804.0	19.6	17.5	88.98	380.7	318.9	970.2	939.2	30.98	31.311
5,900.0	5,815.4	5,847.4	5,814.0	19.6	17.5	88.98	380.7	318.9	970.2	939.2	31.00	31.299
5,985.0	5,900.4	5,932.4	5,899.0	19.7	17.6	88.98	380.7	318.9	970.2	939.1	31.10	31.196
6,000.0	5,915.4	5,947.4	5,914.0	19.7	17.6	88.98	380.7	318.9	970.2	939.0	31.12	31.178
6,080.0	5,995.4	6,027.4	5,994.0	19.7	17.6	88.98	380.7	318.9	970.2	938.9	31.21	31.081
6,100.0	6,015.4	6,047.4	6,014.0	19.7	17.6	88.98	380.7	318.9	970.2	938.9	31.24	31.057
6,175.0	6,090.4	6,122.4	6,089.0	19.7	17.7	88.98	380.7	318.9	970.2	938.8	31.33	30.967
6,200.0	6,115.4	6,147.4	6,114.0	19.8	17.7	88.98	380.7	318.9	970.2	938.8	31.36	30.938
6,270.0	6,185.4	6,217.4	6,184.0	19.8	17.7	88.98	380.7	318.9	970.2	938.7	31.44	30.854
6,300.0	6,215.4	6,247.4	6,214.0	19.8	17.8	88.98	380.7	318.9	970.2	938.7	31.48	30.818
6,365.0	6,280.4	6,312.4	6,279.0	19.8	17.8	88.98	380.7	318.9	970.2	938.6	31.56	30.741
6,400.0	6,315.4	6,347.4	6,314.0	19.8	17.8	88.98	380.7	318.9	970.2	938.6	31.60	30.700
6,460.0	6,375.4	6,407.4	6,374.0	19.9	17.8	88.98	380.7	318.9	970.2	938.5	31.67	30.629
6,500.0	6,415.4	6,447.4	6,414.0	19.9	17.9	88.98	380.7	318.9	970.2	938.4	31.72	30.581
6,555.0	6,470.4	6,502.4	6,469.0	19.9	17.9	88.98	380.7	318.9	970.2	938.4	31.79	30.517
6,600.0	6,515.4	6,547.4	6,514.0	19.9	17.9	88.98	380.7	318.9	970.2	938.3	31.85	30.464
6,650.0	6,565.4	6,597.4	6,564.0	20.0	18.0	88.98	380.7	318.9	970.2	938.2	31.91	30.405
6,700.0	6,615.4	6,647.4	6,614.0	20.0	18.0	88.98	380.7	318.9	970.2	938.2	31.97	30.347
6,745.0	6,660.4	6,692.4	6,659.0	20.0	18.0	88.98	380.7	318.9	970.2	938.1	32.02	30.294
6,800.0	6,715.4	6,747.4	6,714.0	20.0	18.0	88.98	380.7	318.9	970.2	938.1	32.09	30.231
6,840.0	6,755.4	6,787.4	6,754.0	20.1	18.1	88.98	380.7	318.9	970.2	938.0	32.14	30.184
6,900.0	6,815.4	6,847.4	6,814.0	20.1	18.1	88.98	380.7	318.9	970.2	937.9	32.22	30.115
6,935.0	6,850.4	6,882.4	6,849.0	20.1	18.1	88.98	380.7	318.9	970.2	937.9	32.26	30.074
7,000.0	6,915.4	6,947.4	6,914.0	20.1	18.2	88.98	380.7	318.9	970.2	937.8	32.34	30.000
7,030.0	6,945.4	6,977.4	6,944.0	20.1	18.2	88.98	380.7	318.9	970.2	937.8	32.38	29.965
7,100.0	7,015.4	7,047.4	7,014.0	20.2	18.2	88.98	380.7	318.9	970.2	937.7	32.46	29.885
7,125.0	7,040.4	7,072.4	7,039.0	20.2	18.2	88.98	380.7	318.9	970.2	937.7	32.49	29.856
7,200.0	7,115.4	7,147.4	7,114.0	20.2	18.3	88.98	380.7	318.9	970.2	937.6	32.59	29.771
7,220.0	7,135.4	7,167.4	7,134.0	20.2	18.3	88.98	380.7	318.9	970.2	937.5	32.61	29.748
7,300.0	7,215.4	7,247.4	7,214.0	20.3	18.3	88.98	380.7	318.9	970.2	937.4	32.71	29.657
7,315.0	7,230.4	7,262.4	7,229.0	20.3	18.3	88.98	380.7	318.9	970.2	937.4	32.73	29.640
7,400.0	7,315.4	7,347.4	7,314.0	20.3	18.4	88.98	380.7	318.9	970.2	937.3	32.84	29.545
7,410.0	7,325.4	7,357.4	7,324.0	20.3	18.4	88.98	380.7	318.9	970.2	937.3	32.85	29.533
7,500.0	7,415.4	7,447.4	7,414.0	20.4	18.4	88.98	380.7	318.9	970.2	937.2	32.96	29.432

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-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)	
7,505.0	7,420.4	7,452.4	7,419.0	20.4	18.5	88.98	380.7	318.9	970.2	937.2	32.97	29.427
7,600.0	7,515.4	7,547.4	7,514.0	20.4	18.5	88.98	380.7	318.9	970.2	937.1	33.09	29.321
7,695.0	7,610.4	7,642.4	7,609.0	20.5	18.6	88.98	380.7	318.9	970.2	936.9	33.21	29.215
7,700.0	7,615.4	7,647.4	7,614.0	20.5	18.6	88.98	380.7	318.9	970.2	936.9	33.21	29.209
7,790.0	7,705.4	7,737.4	7,704.0	20.5	18.6	88.98	380.7	318.9	970.2	936.8	33.33	29.110
7,800.0	7,715.4	7,747.4	7,714.0	20.5	18.6	88.98	380.7	318.9	970.2	936.8	33.34	29.099
7,885.0	7,800.4	7,832.4	7,799.0	20.6	18.7	88.98	380.7	318.9	970.2	936.7	33.45	29.005
7,900.0	7,815.4	7,847.4	7,814.0	20.6	18.7	88.98	380.7	318.9	970.2	936.7	33.47	28.989
7,980.0	7,895.4	7,927.4	7,894.0	20.6	18.7	88.98	380.7	318.9	970.2	936.6	33.57	28.901
8,000.0	7,915.4	7,947.4	7,914.0	20.6	18.7	88.98	380.7	318.9	970.2	936.6	33.59	28.880
8,075.0	7,990.4	8,022.4	7,989.0	20.7	18.8	88.98	380.7	318.9	970.2	936.5	33.69	28.798
8,100.0	8,015.4	8,047.4	8,014.0	20.7	18.8	88.98	380.7	318.9	970.2	936.4	33.72	28.771
8,170.0	8,085.4	8,117.4	8,084.0	20.7	18.8	88.98	380.7	318.9	970.2	936.3	33.81	28.695
8,200.0	8,115.4	8,147.4	8,114.0	20.7	18.9	88.98	380.7	318.9	970.2	936.3	33.85	28.663
8,265.0	8,180.4	8,212.4	8,179.0	20.7	18.9	88.98	380.7	318.9	970.2	936.2	33.93	28.593
8,300.0	8,215.4	8,247.4	8,214.0	20.8	18.9	88.98	380.7	318.9	970.2	936.2	33.97	28.555
8,360.0	8,275.4	8,307.4	8,274.0	20.8	19.0	88.98	380.7	318.9	970.2	936.1	34.05	28.491
8,400.0	8,315.4	8,347.4	8,314.0	20.8	19.0	88.98	380.7	318.9	970.2	936.0	34.10	28.448
8,447.6	8,363.0	8,395.0	8,361.6	20.8	19.0	88.98	380.7	318.9	970.2	936.0	34.15	28.410
8,450.0	8,365.4	8,397.4	8,364.0	20.8	19.0	-91.52	380.7	318.9	970.2	936.0	34.15	28.408
8,455.0	8,370.4	8,402.4	8,369.0	20.8	19.0	-91.53	380.7	318.9	970.2	936.0	34.15	28.406
8,500.0	8,415.4	8,448.9	8,415.5	20.8	19.0	-91.62	379.8	318.9	970.2	936.0	34.17	28.394
8,550.0	8,464.9	8,501.4	8,467.7	20.9	19.1	-91.72	374.6	318.8	970.2	936.1	34.18	28.382
8,600.0	8,513.6	8,554.2	8,519.5	20.9	19.1	-91.81	364.5	318.8	970.3	936.1	34.19	28.375
8,645.0	8,556.6	8,601.7	8,565.2	20.9	19.2	-91.87	351.3	318.6	970.3	936.1	34.20	28.373
8,650.0	8,561.3	8,607.0	8,570.2	20.9	19.2	-91.88	349.6	318.6	970.3	936.1	34.20	28.373
8,700.0	8,607.4	8,660.0	8,619.4	20.9	19.2	-91.94	330.1	318.5	970.4	936.2	34.20	28.373
8,740.0	8,642.9	8,702.5	8,657.5	21.0	19.3	-91.97	311.3	318.3	970.4	936.2	34.20	28.374
8,750.0	8,651.6	8,713.1	8,666.7	21.0	19.3	-91.98	306.1	318.2	970.4	936.2	34.20	28.375
8,800.0	8,693.6	8,766.2	8,711.7	21.0	19.4	-92.01	277.8	318.0	970.4	936.2	34.20	28.376
8,835.0	8,721.6	8,803.4	8,741.5	21.0	19.4	-92.02	255.5	317.8	970.4	936.2	34.20	28.377
8,850.0	8,733.2	8,819.4	8,753.8	21.0	19.4	-92.02	245.4	317.7	970.4	936.2	34.20	28.376
8,900.0	8,769.9	8,872.5	8,792.8	21.1	19.5	-92.01	209.3	317.4	970.4	936.2	34.20	28.372
8,930.0	8,790.4	8,904.4	8,814.5	21.1	19.5	-92.00	185.9	317.2	970.4	936.2	34.21	28.366
8,950.0	8,803.5	8,925.7	8,828.2	21.1	19.5	-91.99	169.7	317.0	970.4	936.2	34.22	28.361
9,000.0	8,833.8	8,978.8	8,859.8	21.1	19.6	-91.95	127.0	316.7	970.4	936.1	34.24	28.343
9,025.0	8,847.6	9,005.3	8,874.1	21.2	19.6	-91.93	104.7	316.5	970.4	936.1	34.25	28.329
9,050.0	8,860.4	9,031.8	8,887.3	21.2	19.6	-91.90	81.7	316.2	970.3	936.1	34.27	28.314
9,100.0	8,883.3	9,084.7	8,910.4	21.2	19.7	-91.83	34.2	315.8	970.3	936.0	34.32	28.273
9,120.0	8,891.4	9,105.8	8,918.4	21.2	19.7	-91.80	14.6	315.7	970.3	935.9	34.34	28.254
9,150.0	8,902.3	9,137.4	8,929.0	21.3	19.7	-91.74	-15.2	315.4	970.3	935.9	34.38	28.220
9,200.0	8,917.1	9,190.1	8,942.9	21.3	19.8	-91.65	-65.9	314.9	970.2	935.8	34.46	28.154
9,215.0	8,920.7	9,205.8	8,946.2	21.3	19.8	-91.61	-81.3	314.8	970.2	935.7	34.49	28.131
9,250.0	8,927.7	9,242.5	8,952.1	21.4	19.8	-91.54	-117.5	314.5	970.2	935.6	34.56	28.074
9,300.0	8,934.0	9,294.7	8,956.6	21.4	19.9	-91.41	-169.5	314.0	970.1	935.4	34.67	27.980
9,310.0	8,934.8	9,305.1	8,956.9	21.5	19.9	-91.39	-180.0	313.9	970.1	935.4	34.70	27.960
9,346.7	8,936.0	9,342.3	8,957.0	21.5	19.9	-91.32	-217.1	313.6	970.1	935.3	34.80	27.879
9,400.0	8,936.1	9,395.6	8,957.1	21.6	19.9	-91.32	-270.4	313.1	970.1	935.1	34.96	27.750
9,405.0	8,936.1	9,400.6	8,957.1	21.6	19.9	-91.32	-275.4	313.1	970.1	935.1	34.97	27.737
9,500.0	8,936.2	9,495.6	8,957.2	21.7	20.0	-91.32	-370.4	312.2	970.1	934.7	35.33	27.458
9,595.0	8,936.4	9,590.6	8,957.3	21.9	20.1	-91.32	-465.4	311.4	970.1	934.3	35.74	27.140

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-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	
9,600.0	8,936.4	9,595.6	8,957.3	21.9	20.1	-91.32	-470.4	311.4	970.1	934.3	35.76	27.124		
9,690.0	8,936.6	9,685.6	8,957.4	22.0	20.1	-91.32	-560.4	310.6	970.1	933.9	36.21	26.790		
9,700.0	8,936.6	9,695.6	8,957.4	22.1	20.2	-91.32	-570.4	310.5	970.1	933.8	36.26	26.753		
9,785.0	8,936.7	9,780.6	8,957.5	22.2	20.2	-91.31	-655.4	309.7	970.1	933.3	36.73	26.412		
9,800.0	8,936.7	9,795.6	8,957.5	22.3	20.3	-91.31	-670.4	309.6	970.1	933.3	36.81	26.352		
9,880.0	8,936.9	9,875.6	8,957.6	22.4	20.4	-91.31	-750.4	308.9	970.1	932.8	37.30	26.009		
9,900.0	8,936.9	9,895.6	8,957.7	22.5	20.4	-91.31	-770.4	308.7	970.1	932.7	37.42	25.925		
9,975.0	8,937.0	9,970.6	8,957.7	22.7	20.5	-91.31	-845.4	308.0	970.1	932.2	37.91	25.587		
10,000.0	8,937.1	9,995.6	8,957.8	22.7	20.5	-91.31	-870.4	307.8	970.1	932.0	38.08	25.476		
10,070.0	8,937.2	10,065.6	8,957.9	22.9	20.6	-91.30	-940.4	307.2	970.1	931.5	38.57	25.149		
10,100.0	8,937.2	10,095.6	8,957.9	23.0	20.7	-91.30	-970.4	306.9	970.1	931.3	38.79	25.011		
10,165.0	8,937.3	10,160.6	8,958.0	23.2	20.8	-91.30	-1,035.4	306.3	970.1	930.8	39.28	24.699		
10,200.0	8,937.4	10,195.6	8,958.0	23.3	20.9	-91.30	-1,070.4	306.0	970.1	930.5	39.54	24.534		
10,260.0	8,937.5	10,255.6	8,958.1	23.5	21.0	-91.30	-1,130.4	305.5	970.1	930.1	40.02	24.241		
10,300.0	8,937.5	10,295.6	8,958.1	23.6	21.1	-91.30	-1,170.4	305.1	970.1	929.7	40.34	24.048		
10,355.0	8,937.6	10,350.6	8,958.2	23.8	21.2	-91.30	-1,225.4	304.7	970.1	929.3	40.80	23.777		
10,400.0	8,937.7	10,395.6	8,958.2	23.9	21.3	-91.30	-1,270.4	304.3	970.1	928.9	41.18	23.558		
10,450.0	8,937.8	10,445.6	8,958.3	24.1	21.4	-91.29	-1,320.4	303.8	970.1	928.5	41.62	23.310		
10,500.0	8,937.9	10,495.6	8,958.3	24.2	21.5	-91.29	-1,370.4	303.4	970.1	928.0	42.06	23.066		
10,545.0	8,937.9	10,540.6	8,958.4	24.4	21.7	-91.29	-1,415.4	303.0	970.1	927.6	42.47	22.843		
10,600.0	8,938.0	10,595.6	8,958.5	24.6	21.8	-91.29	-1,470.4	302.5	970.1	927.1	42.97	22.576		
10,640.0	8,938.1	10,635.6	8,958.5	24.7	21.9	-91.29	-1,510.4	302.1	970.1	926.7	43.35	22.378		
10,700.0	8,938.2	10,695.6	8,958.6	25.0	22.1	-91.29	-1,570.4	301.6	970.1	926.2	43.92	22.088		
10,735.0	8,938.2	10,730.6	8,958.6	25.1	22.3	-91.29	-1,605.4	301.3	970.1	925.8	44.26	21.917		
10,800.0	8,938.3	10,795.6	8,958.7	25.4	22.5	-91.28	-1,670.3	300.7	970.1	925.2	44.90	21.606		
10,830.0	8,938.4	10,825.6	8,958.7	25.5	22.6	-91.28	-1,700.3	300.4	970.1	924.9	45.20	21.462		
10,900.0	8,938.5	10,895.6	8,958.8	25.8	22.8	-91.28	-1,770.3	299.8	970.1	924.2	45.91	21.131		
10,925.0	8,938.5	10,920.6	8,958.8	25.9	22.9	-91.28	-1,795.3	299.6	970.1	923.9	46.17	21.013		
11,000.0	8,938.7	10,995.6	8,958.9	26.2	23.3	-91.28	-1,870.3	298.9	970.1	923.1	46.94	20.664		
11,020.0	8,938.7	11,015.6	8,958.9	26.3	23.3	-91.28	-1,890.3	298.8	970.1	922.9	47.16	20.571		
11,100.0	8,938.8	11,095.6	8,959.0	26.6	23.7	-91.28	-1,970.3	298.0	970.1	922.1	48.01	20.206		
11,115.0	8,938.9	11,110.6	8,959.0	26.7	23.7	-91.28	-1,985.3	297.9	970.1	921.9	48.17	20.138		
11,200.0	8,939.0	11,195.6	8,959.1	27.1	24.1	-91.27	-2,070.3	297.2	970.1	921.0	49.10	19.759		
11,210.0	8,939.0	11,205.6	8,959.2	27.2	24.2	-91.27	-2,080.3	297.1	970.1	920.9	49.21	19.714		
11,300.0	8,939.2	11,295.6	8,959.3	27.6	24.6	-91.27	-2,170.3	296.3	970.1	919.9	50.21	19.322		
11,305.0	8,939.2	11,300.6	8,959.3	27.6	24.6	-91.27	-2,175.3	296.2	970.1	919.8	50.26	19.300		
11,400.0	8,939.3	11,395.6	8,959.4	28.1	25.1	-91.27	-2,270.3	295.4	970.1	918.7	51.34	18.896		
11,495.0	8,939.5	11,490.6	8,959.5	28.5	25.6	-91.26	-2,365.3	294.5	970.1	917.6	52.43	18.501		
11,500.0	8,939.5	11,495.6	8,959.5	28.6	25.6	-91.26	-2,370.3	294.5	970.1	917.6	52.49	18.481		
11,590.0	8,939.6	11,585.6	8,959.6	29.0	26.1	-91.26	-2,460.3	293.7	970.1	916.5	53.54	18.118		
11,600.0	8,939.6	11,595.6	8,959.6	29.1	26.2	-91.26	-2,470.3	293.6	970.1	916.4	53.66	18.078		
11,685.0	8,939.8	11,680.6	8,959.7	29.5	26.7	-91.26	-2,555.3	292.9	970.1	915.4	54.67	17.744		
11,700.0	8,939.8	11,695.6	8,959.7	29.6	26.7	-91.26	-2,570.3	292.7	970.1	915.2	54.85	17.687		
11,780.0	8,939.9	11,775.6	8,959.8	30.0	27.2	-91.26	-2,650.3	292.0	970.1	914.3	55.81	17.381		
11,800.0	8,940.0	11,795.6	8,959.8	30.1	27.3	-91.26	-2,670.3	291.8	970.1	914.0	56.05	17.307		
11,875.0	8,940.1	11,870.6	8,959.9	30.5	27.8	-91.25	-2,745.3	291.2	970.1	913.1	56.97	17.029		
11,900.0	8,940.1	11,895.6	8,959.9	30.7	27.9	-91.25	-2,770.3	291.0	970.1	912.8	57.27	16.938		
11,970.0	8,940.2	11,965.6	8,960.0	31.1	28.3	-91.25	-2,840.3	290.3	970.1	911.9	58.13	16.687		
12,000.0	8,940.3	11,995.6	8,960.1	31.2	28.5	-91.25	-2,870.3	290.1	970.1	911.6	58.50	16.581		
12,065.0	8,940.4	12,060.6	8,960.1	31.6	28.9	-91.25	-2,935.3	289.5	970.1	910.8	59.31	16.355		
12,100.0	8,940.4	12,095.6	8,960.2	31.8	29.1	-91.25	-2,970.3	289.2	970.1	910.3	59.75	16.235		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
12,160.0	8,940.5	12,155.6	8,960.2	32.1	29.5	-91.25	-3,030.3	288.6	970.1	909.6	60.51	16.032	
12,200.0	8,940.6	12,195.6	8,960.3	32.4	29.7	-91.25	-3,070.3	288.3	970.1	909.1	61.01	15.900	
12,255.0	8,940.7	12,250.6	8,960.4	32.7	30.1	-91.24	-3,125.3	287.8	970.1	908.4	61.71	15.720	
12,300.0	8,940.8	12,295.6	8,960.4	33.0	30.4	-91.24	-3,170.3	287.4	970.1	907.8	62.28	15.575	
12,350.0	8,940.9	12,345.6	8,960.5	33.2	30.7	-91.24	-3,220.3	287.0	970.1	907.1	62.92	15.416	
12,400.0	8,940.9	12,395.6	8,960.5	33.5	31.0	-91.24	-3,270.3	286.5	970.1	906.5	63.57	15.261	
12,445.0	8,941.0	12,440.6	8,960.6	33.8	31.3	-91.24	-3,315.3	286.1	970.1	905.9	64.15	15.122	
12,500.0	8,941.1	12,495.6	8,960.6	34.1	31.6	-91.24	-3,370.3	285.6	970.1	905.2	64.86	14.957	
12,540.0	8,941.2	12,535.6	8,960.7	34.4	31.9	-91.24	-3,410.3	285.3	970.1	904.7	65.38	14.837	
12,600.0	8,941.3	12,595.6	8,960.7	34.7	32.3	-91.23	-3,470.3	284.7	970.1	903.9	66.16	14.662	
12,635.0	8,941.3	12,630.6	8,960.8	35.0	32.5	-91.23	-3,505.3	284.4	970.1	903.4	66.62	14.561	
12,700.0	8,941.4	12,695.6	8,960.9	35.4	32.9	-91.23	-3,570.3	283.9	970.1	902.6	67.47	14.377	
12,730.0	8,941.5	12,725.6	8,960.9	35.5	33.1	-91.23	-3,600.3	283.6	970.1	902.2	67.87	14.293	
12,800.0	8,941.6	12,795.6	8,961.0	36.0	33.6	-91.23	-3,670.3	283.0	970.1	901.3	68.80	14.101	
12,825.0	8,941.6	12,820.6	8,961.0	36.1	33.8	-91.23	-3,695.3	282.7	970.1	900.9	69.13	14.033	
12,900.0	8,941.7	12,895.6	8,961.1	36.6	34.3	-91.23	-3,770.3	282.1	970.1	899.9	70.13	13.833	
12,920.0	8,941.8	12,915.6	8,961.1	36.7	34.4	-91.23	-3,790.3	281.9	970.1	899.7	70.39	13.781	
13,000.0	8,941.9	12,995.6	8,961.2	37.2	34.9	-91.22	-3,870.3	281.2	970.1	898.6	71.46	13.574	
13,015.0	8,941.9	13,010.6	8,961.2	37.3	35.0	-91.22	-3,885.3	281.1	970.1	898.4	71.67	13.536	
13,100.0	8,942.1	13,095.6	8,961.3	37.9	35.6	-91.22	-3,970.3	280.3	970.1	897.3	72.81	13.323	
13,110.0	8,942.1	13,105.6	8,961.3	37.9	35.7	-91.22	-3,980.3	280.2	970.1	897.1	72.94	13.299	
13,200.0	8,942.2	13,195.6	8,961.4	38.5	36.3	-91.22	-4,070.3	279.4	970.1	895.9	74.16	13.081	
13,205.0	8,942.2	13,200.6	8,961.4	38.5	36.3	-91.22	-4,075.3	279.4	970.1	895.8	74.23	13.069	
13,300.0	8,942.4	13,295.6	8,961.5	39.1	37.0	-91.21	-4,170.2	278.5	970.1	894.5	75.52	12.845	
13,395.0	8,942.5	13,390.6	8,961.7	39.8	37.6	-91.21	-4,265.2	277.7	970.1	893.2	76.82	12.628	
13,400.0	8,942.5	13,395.6	8,961.7	39.8	37.7	-91.21	-4,270.2	277.6	970.1	893.2	76.88	12.617	
13,490.0	8,942.7	13,485.6	8,961.8	40.4	38.3	-91.21	-4,360.2	276.8	970.1	891.9	78.12	12.418	
13,500.0	8,942.7	13,495.6	8,961.8	40.5	38.4	-91.21	-4,370.2	276.8	970.1	891.8	78.26	12.396	
13,585.0	8,942.8	13,580.6	8,961.9	41.0	39.0	-91.21	-4,455.2	276.0	970.1	890.6	79.43	12.213	
13,600.0	8,942.9	13,595.6	8,961.9	41.1	39.1	-91.21	-4,470.2	275.9	970.1	890.4	79.63	12.182	
13,680.0	8,943.0	13,675.6	8,962.0	41.6	39.6	-91.20	-4,550.2	275.2	970.1	889.3	80.74	12.015	
13,700.0	8,943.0	13,695.6	8,962.0	41.8	39.8	-91.20	-4,570.2	275.0	970.1	889.0	81.01	11.974	
13,775.0	8,943.2	13,770.6	8,962.1	42.3	40.3	-91.20	-4,645.2	274.3	970.1	888.0	82.05	11.822	
13,800.0	8,943.2	13,795.6	8,962.1	42.4	40.5	-91.20	-4,670.2	274.1	970.1	887.7	82.40	11.772	
13,870.0	8,943.3	13,865.6	8,962.2	42.9	41.0	-91.20	-4,740.2	273.5	970.1	886.7	83.38	11.635	
13,900.0	8,943.4	13,895.6	8,962.2	43.1	41.2	-91.20	-4,770.2	273.2	970.1	886.3	83.79	11.577	
13,965.0	8,943.5	13,960.6	8,962.3	43.5	41.6	-91.20	-4,835.2	272.6	970.1	885.4	84.70	11.453	
14,000.0	8,943.5	13,995.6	8,962.3	43.8	41.9	-91.19	-4,870.2	272.3	970.1	884.9	85.19	11.387	
14,060.0	8,943.6	14,055.6	8,962.4	44.2	42.3	-91.19	-4,930.2	271.8	970.1	884.0	86.03	11.276	
14,100.0	8,943.7	14,095.6	8,962.5	44.5	42.6	-91.19	-4,970.2	271.4	970.1	883.5	86.59	11.203	
14,155.0	8,943.8	14,150.6	8,962.5	44.8	43.0	-91.19	-5,025.2	271.0	970.1	882.7	87.36	11.104	
14,200.0	8,943.8	14,195.6	8,962.6	45.1	43.3	-91.19	-5,070.2	270.6	970.1	882.1	88.00	11.024	
14,250.0	8,943.9	14,245.6	8,962.6	45.5	43.7	-91.19	-5,120.2	270.1	970.1	881.4	88.70	10.936	
14,300.0	8,944.0	14,295.6	8,962.7	45.8	44.0	-91.19	-5,170.2	269.7	970.1	880.7	89.41	10.850	
14,345.0	8,944.1	14,340.6	8,962.7	46.1	44.3	-91.19	-5,215.2	269.3	970.1	880.0	90.04	10.773	
14,400.0	8,944.2	14,395.6	8,962.8	46.5	44.7	-91.18	-5,270.2	268.8	970.1	879.2	90.82	10.681	
14,440.0	8,944.2	14,435.6	8,962.8	46.8	45.0	-91.18	-5,310.2	268.4	970.1	878.7	91.39	10.615	
14,500.0	8,944.3	14,495.6	8,962.9	47.2	45.4	-91.18	-5,370.2	267.9	970.1	877.8	92.24	10.517	
14,535.0	8,944.4	14,530.6	8,963.0	47.4	45.7	-91.18	-5,405.2	267.6	970.1	877.3	92.73	10.461	
14,600.0	8,944.5	14,595.6	8,963.0	47.9	46.2	-91.18	-5,470.2	267.0	970.1	876.4	93.66	10.358	
14,630.0	8,944.5	14,625.6	8,963.1	48.1	46.4	-91.18	-5,500.2	266.7	970.1	876.0	94.08	10.311	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-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
14,700.0	8,944.6	14,695.6	8,963.1	48.6	46.9	-91.18	-5,570.2	266.1	970.1	875.0	95.08	10.203	
14,725.0	8,944.7	14,720.6	8,963.2	48.7	47.1	-91.17	-5,595.2	265.9	970.1	874.6	95.44	10.164	
14,800.0	8,944.8	14,795.6	8,963.3	49.3	47.6	-91.17	-5,670.2	265.2	970.1	873.6	96.51	10.052	
14,820.0	8,944.8	14,815.6	8,963.3	49.4	47.7	-91.17	-5,690.2	265.1	970.1	873.3	96.79	10.022	
14,900.0	8,945.0	14,895.6	8,963.4	50.0	48.3	-91.17	-5,770.2	264.3	970.1	872.1	97.94	9.905	
14,915.0	8,945.0	14,910.6	8,963.4	50.1	48.4	-91.17	-5,785.2	264.2	970.1	871.9	98.15	9.883	
15,000.0	8,945.1	14,995.6	8,963.5	50.7	49.0	-91.17	-5,870.2	263.5	970.1	870.7	99.37	9.762	
15,010.0	8,945.1	15,005.6	8,963.5	50.7	49.1	-91.17	-5,880.2	263.4	970.1	870.5	99.51	9.748	
15,100.0	8,945.3	15,095.6	8,963.6	51.4	49.8	-91.16	-5,970.2	262.6	970.1	869.3	100.80	9.623	
15,105.0	8,945.3	15,100.6	8,963.6	51.4	49.8	-91.16	-5,975.2	262.5	970.1	869.2	100.88	9.616	
15,200.0	8,945.5	15,195.6	8,963.7	52.1	50.5	-91.16	-6,070.2	261.7	970.1	867.8	102.24	9.488	
15,295.0	8,945.6	15,290.6	8,963.8	52.7	51.2	-91.16	-6,165.2	260.8	970.1	866.4	103.61	9.362	
15,300.0	8,945.6	15,295.6	8,963.8	52.8	51.2	-91.16	-6,170.2	260.8	970.1	866.4	103.68	9.356	
15,390.0	8,945.8	15,385.6	8,963.9	53.4	51.9	-91.16	-6,260.2	260.0	970.1	865.1	104.98	9.240	
15,400.0	8,945.8	15,395.6	8,963.9	53.5	52.0	-91.16	-6,270.2	259.9	970.1	864.9	105.13	9.227	
15,485.0	8,945.9	15,480.6	8,964.0	54.1	52.6	-91.15	-6,355.2	259.2	970.1	863.7	106.36	9.121	
15,500.0	8,945.9	15,495.6	8,964.1	54.2	52.7	-91.15	-6,370.2	259.0	970.1	863.5	106.57	9.102	
15,580.0	8,946.1	15,575.6	8,964.2	54.7	53.3	-91.15	-6,450.2	258.3	970.1	862.3	107.73	9.004	
15,600.0	8,946.1	15,595.6	8,964.2	54.9	53.4	-91.15	-6,470.2	258.1	970.1	862.0	108.02	8.980	
15,675.0	8,946.2	15,670.6	8,964.3	55.4	54.0	-91.15	-6,545.2	257.5	970.1	860.9	109.11	8.891	
15,700.0	8,946.3	15,695.6	8,964.3	55.6	54.1	-91.15	-6,570.2	257.2	970.1	860.6	109.47	8.861	
15,770.0	8,946.4	15,765.6	8,964.4	56.1	54.7	-91.15	-6,640.1	256.6	970.1	859.6	110.49	8.780	
15,800.0	8,946.4	15,795.6	8,964.4	56.3	54.9	-91.14	-6,670.1	256.4	970.1	859.1	110.92	8.745	
15,865.0	8,946.5	15,860.6	8,964.5	56.8	55.4	-91.14	-6,735.1	255.8	970.1	858.2	111.87	8.671	
15,900.0	8,946.6	15,895.6	8,964.5	57.0	55.6	-91.14	-6,770.1	255.5	970.1	857.7	112.38	8.632	
15,960.0	8,946.7	15,955.6	8,964.6	57.4	56.1	-91.14	-6,830.1	254.9	970.1	856.8	113.25	8.566	
16,000.0	8,946.7	15,995.6	8,964.6	57.7	56.3	-91.14	-6,870.1	254.6	970.1	856.2	113.83	8.522	
16,055.0	8,946.8	16,050.6	8,964.7	58.1	56.7	-91.14	-6,925.1	254.1	970.1	855.4	114.63	8.462	
16,100.0	8,946.9	16,095.6	8,964.7	58.5	57.1	-91.14	-6,970.1	253.7	970.1	854.8	115.29	8.414	
16,150.0	8,947.0	16,145.6	8,964.8	58.8	57.4	-91.13	-7,020.1	253.3	970.1	854.0	116.02	8.361	
16,200.0	8,947.1	16,195.6	8,964.9	59.2	57.8	-91.13	-7,070.1	252.8	970.1	853.3	116.75	8.309	
16,245.0	8,947.1	16,240.6	8,964.9	59.5	58.1	-91.13	-7,115.1	252.4	970.1	852.6	117.41	8.262	
16,300.0	8,947.2	16,295.6	8,965.0	59.9	58.6	-91.13	-7,170.1	251.9	970.1	851.8	118.21	8.206	
16,340.0	8,947.3	16,335.6	8,965.0	60.2	58.8	-91.13	-7,210.1	251.6	970.1	851.3	118.80	8.166	
16,400.0	8,947.4	16,395.6	8,965.1	60.6	59.3	-91.13	-7,270.1	251.0	970.1	850.4	119.67	8.106	
16,435.0	8,947.5	16,430.6	8,965.1	60.9	59.6	-91.13	-7,305.1	250.7	970.1	849.9	120.19	8.071	
16,500.0	8,947.6	16,495.6	8,965.2	61.3	60.0	-91.12	-7,370.1	250.2	970.1	848.9	121.14	8.008	
16,530.0	8,947.6	16,525.6	8,965.2	61.5	60.3	-91.12	-7,400.1	249.9	970.1	848.5	121.58	7.979	
16,600.0	8,947.7	16,595.6	8,965.3	62.1	60.8	-91.12	-7,470.1	249.3	970.1	847.5	122.61	7.912	
16,625.0	8,947.8	16,620.6	8,965.3	62.2	61.0	-91.12	-7,495.1	249.0	970.1	847.1	122.97	7.888	
16,700.0	8,947.9	16,695.6	8,965.4	62.8	61.5	-91.12	-7,570.1	248.4	970.1	846.0	124.07	7.818	
16,720.0	8,947.9	16,715.6	8,965.5	62.9	61.7	-91.12	-7,590.1	248.2	970.1	845.7	124.37	7.800	
16,800.0	8,948.0	16,795.6	8,965.5	63.5	62.2	-91.12	-7,670.1	247.5	970.1	844.5	125.54	7.727	
16,815.0	8,948.1	16,810.6	8,965.6	63.6	62.4	-91.12	-7,685.1	247.4	970.1	844.3	125.76	7.713	
16,900.0	8,948.2	16,895.6	8,965.7	64.2	63.0	-91.11	-7,770.1	246.6	970.1	843.0	127.01	7.637	
16,910.0	8,948.2	16,905.6	8,965.7	64.3	63.1	-91.11	-7,780.1	246.5	970.1	842.9	127.16	7.629	
17,000.0	8,948.4	16,995.6	8,965.8	64.9	63.7	-91.11	-7,870.1	245.7	970.1	841.6	128.48	7.550	
17,005.0	8,948.4	17,000.6	8,965.8	65.0	63.8	-91.11	-7,875.1	245.7	970.1	841.5	128.56	7.546	
17,100.0	8,948.5	17,095.6	8,965.9	65.7	64.5	-91.11	-7,970.1	244.8	970.1	840.1	129.96	7.464	
17,195.0	8,948.7	17,190.6	8,966.0	66.4	65.2	-91.11	-8,065.1	244.0	970.1	838.7	131.36	7.385	
17,200.0	8,948.7	17,195.6	8,966.0	66.4	65.2	-91.11	-8,070.1	243.9	970.1	838.6	131.43	7.381	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:									
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	
17,290.0	8,948.8	17,285.6	8,966.1	67.1	65.9	-91.10	-8,160.1	243.1	970.1	837.3	132.76	7.307
17,300.0	8,948.8	17,295.6	8,966.1	67.1	66.0	-91.10	-8,170.1	243.1	970.1	837.1	132.91	7.299
17,385.0	8,949.0	17,380.6	8,966.2	67.8	66.6	-91.10	-8,255.1	242.3	970.1	835.9	134.16	7.230
17,400.0	8,949.0	17,395.6	8,966.2	67.9	66.7	-91.10	-8,270.1	242.2	970.1	835.7	134.38	7.218
17,480.0	8,949.1	17,475.6	8,966.3	68.4	67.3	-91.10	-8,350.1	241.5	970.1	834.5	135.57	7.156
17,500.0	8,949.2	17,495.6	8,966.3	68.6	67.4	-91.10	-8,370.1	241.3	970.1	834.2	135.86	7.140
17,575.0	8,949.3	17,570.6	8,966.4	69.1	68.0	-91.09	-8,445.1	240.6	970.1	833.1	136.97	7.082
17,600.0	8,949.3	17,595.6	8,966.5	69.3	68.2	-91.09	-8,470.1	240.4	970.1	832.7	137.34	7.063
17,670.0	8,949.4	17,665.6	8,966.5	69.8	68.7	-91.09	-8,540.1	239.8	970.1	831.7	138.38	7.010
17,700.0	8,949.5	17,695.6	8,966.6	70.1	68.9	-91.09	-8,570.1	239.5	970.1	831.2	138.82	6.988
17,765.0	8,949.6	17,760.6	8,966.6	70.5	69.4	-91.09	-8,635.1	238.9	970.1	830.3	139.78	6.940
17,800.0	8,949.7	17,795.6	8,966.7	70.8	69.7	-91.09	-8,670.1	238.6	970.1	829.8	140.30	6.914
17,860.0	8,949.8	17,855.6	8,966.8	71.2	70.1	-91.09	-8,730.1	238.1	970.1	828.9	141.19	6.870
17,900.0	8,949.8	17,895.6	8,966.8	71.5	70.4	-91.09	-8,770.1	237.7	970.1	828.3	141.79	6.842
17,955.0	8,949.9	17,950.6	8,966.9	71.9	70.8	-91.08	-8,825.1	237.2	970.1	827.5	142.60	6.803
18,000.0	8,950.0	17,995.6	8,966.9	72.3	71.2	-91.08	-8,870.1	236.8	970.1	826.8	143.27	6.771
18,050.0	8,950.1	18,045.6	8,967.0	72.6	71.5	-91.08	-8,920.1	236.4	970.1	826.0	144.01	6.736
18,100.0	8,950.1	18,095.6	8,967.0	73.0	71.9	-91.08	-8,970.1	236.0	970.1	825.3	144.75	6.701
18,145.0	8,950.2	18,140.6	8,967.1	73.3	72.3	-91.08	-9,015.1	235.6	970.1	824.6	145.42	6.671
18,200.0	8,950.3	18,195.6	8,967.1	73.7	72.7	-91.08	-9,070.1	235.1	970.1	823.8	146.24	6.633
18,240.0	8,950.4	18,235.6	8,967.2	74.0	73.0	-91.08	-9,110.0	234.7	970.1	823.2	146.83	6.607
18,300.0	8,950.5	18,295.6	8,967.3	74.5	73.4	-91.07	-9,170.0	234.2	970.1	822.3	147.72	6.567
18,335.0	8,950.5	18,330.6	8,967.3	74.7	73.7	-91.07	-9,205.0	233.9	970.1	821.8	148.24	6.544
18,400.0	8,950.6	18,395.6	8,967.4	75.2	74.2	-91.07	-9,270.0	233.3	970.1	820.8	149.21	6.501
18,430.0	8,950.7	18,425.6	8,967.4	75.4	74.4	-91.07	-9,300.0	233.0	970.1	820.4	149.66	6.482
18,500.0	8,950.8	18,495.6	8,967.5	75.9	74.9	-91.07	-9,370.0	232.4	970.1	819.4	150.70	6.437
18,525.0	8,950.8	18,520.6	8,967.5	76.1	75.1	-91.07	-9,395.0	232.2	970.1	819.0	151.07	6.421
18,600.0	8,950.9	18,595.6	8,967.6	76.7	75.7	-91.07	-9,470.0	231.5	970.1	817.9	152.19	6.374
18,620.0	8,951.0	18,615.6	8,967.6	76.8	75.8	-91.07	-9,490.0	231.3	970.1	817.6	152.48	6.362
18,700.0	8,951.1	18,695.6	8,967.7	77.4	76.4	-91.06	-9,570.0	230.6	970.1	816.4	153.67	6.312
18,715.0	8,951.1	18,710.6	8,967.7	77.5	76.5	-91.06	-9,585.0	230.5	970.1	816.2	153.90	6.303
18,800.0	8,951.3	18,795.6	8,967.8	78.1	77.2	-91.06	-9,670.0	229.8	970.1	814.9	155.16	6.252
18,810.0	8,951.3	18,805.6	8,967.8	78.2	77.2	-91.06	-9,680.0	229.7	970.1	814.7	155.31	6.246
18,900.0	8,951.4	18,895.6	8,967.9	78.9	77.9	-91.06	-9,770.0	228.9	970.1	813.4	156.65	6.192
18,905.0	8,951.4	18,900.6	8,967.9	78.9	77.9	-91.06	-9,775.0	228.8	970.1	813.3	156.73	6.189
19,000.0	8,951.6	18,995.6	8,968.1	79.6	78.7	-91.06	-9,870.0	228.0	970.1	811.9	158.15	6.134
19,095.0	8,951.7	19,090.6	8,968.2	80.3	79.4	-91.05	-9,965.0	227.1	970.1	810.5	159.56	6.079
19,100.0	8,951.8	19,095.6	8,968.2	80.4	79.4	-91.05	-9,970.0	227.1	970.1	810.4	159.64	6.077
19,190.0	8,951.9	19,185.6	8,968.3	81.0	80.1	-91.05	-10,060.0	226.3	970.1	809.1	160.98	6.026
19,200.0	8,951.9	19,195.6	8,968.3	81.1	80.2	-91.05	-10,070.0	226.2	970.1	808.9	161.13	6.020
19,285.0	8,952.1	19,280.6	8,968.4	81.7	80.8	-91.05	-10,155.0	225.5	970.1	807.7	162.40	5.973
19,300.0	8,952.1	19,295.6	8,968.4	81.8	80.9	-91.05	-10,170.0	225.3	970.1	807.4	162.62	5.965
19,380.0	8,952.2	19,375.6	8,968.5	82.4	81.5	-91.04	-10,250.0	224.6	970.1	806.2	163.82	5.921
19,400.0	8,952.2	19,395.6	8,968.5	82.6	81.7	-91.04	-10,270.0	224.4	970.1	805.9	164.12	5.911
19,475.0	8,952.4	19,470.6	8,968.6	83.1	82.2	-91.04	-10,345.0	223.8	970.1	804.8	165.24	5.871
19,500.0	8,952.4	19,495.6	8,968.6	83.3	82.4	-91.04	-10,370.0	223.5	970.1	804.4	165.61	5.857
19,570.0	8,952.5	19,565.6	8,968.7	83.8	82.9	-91.04	-10,440.0	222.9	970.1	803.4	166.66	5.821
19,600.0	8,952.6	19,595.6	8,968.7	84.1	83.2	-91.04	-10,470.0	222.7	970.1	802.9	167.11	5.805
19,665.0	8,952.7	19,660.6	8,968.8	84.6	83.7	-91.04	-10,535.0	222.1	970.1	802.0	168.08	5.771
19,700.0	8,952.7	19,695.6	8,968.9	84.8	83.9	-91.04	-10,570.0	221.8	970.1	801.4	168.60	5.753
19,760.0	8,952.8	19,755.6	8,968.9	85.3	84.4	-91.03	-10,630.0	221.2	970.1	800.6	169.50	5.723

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
19,800.0	8,952.9	19,795.6	8,969.0	85.6	84.7	-91.03	-10,670.0	220.9	970.1	800.0	170.10	5.703
19,855.0	8,953.0	19,850.6	8,969.0	86.0	85.1	-91.03	-10,725.0	220.4	970.1	799.1	170.92	5.675
19,900.0	8,953.0	19,895.6	8,969.1	86.3	85.4	-91.03	-10,770.0	220.0	970.1	798.5	171.60	5.653
19,950.0	8,953.1	19,945.6	8,969.1	86.7	85.8	-91.03	-10,820.0	219.6	970.1	797.7	172.35	5.629
20,000.0	8,953.2	19,995.6	8,969.2	87.0	86.2	-91.03	-10,870.0	219.1	970.1	797.0	173.09	5.604
20,045.0	8,953.3	20,040.6	8,969.3	87.4	86.5	-91.03	-10,915.0	218.7	970.1	796.3	173.77	5.582
20,100.0	8,953.4	20,095.6	8,969.3	87.8	86.9	-91.02	-10,970.0	218.2	970.1	795.5	174.59	5.556
20,140.0	8,953.4	20,135.6	8,969.4	88.1	87.2	-91.02	-11,010.0	217.9	970.1	794.9	175.19	5.537
20,200.0	8,953.5	20,195.6	8,969.4	88.5	87.7	-91.02	-11,070.0	217.3	970.1	794.0	176.09	5.509
20,235.0	8,953.6	20,230.6	8,969.5	88.8	87.9	-91.02	-11,105.0	217.0	970.1	793.4	176.62	5.492
20,300.0	8,953.7	20,295.6	8,969.5	89.3	88.4	-91.02	-11,170.0	216.4	970.1	792.5	177.59	5.462
20,330.0	8,953.7	20,325.6	8,969.6	89.5	88.7	-91.02	-11,200.0	216.2	970.1	792.0	178.04	5.449
20,400.0	8,953.9	20,395.6	8,969.7	90.0	89.2	-91.02	-11,270.0	215.6	970.1	791.0	179.09	5.417
20,425.0	8,953.9	20,420.6	8,969.7	90.2	89.4	-91.02	-11,295.0	215.3	970.1	790.6	179.46	5.405
20,500.0	8,954.0	20,495.6	8,969.8	90.8	89.9	-91.01	-11,370.0	214.7	970.1	789.5	180.59	5.372
20,520.0	8,954.1	20,515.6	8,969.8	90.9	90.1	-91.01	-11,390.0	214.5	970.1	789.2	180.89	5.363
20,600.0	8,954.2	20,595.6	8,969.9	91.5	90.7	-91.01	-11,470.0	213.8	970.1	788.0	182.09	5.327
20,615.0	8,954.2	20,610.6	8,969.9	91.6	90.8	-91.01	-11,485.0	213.7	970.1	787.7	182.31	5.321
20,700.0	8,954.3	20,695.6	8,970.0	92.3	91.4	-91.01	-11,570.0	212.9	970.1	786.5	183.59	5.284
20,710.0	8,954.4	20,705.6	8,970.0	92.3	91.5	-91.01	-11,579.9	212.8	970.1	786.3	183.74	5.279
20,800.0	8,954.5	20,795.6	8,970.1	93.0	92.2	-91.00	-11,669.9	212.0	970.1	785.0	185.09	5.241
20,805.0	8,954.5	20,800.6	8,970.1	93.0	92.2	-91.00	-11,674.9	212.0	970.1	784.9	185.17	5.239
20,900.0	8,954.7	20,895.6	8,970.2	93.7	92.9	-91.00	-11,769.9	211.1	970.1	783.5	186.59	5.199
20,995.0	8,954.8	20,990.6	8,970.3	94.5	93.7	-91.00	-11,864.9	210.3	970.1	782.0	188.02	5.159
21,000.0	8,954.8	20,995.6	8,970.3	94.5	93.7	-91.00	-11,869.9	210.2	970.1	782.0	188.10	5.157
21,090.0	8,955.0	21,085.6	8,970.4	95.2	94.4	-91.00	-11,959.9	209.4	970.1	780.6	189.45	5.120
21,100.0	8,955.0	21,095.6	8,970.5	95.2	94.5	-91.00	-11,969.9	209.4	970.1	780.5	189.60	5.116
21,185.0	8,955.1	21,180.6	8,970.6	95.9	95.1	-90.99	-12,054.9	208.6	970.1	779.2	190.88	5.082
21,200.0	8,955.1	21,195.6	8,970.6	96.0	95.2	-90.99	-12,069.9	208.5	970.1	778.9	191.10	5.076
21,280.0	8,955.3	21,275.6	8,970.7	96.6	95.8	-90.99	-12,149.9	207.8	970.1	777.7	192.30	5.044
21,300.0	8,955.3	21,295.6	8,970.7	96.7	96.0	-90.99	-12,169.9	207.6	970.1	777.4	192.60	5.036
21,375.0	8,955.4	21,370.6	8,970.8	97.3	96.5	-90.99	-12,244.9	206.9	970.1	776.3	193.73	5.007
21,400.0	8,955.5	21,395.6	8,970.8	97.5	96.7	-90.99	-12,269.9	206.7	970.1	775.9	194.11	4.997
21,470.0	8,955.6	21,465.6	8,970.9	98.0	97.2	-90.99	-12,339.9	206.1	970.1	774.9	195.16	4.971
21,500.0	8,955.6	21,495.6	8,970.9	98.2	97.5	-90.99	-12,369.9	205.8	970.1	774.4	195.61	4.959
21,565.0	8,955.7	21,560.6	8,971.0	98.7	98.0	-90.98	-12,434.9	205.2	970.1	773.5	196.59	4.934
21,600.0	8,955.8	21,595.6	8,971.0	99.0	98.2	-90.98	-12,469.9	204.9	970.1	772.9	197.12	4.921
21,660.0	8,955.9	21,655.6	8,971.1	99.4	98.7	-90.98	-12,529.9	204.4	970.1	772.0	198.02	4.899
21,700.0	8,956.0	21,695.6	8,971.1	99.7	99.0	-90.98	-12,569.9	204.0	970.1	771.4	198.62	4.884
21,755.0	8,956.0	21,750.6	8,971.2	100.1	99.4	-90.98	-12,624.9	203.5	970.1	770.6	199.45	4.864
21,800.0	8,956.1	21,795.6	8,971.3	100.5	99.7	-90.98	-12,669.9	203.1	970.1	769.9	200.13	4.847
21,850.0	8,956.2	21,845.6	8,971.3	100.9	100.1	-90.98	-12,719.9	202.7	970.1	769.2	200.88	4.829
21,900.0	8,956.3	21,895.6	8,971.4	101.2	100.5	-90.97	-12,769.9	202.3	970.1	768.4	201.63	4.811
21,945.0	8,956.4	21,940.6	8,971.4	101.6	100.8	-90.97	-12,814.9	201.9	970.1	767.7	202.31	4.795
22,000.0	8,956.4	21,995.6	8,971.5	102.0	101.3	-90.97	-12,869.9	201.4	970.1	766.9	203.14	4.775
22,040.0	8,956.5	22,035.6	8,971.5	102.3	101.6	-90.97	-12,909.9	201.0	970.1	766.3	203.74	4.761
22,100.0	8,956.6	22,095.6	8,971.6	102.7	102.0	-90.97	-12,969.9	200.5	970.1	765.4	204.65	4.740
22,135.0	8,956.7	22,130.6	8,971.6	103.0	102.3	-90.97	-13,004.9	200.2	970.1	764.9	205.17	4.728
22,200.0	8,956.8	22,195.6	8,971.7	103.5	102.8	-90.97	-13,069.9	199.6	970.1	763.9	206.15	4.706
22,230.0	8,956.8	22,225.6	8,971.7	103.7	103.0	-90.96	-13,099.9	199.3	970.1	763.4	206.60	4.695
22,300.0	8,956.9	22,295.6	8,971.8	104.2	103.5	-90.96	-13,169.9	198.7	970.1	762.4	207.66	4.671

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Rule Assigned:												
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Warning
22,325.0	8,957.0	22,320.6	8,971.9	104.4	103.7	-90.96	-90.96	-13,194.9	198.5	970.1	208.04	4.663
22,400.0	8,957.1	22,395.6	8,971.9	105.0	104.3	-90.96	-90.96	-13,269.9	197.8	970.1	209.17	4.638
22,420.0	8,957.1	22,415.6	8,972.0	105.1	104.4	-90.96	-90.96	-13,289.9	197.6	970.1	209.47	4.631
22,500.0	8,957.2	22,495.6	8,972.1	105.7	105.0	-90.96	-90.96	-13,369.9	196.9	970.1	210.67	4.605
22,515.0	8,957.3	22,510.6	8,972.1	105.8	105.1	-90.96	-90.96	-13,384.9	196.8	970.1	210.90	4.600
22,600.0	8,957.4	22,595.6	8,972.2	106.5	105.8	-90.95	-90.95	-13,469.9	196.1	970.1	212.18	4.572
22,610.0	8,957.4	22,605.6	8,972.2	106.6	105.9	-90.95	-90.95	-13,479.9	196.0	970.1	212.33	4.569
22,700.0	8,957.6	22,695.6	8,972.3	107.2	106.5	-90.95	-90.95	-13,569.9	195.2	970.1	213.69	4.540
22,705.0	8,957.6	22,700.6	8,972.3	107.3	106.6	-90.95	-90.95	-13,574.9	195.1	970.1	213.76	4.538
22,800.0	8,957.7	22,795.6	8,972.4	108.0	107.3	-90.95	-90.95	-13,669.9	194.3	970.1	215.20	4.508
22,895.0	8,957.9	22,890.6	8,972.5	108.7	108.0	-90.95	-90.95	-13,764.9	193.4	970.1	216.63	4.478
22,900.0	8,957.9	22,895.6	8,972.5	108.7	108.1	-90.95	-90.95	-13,769.9	193.4	970.1	216.71	4.476
22,990.0	8,958.0	22,985.6	8,972.6	109.4	108.7	-90.94	-90.94	-13,859.9	192.6	970.1	218.06	4.448
23,000.0	8,958.1	22,995.6	8,972.6	109.5	108.8	-90.94	-90.94	-13,869.9	192.5	970.1	218.22	4.445
23,085.0	8,958.2	23,080.6	8,972.7	110.1	109.5	-90.94	-90.94	-13,954.9	191.7	970.1	219.50	4.419
23,100.0	8,958.2	23,095.6	8,972.7	110.2	109.6	-90.94	-90.94	-13,969.9	191.6	970.1	219.72	4.415
23,180.0	8,958.3	23,175.6	8,972.8	110.8	110.2	-90.94	-90.94	-14,049.9	190.9	970.1	220.93	4.391
23,200.0	8,958.4	23,195.6	8,972.9	111.0	110.3	-90.94	-90.94	-14,069.9	190.7	970.1	221.23	4.385
23,275.0	8,958.5	23,270.6	8,972.9	111.5	110.9	-90.94	-90.94	-14,144.8	190.1	970.1	222.37	4.362
23,278.2	8,958.5	23,273.7	8,972.9	111.6	110.9	-90.94	-90.94	-14,148.0	190.0	970.1	222.41	4.361
23,300.0	8,958.5	23,295.6	8,973.0	111.7	111.1	-90.93	-90.93	-14,169.8	189.8	970.1	222.74	4.355
23,370.0	8,958.7	23,365.6	8,973.0	112.3	111.6	-90.93	-90.93	-14,239.8	189.2	970.1	223.80	4.334
23,400.0	8,958.7	23,395.6	8,973.1	112.5	111.8	-90.93	-90.93	-14,269.8	189.0	970.1	224.25	4.326
23,465.0	8,958.8	23,460.6	8,973.2	113.0	112.3	-90.93	-90.93	-14,334.8	188.4	970.1	225.24	4.307
23,500.0	8,958.9	23,495.6	8,973.2	113.2	112.6	-90.93	-90.93	-14,369.8	188.1	970.1	225.76	4.297
23,560.0	8,959.0	23,555.6	8,973.3	113.7	113.1	-90.93	-90.93	-14,429.8	187.5	970.1	226.67	4.280
23,600.0	8,959.0	23,595.6	8,973.3	114.0	113.4	-90.93	-90.93	-14,469.8	187.2	970.1	227.27	4.268
23,655.0	8,959.1	23,650.6	8,973.4	114.4	113.8	-90.92	-90.92	-14,524.8	186.7	970.1	228.11	4.253
23,700.0	8,959.2	23,695.6	8,973.4	114.7	114.1	-90.92	-90.92	-14,569.8	186.3	970.1	228.78	4.240
23,750.0	8,959.3	23,745.6	8,973.5	115.1	114.5	-90.92	-90.92	-14,619.8	185.9	970.1	229.54	4.226
23,800.0	8,959.3	23,795.6	8,973.5	115.5	114.9	-90.92	-90.92	-14,669.8	185.4	970.1	230.30	4.212
23,845.0	8,959.4	23,840.6	8,973.6	115.8	115.2	-90.92	-90.92	-14,714.8	185.0	970.1	230.98	4.200
23,900.0	8,959.5	23,895.6	8,973.7	116.3	115.6	-90.92	-90.92	-14,769.8	184.5	970.1	231.81	4.185
23,940.0	8,959.6	23,935.6	8,973.7	116.6	115.9	-90.92	-90.92	-14,809.8	184.2	970.1	232.41	4.174
24,000.0	8,959.7	23,995.6	8,973.8	117.0	116.4	-90.92	-90.92	-14,869.8	183.6	970.1	233.32	4.158
24,035.0	8,959.7	24,030.6	8,973.8	117.3	116.7	-90.91	-90.91	-14,904.8	183.3	970.1	233.85	4.148
24,072.6	8,959.8	24,068.2	8,973.9	117.5	116.9	-90.91	-90.91	-14,942.4	183.0	970.1	234.41	4.138
24,100.0	8,959.8	24,095.6	8,973.9	117.8	117.1	-90.91	-90.91	-14,969.8	182.7	970.1	234.83	4.131
24,130.0	8,959.9	24,125.6	8,973.9	118.0	117.4	-90.91	-90.91	-14,999.8	182.5	970.1	235.28	4.123
24,138.0	8,959.9	24,133.6	8,973.9	118.0	117.4	-90.91	-90.91	-15,007.8	182.4	970.1	235.40	4.121
24,202.6	8,960.0	24,197.9	8,974.0	118.5	117.9	-90.91	-90.91	-15,072.2	181.8	970.1	236.37	4.104 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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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	88.85	0.6	30.0	30.0				
95.0	95.0	94.3	94.3	3.0	3.0	88.85	0.6	30.0	30.0	24.0	6.04	4.971	
100.0	100.0	99.3	99.3	3.0	3.0	88.85	0.6	30.0	30.0	24.0	6.04	4.967	
190.0	190.0	189.3	189.3	3.1	3.1	88.85	0.6	30.0	30.0	23.8	6.25	4.800	
200.0	200.0	199.3	199.3	3.1	3.1	88.85	0.6	30.0	30.0	23.7	6.29	4.774	
285.0	285.0	284.3	284.3	3.3	3.2	88.85	0.6	30.0	30.0	23.5	6.48	4.629	
300.0	300.0	299.3	299.3	3.3	3.3	88.85	0.6	30.0	30.0	23.5	6.52	4.601	
380.0	380.0	379.3	379.3	3.4	3.4	88.85	0.6	30.0	30.0	23.3	6.70	4.478	
400.0	400.0	399.3	399.3	3.4	3.4	88.85	0.6	30.0	30.0	23.3	6.75	4.446	
475.0	475.0	474.3	474.3	3.5	3.5	88.85	0.6	30.0	30.0	23.1	6.91	4.341	
500.0	500.0	499.3	499.3	3.5	3.5	88.85	0.6	30.0	30.0	23.0	6.97	4.305	
570.0	570.0	569.3	569.3	3.6	3.6	88.85	0.6	30.0	30.0	22.9	7.12	4.216	
600.0	600.0	599.3	599.3	3.6	3.6	88.85	0.6	30.0	30.0	22.8	7.18	4.177	
665.0	665.0	664.3	664.3	3.7	3.7	88.85	0.6	30.0	30.0	22.7	7.32	4.101	
700.0	700.0	699.3	699.3	3.8	3.8	88.85	0.6	30.0	30.0	22.6	7.39	4.060	
760.0	760.0	759.3	759.3	3.8	3.8	88.85	0.6	30.0	30.0	22.5	7.51	3.995	
800.0	800.0	799.3	799.3	3.9	3.9	88.85	0.6	30.0	30.0	22.4	7.59	3.952	
855.0	855.0	854.3	854.3	4.0	3.9	88.85	0.6	30.0	30.0	22.3	7.70	3.897	
900.0	900.0	899.3	899.3	4.0	4.0	88.85	0.6	30.0	30.0	22.2	7.79	3.852	
950.0	950.0	949.3	949.3	4.1	4.1	88.85	0.6	30.0	30.0	22.1	7.88	3.805	
1,000.0	1,000.0	999.3	999.3	4.1	4.1	88.85	0.6	30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,044.3	1,044.3	4.2	4.2	88.85	0.6	30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,099.3	1,099.3	4.2	4.2	88.85	0.6	30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,139.3	1,139.3	4.3	4.3	88.85	0.6	30.0	30.0	21.8	8.24	3.641	
1,200.0	1,200.0	1,199.3	1,199.3	4.4	4.4	88.85	0.6	30.0	30.0	21.7	8.35	3.593	
1,235.0	1,235.0	1,234.3	1,234.3	4.4	4.4	88.85	0.6	30.0	30.0	21.6	8.41	3.566	
1,300.0	1,300.0	1,299.3	1,299.3	4.5	4.5	88.85	0.6	30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,329.3	1,329.3	4.5	4.5	88.85	0.6	30.0	30.0	21.4	8.58	3.496	
1,400.0	1,400.0	1,399.3	1,399.3	4.6	4.6	88.85	0.6	30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,424.3	1,424.3	4.6	4.6	88.85	0.6	30.0	30.0	21.3	8.75	3.429	
1,500.0	1,500.0	1,499.3	1,499.3	4.7	4.7	88.85	0.6	30.0	30.0	21.1	8.88	3.379 CC	
1,520.0	1,520.0	1,519.4	1,519.4	4.7	4.8	149.64	0.7	30.0	30.0	21.1	8.93	3.362 ES	
1,600.0	1,600.0	1,599.8	1,599.7	4.9	4.9	148.43	2.1	29.2	30.7	21.6	9.15	3.362	
1,615.0	1,615.0	1,614.8	1,614.8	4.9	4.9	148.03	2.6	28.9	31.0	21.8	9.21	3.365	
1,700.0	1,699.8	1,700.2	1,700.0	5.1	5.2	144.94	6.8	26.7	33.0	23.5	9.56	3.454	
1,710.0	1,709.8	1,710.2	1,710.0	5.1	5.2	144.50	7.4	26.4	33.3	23.7	9.60	3.473	
1,800.0	1,799.5	1,800.4	1,799.9	5.3	5.4	140.09	14.5	22.7	37.0	27.1	9.95	3.721	
1,805.0	1,804.4	1,805.5	1,804.9	5.3	5.5	139.83	15.0	22.4	37.3	27.3	9.97	3.739	
1,900.0	1,898.7	1,900.6	1,899.3	5.6	5.7	134.85	25.3	16.9	42.9	32.6	10.32	4.162	
1,995.0	1,992.5	1,995.3	1,992.9	5.9	5.9	131.14	37.6	10.5	50.6	40.0	10.60	4.771	
2,000.0	1,997.5	2,000.3	1,997.9	5.9	5.9	131.04	38.3	10.1	51.1	40.4	10.62	4.808	
2,090.0	2,085.8	2,089.8	2,086.4	6.2	6.1	130.60	50.0	3.9	60.4	49.4	10.98	5.499	
2,100.0	2,095.6	2,099.7	2,096.2	6.3	6.2	130.68	51.3	3.3	61.5	50.5	11.02	5.583	
2,185.0	2,178.5	2,184.0	2,179.6	6.6	6.4	132.05	62.3	-2.6	72.2	60.8	11.40	6.335	
2,200.1	2,193.1	2,198.9	2,194.4	6.6	6.4	132.40	64.2	-3.6	74.3	62.8	11.47	6.477	
2,280.0	2,270.7	2,278.0	2,272.6	6.9	6.7	134.20	74.6	-9.1	85.5	73.7	11.84	7.226	
2,300.0	2,290.1	2,297.8	2,292.2	6.9	6.7	134.58	77.2	-10.4	88.3	76.4	11.93	7.407	
2,375.0	2,362.9	2,372.0	2,365.6	7.2	7.0	135.80	86.9	-15.5	98.9	86.7	12.28	8.057	
2,400.0	2,387.1	2,396.8	2,390.0	7.3	7.0	136.16	90.1	-17.2	102.5	90.1	12.40	8.266	
2,470.0	2,455.0	2,466.0	2,458.5	7.5	7.3	137.02	99.2	-22.0	112.4	99.7	12.74	8.825	
2,500.0	2,484.1	2,495.7	2,487.9	7.6	7.4	137.35	103.0	-24.1	116.7	103.8	12.88	9.055	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,565.0	2,547.2	2,560.1	2,551.5	7.8	7.6	137.98		111.5	-28.5	125.9	112.7	13.21	9.533	
2,600.0	2,581.2	2,594.7	2,585.8	8.0	7.7	138.29		116.0	-30.9	130.9	117.5	13.38	9.780	
2,660.0	2,639.4	2,654.1	2,644.5	8.2	7.9	138.76		123.8	-35.0	139.4	125.8	13.69	10.185	
2,700.0	2,678.2	2,693.7	2,683.7	8.4	8.0	139.04		128.9	-37.7	145.1	131.2	13.90	10.445	
2,755.0	2,731.6	2,748.1	2,737.5	8.6	8.2	139.39		136.0	-41.5	153.0	138.8	14.18	10.786	
2,800.0	2,775.2	2,792.6	2,781.5	8.7	8.4	139.66		141.9	-44.6	159.4	145.0	14.42	11.055	
2,850.0	2,823.7	2,842.1	2,830.5	8.9	8.6	139.93		148.3	-48.0	166.6	151.9	14.69	11.340	
2,900.0	2,872.3	2,891.6	2,879.4	9.1	8.7	140.17		154.8	-51.4	173.7	158.8	14.96	11.615	
2,945.0	2,915.9	2,936.1	2,923.5	9.3	8.9	140.38		160.6	-54.5	180.1	164.9	15.20	11.851	
3,000.0	2,969.3	2,990.5	2,977.3	9.5	9.1	140.61		167.7	-58.2	188.0	172.5	15.50	12.130	
3,040.0	3,008.1	3,030.1	3,016.4	9.7	9.2	140.77		172.9	-61.0	193.7	178.0	15.72	12.323	
3,100.0	3,066.3	3,089.5	3,075.2	9.9	9.5	140.99		180.7	-65.1	202.3	186.3	16.05	12.603	
3,135.0	3,100.3	3,124.1	3,109.4	10.1	9.6	141.11		185.2	-67.4	207.3	191.1	16.25	12.760	
3,200.0	3,163.3	3,188.5	3,173.0	10.4	9.8	141.31		193.6	-71.9	216.6	200.0	16.61	13.040	
3,230.0	3,192.5	3,218.2	3,202.4	10.5	10.0	141.40		197.5	-73.9	220.9	204.2	16.78	13.164	
3,300.0	3,260.4	3,287.4	3,270.9	10.8	10.2	141.60		206.6	-78.7	231.0	213.8	17.18	13.444	
3,325.0	3,284.6	3,312.2	3,295.4	10.9	10.3	141.67		209.8	-80.4	234.5	217.2	17.32	13.540	
3,400.0	3,357.4	3,386.4	3,368.8	11.2	10.6	141.85		219.5	-85.5	245.3	227.5	17.75	13.817	
3,420.0	3,376.8	3,406.2	3,388.4	11.3	10.7	141.90		222.1	-86.9	248.2	230.3	17.87	13.888	
3,500.0	3,454.4	3,485.4	3,466.7	11.7	11.0	142.08		232.4	-92.4	259.6	241.3	18.33	14.163	
3,515.0	3,469.0	3,500.2	3,481.3	11.7	11.1	142.11		234.4	-93.4	261.8	243.4	18.42	14.212	
3,600.0	3,551.5	3,584.3	3,564.5	12.1	11.4	142.28		245.4	-99.2	274.0	255.1	18.92	14.484	
3,610.0	3,561.2	3,594.2	3,574.3	12.1	11.4	142.30		246.7	-99.9	275.4	256.4	18.97	14.515	
3,700.0	3,648.5	3,683.3	3,662.4	12.5	11.8	142.46		258.3	-106.0	288.3	268.8	19.50	14.782	
3,705.0	3,653.3	3,688.2	3,667.3	12.6	11.8	142.47		259.0	-106.4	289.0	269.5	19.53	14.797	
3,800.0	3,745.5	3,782.2	3,760.3	13.0	12.2	142.62		271.3	-112.9	302.6	282.6	20.10	15.060	
3,895.0	3,837.7	3,876.3	3,853.3	13.4	12.6	142.77		283.5	-119.4	316.3	295.6	20.66	15.307	
3,900.0	3,842.5	3,881.2	3,858.2	13.4	12.6	142.77		284.2	-119.7	317.0	296.3	20.69	15.320	
3,990.0	3,929.9	3,970.3	3,946.2	13.8	12.9	142.90		295.8	-125.8	329.9	308.7	21.23	15.539	
4,000.0	3,939.6	3,980.2	3,956.0	13.9	13.0	142.91		297.1	-126.5	331.3	310.0	21.29	15.562	
4,085.0	4,022.0	4,064.3	4,039.2	14.3	13.3	143.02		308.1	-132.3	343.5	321.7	21.80	15.756	
4,100.0	4,036.6	4,079.1	4,053.9	14.3	13.4	143.03		310.1	-133.4	345.7	323.8	21.89	15.789	
4,180.0	4,114.2	4,157.6	4,131.6	14.7	13.7	143.14		320.3	-138.7	357.2	334.8	22.35	15.981	
4,200.0	4,133.6	4,177.0	4,150.7	14.8	13.8	143.18		322.7	-140.0	360.1	337.6	22.47	16.029	
4,275.0	4,206.4	4,249.5	4,222.6	15.2	14.1	143.41		331.2	-144.5	371.3	348.3	22.93	16.192	
4,300.0	4,230.7	4,273.6	4,246.5	15.3	14.2	143.52		333.9	-145.9	375.1	352.0	23.09	16.244	
4,370.0	4,298.6	4,341.1	4,313.6	15.6	14.4	143.88		340.8	-149.6	385.9	362.4	23.55	16.387	
4,400.0	4,327.7	4,370.0	4,342.3	15.7	14.5	144.06		343.6	-151.1	390.7	366.9	23.75	16.447	
4,465.0	4,390.8	4,432.5	4,404.4	16.0	14.8	144.50		349.2	-154.0	401.1	376.9	24.20	16.577	
4,500.0	4,424.7	4,466.0	4,437.8	16.2	14.9	144.77		351.9	-155.4	406.9	382.4	24.44	16.646	
4,560.0	4,482.9	4,523.5	4,495.1	16.5	15.1	145.26		356.2	-157.7	417.0	392.1	24.87	16.769	
4,578.5	4,500.9	4,541.1	4,512.7	16.5	15.2	145.43		357.4	-158.3	420.1	395.1	25.00	16.807	
4,600.0	4,521.8	4,561.7	4,533.2	16.6	15.2	145.66		358.7	-159.0	423.8	398.6	25.15	16.853	
4,655.0	4,575.3	4,614.3	4,585.7	16.9	15.4	146.22		361.9	-160.7	432.6	407.1	25.55	16.935	
4,700.0	4,619.4	4,657.4	4,628.7	17.1	15.6	146.64		364.2	-161.9	439.4	413.6	25.87	16.986	
4,750.0	4,668.4	4,705.3	4,676.5	17.4	15.7	147.08		366.4	-163.1	446.4	420.2	26.22	17.030	
4,800.0	4,717.7	4,753.2	4,724.4	17.6	15.9	147.49		368.2	-164.0	452.9	426.4	26.56	17.057	
4,845.0	4,762.1	4,796.4	4,767.5	17.8	16.0	147.84		369.6	-164.8	458.3	431.5	26.85	17.070	
4,900.0	4,816.5	4,849.2	4,820.3	18.0	16.2	148.23		370.8	-165.4	464.3	437.1	27.20	17.070	
4,940.0	4,856.2	4,887.6	4,858.7	18.2	16.3	148.50		371.5	-165.8	468.2	440.8	27.44	17.063	
5,000.0	4,915.9	4,945.2	4,916.4	18.5	16.4	148.88		372.0	-166.1	473.5	445.7	27.78	17.046	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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
5,035.0	4,950.7	4,978.9	4,950.0	18.6	16.4	149.09		372.1	-166.1	476.2	448.2	27.95	17.033
5,100.0	5,015.6	5,043.7	5,014.9	18.9	16.5	149.43		372.1	-166.1	480.3	452.0	28.28	16.983
5,130.0	5,045.5	5,073.7	5,044.8	19.0	16.5	149.55		372.1	-166.1	481.8	453.3	28.42	16.953
5,200.0	5,115.4	5,143.6	5,114.7	19.2	16.5	149.74		372.1	-166.1	484.1	455.4	28.72	16.858
5,225.0	5,140.4	5,168.6	5,139.7	19.3	16.5	149.78		372.1	-166.1	484.6	455.9	28.78	16.839
5,278.6	5,194.0	5,222.2	5,193.3	19.3	16.6	88.98		372.1	-166.1	485.1	456.2	28.91	16.781
5,300.0	5,215.4	5,243.6	5,214.7	19.3	16.6	88.98		372.1	-166.1	485.1	456.2	28.93	16.769
5,320.0	5,235.4	5,263.6	5,234.7	19.4	16.6	88.98		372.1	-166.1	485.1	456.1	28.95	16.755
5,400.0	5,315.4	5,343.6	5,314.7	19.4	16.6	88.98		372.1	-166.1	485.1	456.0	29.05	16.696
5,415.0	5,330.4	5,358.6	5,329.7	19.4	16.6	88.98		372.1	-166.1	485.1	456.0	29.07	16.684
5,500.0	5,415.4	5,443.6	5,414.7	19.4	16.7	88.98		372.1	-166.1	485.1	455.9	29.18	16.622
5,510.0	5,425.4	5,453.6	5,424.7	19.4	16.7	88.98		372.1	-166.1	485.1	455.9	29.20	16.615
5,600.0	5,515.4	5,543.6	5,514.7	19.5	16.8	88.98		372.1	-166.1	485.1	455.8	29.31	16.549
5,605.0	5,520.4	5,548.6	5,519.7	19.5	16.8	88.98		372.1	-166.1	485.1	455.8	29.32	16.545
5,700.0	5,615.4	5,643.6	5,614.7	19.5	16.8	88.98		372.1	-166.1	485.1	455.6	29.44	16.477
5,795.0	5,710.4	5,738.6	5,709.7	19.6	16.9	88.98		372.1	-166.1	485.1	455.5	29.56	16.408
5,800.0	5,715.4	5,743.6	5,714.7	19.6	16.9	88.98		372.1	-166.1	485.1	455.5	29.57	16.405
5,890.0	5,805.4	5,833.6	5,804.7	19.6	16.9	88.98		372.1	-166.1	485.1	455.4	29.69	16.340
5,900.0	5,815.4	5,843.6	5,814.7	19.6	16.9	88.98		372.1	-166.1	485.1	455.4	29.70	16.333
5,985.0	5,900.4	5,928.6	5,899.7	19.7	17.0	88.98		372.1	-166.1	485.1	455.3	29.81	16.273
6,000.0	5,915.4	5,943.6	5,914.7	19.7	17.0	88.98		372.1	-166.1	485.1	455.2	29.83	16.262
6,080.0	5,995.4	6,023.6	5,994.7	19.7	17.0	88.98		372.1	-166.1	485.1	455.1	29.93	16.206
6,100.0	6,015.4	6,043.6	6,014.7	19.7	17.0	88.98		372.1	-166.1	485.1	455.1	29.96	16.192
6,175.0	6,090.4	6,118.6	6,089.7	19.7	17.1	88.98		372.1	-166.1	485.1	455.0	30.06	16.139
6,200.0	6,115.4	6,143.6	6,114.7	19.8	17.1	88.98		372.1	-166.1	485.1	455.0	30.09	16.122
6,270.0	6,185.4	6,213.6	6,184.7	19.8	17.1	88.98		372.1	-166.1	485.1	454.9	30.18	16.073
6,300.0	6,215.4	6,243.6	6,214.7	19.8	17.2	88.98		372.1	-166.1	485.1	454.9	30.22	16.052
6,365.0	6,280.4	6,308.6	6,279.7	19.8	17.2	88.98		372.1	-166.1	485.1	454.8	30.30	16.007
6,400.0	6,315.4	6,343.6	6,314.7	19.8	17.2	88.98		372.1	-166.1	485.1	454.7	30.35	15.983
6,460.0	6,375.4	6,403.6	6,374.7	19.9	17.3	88.98		372.1	-166.1	485.1	454.6	30.43	15.942
6,500.0	6,415.4	6,443.6	6,414.7	19.9	17.3	88.98		372.1	-166.1	485.1	454.6	30.48	15.914
6,555.0	6,470.4	6,498.6	6,469.7	19.9	17.3	88.98		372.1	-166.1	485.1	454.5	30.55	15.877
6,600.0	6,515.4	6,543.6	6,514.7	19.9	17.3	88.98		372.1	-166.1	485.1	454.5	30.61	15.846
6,650.0	6,565.4	6,593.6	6,564.7	20.0	17.4	88.98		372.1	-166.1	485.1	454.4	30.68	15.812
6,700.0	6,615.4	6,643.6	6,614.7	20.0	17.4	88.98		372.1	-166.1	485.1	454.3	30.74	15.778
6,745.0	6,660.4	6,688.6	6,659.7	20.0	17.4	88.98		372.1	-166.1	485.1	454.3	30.80	15.748
6,800.0	6,715.4	6,743.6	6,714.7	20.0	17.5	88.98		372.1	-166.1	485.1	454.2	30.87	15.711
6,840.0	6,755.4	6,783.6	6,754.7	20.1	17.5	88.98		372.1	-166.1	485.1	454.1	30.93	15.684
6,900.0	6,815.4	6,843.6	6,814.7	20.1	17.5	88.98		372.1	-166.1	485.1	454.1	31.01	15.644
6,935.0	6,850.4	6,878.6	6,849.7	20.1	17.5	88.98		372.1	-166.1	485.1	454.0	31.05	15.621
7,000.0	6,915.4	6,943.6	6,914.7	20.1	17.6	88.98		372.1	-166.1	485.1	453.9	31.14	15.578
7,030.0	6,945.4	6,973.6	6,944.7	20.1	17.6	88.98		372.1	-166.1	485.1	453.9	31.18	15.558
7,100.0	7,015.4	7,043.6	7,014.7	20.2	17.6	88.98		372.1	-166.1	485.1	453.8	31.27	15.512
7,125.0	7,040.4	7,068.6	7,039.7	20.2	17.7	88.98		372.1	-166.1	485.1	453.8	31.30	15.496
7,200.0	7,115.4	7,143.6	7,114.7	20.2	17.7	88.98		372.1	-166.1	485.1	453.7	31.40	15.447
7,220.0	7,135.4	7,163.6	7,134.7	20.2	17.7	88.98		372.1	-166.1	485.1	453.6	31.43	15.434
7,300.0	7,215.4	7,243.6	7,214.7	20.3	17.8	88.98		372.1	-166.1	485.1	453.5	31.54	15.382
7,315.0	7,230.4	7,258.6	7,229.7	20.3	17.8	88.98		372.1	-166.1	485.1	453.5	31.56	15.372
7,400.0	7,315.4	7,343.6	7,314.7	20.3	17.8	88.98		372.1	-166.1	485.1	453.4	31.67	15.317
7,410.0	7,325.4	7,353.6	7,324.7	20.3	17.8	88.98		372.1	-166.1	485.1	453.4	31.68	15.311
7,500.0	7,415.4	7,443.6	7,414.7	20.4	17.9	88.98		372.1	-166.1	485.1	453.3	31.80	15.253

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS						Rule Assigned:						Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
7,505.0	7,420.4	7,448.6	7,419.7	20.4	17.9	88.98	372.1	-166.1	485.1	453.3	31.81	15.250			
7,600.0	7,515.4	7,543.6	7,514.7	20.4	17.9	88.98	372.1	-166.1	485.1	453.1	31.94	15.189			
7,695.0	7,610.4	7,638.6	7,609.7	20.5	18.0	88.98	372.1	-166.1	485.1	453.0	32.06	15.129			
7,700.0	7,615.4	7,643.6	7,614.7	20.5	18.0	88.98	372.1	-166.1	485.1	453.0	32.07	15.126			
7,790.0	7,705.4	7,733.6	7,704.7	20.5	18.1	88.98	372.1	-166.1	485.1	452.9	32.19	15.069			
7,800.0	7,715.4	7,743.6	7,714.7	20.5	18.1	88.98	372.1	-166.1	485.1	452.9	32.20	15.063			
7,885.0	7,800.4	7,828.6	7,799.7	20.6	18.1	88.98	372.1	-166.1	485.1	452.8	32.32	15.010			
7,900.0	7,815.4	7,843.6	7,814.7	20.6	18.1	88.98	372.1	-166.1	485.1	452.7	32.34	15.000			
7,980.0	7,895.4	7,923.6	7,894.7	20.6	18.2	88.98	372.1	-166.1	485.1	452.6	32.44	14.951			
8,000.0	7,915.4	7,943.6	7,914.7	20.6	18.2	88.98	372.1	-166.1	485.1	452.6	32.47	14.938			
8,075.0	7,990.4	8,018.6	7,989.7	20.7	18.2	88.98	372.1	-166.1	485.1	452.5	32.57	14.892			
8,100.0	8,015.4	8,043.6	8,014.7	20.7	18.3	88.98	372.1	-166.1	485.1	452.5	32.61	14.877			
8,170.0	8,085.4	8,113.6	8,084.7	20.7	18.3	88.98	372.1	-166.1	485.1	452.4	32.70	14.834			
8,200.0	8,115.4	8,143.6	8,114.7	20.7	18.3	88.98	372.1	-166.1	485.1	452.3	32.74	14.816			
8,265.0	8,180.4	8,208.6	8,179.7	20.7	18.4	88.98	372.1	-166.1	485.1	452.2	32.83	14.776			
8,300.0	8,215.4	8,243.6	8,214.7	20.8	18.4	88.98	372.1	-166.1	485.1	452.2	32.88	14.755			
8,360.0	8,275.4	8,303.6	8,274.7	20.8	18.4	88.98	372.1	-166.1	485.1	452.1	32.96	14.719			
8,400.0	8,315.4	8,343.6	8,314.7	20.8	18.4	88.98	372.1	-166.1	485.1	452.1	33.01	14.697			
8,447.6	8,363.0	8,391.2	8,362.3	20.8	18.5	88.98	372.1	-166.1	485.1	452.0	33.05	14.677			
8,450.0	8,365.4	8,393.6	8,364.7	20.8	18.5	-91.53	372.1	-166.1	485.1	452.0	33.05	14.677			
8,455.0	8,370.4	8,398.6	8,369.7	20.8	18.5	-91.53	372.1	-166.1	485.1	452.0	33.05	14.675			
8,500.0	8,415.4	8,444.6	8,415.7	20.8	18.5	-91.63	370.6	-166.1	485.1	452.0	33.06	14.674			
8,550.0	8,464.9	8,495.9	8,466.6	20.9	18.6	-91.74	364.6	-166.2	485.1	452.1	33.06	14.673			
8,600.0	8,513.6	8,547.2	8,516.8	20.9	18.6	-91.83	354.0	-166.3	485.2	452.1	33.07	14.671			
8,645.0	8,556.6	8,593.5	8,561.1	20.9	18.7	-91.90	340.7	-166.4	485.2	452.1	33.07	14.670			
8,650.0	8,561.3	8,598.6	8,566.0	20.9	18.7	-91.90	339.0	-166.4	485.2	452.1	33.07	14.669			
8,700.0	8,607.4	8,650.1	8,613.6	20.9	18.7	-91.97	319.6	-166.6	485.2	452.1	33.08	14.666			
8,740.0	8,642.9	8,691.3	8,650.4	21.0	18.8	-92.00	301.1	-166.7	485.2	452.1	33.09	14.662			
8,750.0	8,651.6	8,701.6	8,659.4	21.0	18.8	-92.01	296.0	-166.8	485.2	452.1	33.10	14.661			
8,800.0	8,693.6	8,753.1	8,702.9	21.0	18.9	-92.04	268.4	-167.0	485.2	452.1	33.11	14.653			
8,835.0	8,721.6	8,789.2	8,731.7	21.0	18.9	-92.05	246.7	-167.2	485.2	452.1	33.13	14.645			
8,850.0	8,733.2	8,804.7	8,743.7	21.0	18.9	-92.06	236.9	-167.3	485.2	452.1	33.14	14.642			
8,900.0	8,769.9	8,856.3	8,781.5	21.1	19.0	-92.05	201.9	-167.6	485.2	452.0	33.18	14.626			
8,930.0	8,790.4	8,887.2	8,802.7	21.1	19.0	-92.05	179.3	-167.8	485.2	452.0	33.20	14.614			
8,950.0	8,803.5	8,907.8	8,816.1	21.1	19.1	-92.04	163.7	-168.0	485.2	452.0	33.22	14.605			
9,000.0	8,833.8	8,959.4	8,847.0	21.1	19.1	-92.00	122.5	-168.3	485.2	451.9	33.28	14.579			
9,025.0	8,847.6	8,985.1	8,861.1	21.2	19.1	-91.98	100.9	-168.5	485.2	451.9	33.31	14.564			
9,050.0	8,860.4	9,010.9	8,874.2	21.2	19.2	-91.95	78.7	-168.7	485.2	451.8	33.35	14.548			
9,100.0	8,883.3	9,062.3	8,897.2	21.2	19.2	-91.89	32.7	-169.1	485.2	451.7	33.44	14.510			
9,120.0	8,891.4	9,082.9	8,905.3	21.2	19.2	-91.86	13.8	-169.3	485.2	451.7	33.48	14.492			
9,150.0	8,902.3	9,113.7	8,916.0	21.3	19.3	-91.81	-15.1	-169.5	485.1	451.6	33.54	14.465			
9,200.0	8,917.1	9,165.1	8,930.5	21.3	19.3	-91.72	-64.3	-170.0	485.1	451.5	33.65	14.415			
9,215.0	8,920.7	9,180.4	8,934.0	21.3	19.3	-91.68	-79.3	-170.1	485.1	451.4	33.69	14.399			
9,250.0	8,927.7	9,216.3	8,940.5	21.4	19.3	-91.61	-114.6	-170.4	485.1	451.3	33.78	14.360			
9,300.0	8,934.0	9,267.5	8,945.9	21.4	19.4	-91.49	-165.4	-170.9	485.1	451.1	33.92	14.299			
9,310.0	8,934.8	9,277.7	8,946.4	21.5	19.4	-91.46	-175.6	-171.0	485.1	451.1	33.95	14.286			
9,346.7	8,936.0	9,314.9	8,947.0	21.5	19.4	-91.38	-212.8	-171.3	485.0	451.0	34.06	14.239			
9,400.0	8,936.1	9,368.2	8,947.1	21.6	19.4	-91.38	-266.1	-171.8	485.0	450.8	34.24	14.168			
9,405.0	8,936.1	9,373.2	8,947.1	21.6	19.4	-91.38	-271.1	-171.8	485.0	450.8	34.25	14.161			
9,500.0	8,936.2	9,468.2	8,947.2	21.7	19.5	-91.38	-366.1	-172.7	485.0	450.4	34.61	14.013			
9,595.0	8,936.4	9,563.2	8,947.4	21.9	19.5	-91.38	-461.1	-173.5	485.0	450.0	35.04	13.844			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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
9,600.0	8,936.4	9,568.2	8,947.4	21.9	19.5	-91.38	-466.1	-173.5	485.0	450.0	35.06	13.835	
9,690.0	8,936.6	9,658.2	8,947.5	22.0	19.6	-91.38	-556.1	-174.3	485.0	449.5	35.51	13.659	
9,700.0	8,936.6	9,668.2	8,947.5	22.1	19.6	-91.38	-566.1	-174.4	485.0	449.5	35.56	13.639	
9,785.0	8,936.7	9,753.2	8,947.7	22.2	19.7	-91.38	-651.1	-175.2	485.0	449.0	36.04	13.458	
9,800.0	8,936.7	9,768.2	8,947.7	22.3	19.7	-91.38	-666.1	-175.3	485.0	448.9	36.13	13.426	
9,880.0	8,936.9	9,848.2	8,947.8	22.4	19.8	-91.38	-746.1	-176.0	485.0	448.4	36.62	13.246	
9,900.0	8,936.9	9,868.2	8,947.8	22.5	19.8	-91.38	-766.1	-176.2	485.0	448.3	36.74	13.200	
9,975.0	8,937.0	9,943.2	8,947.9	22.7	19.9	-91.37	-841.1	-176.9	485.0	447.8	37.25	13.023	
10,000.0	8,937.1	9,968.2	8,948.0	22.7	19.9	-91.37	-866.1	-177.1	485.0	447.6	37.42	12.964	
10,070.0	8,937.2	10,038.2	8,948.1	22.9	20.0	-91.37	-936.1	-177.7	485.0	447.1	37.92	12.792	
10,100.0	8,937.2	10,068.2	8,948.1	23.0	20.0	-91.37	-966.1	-178.0	485.0	446.9	38.14	12.719	
10,165.0	8,937.3	10,133.2	8,948.2	23.2	20.1	-91.37	-1,031.1	-178.6	485.0	446.4	38.63	12.555	
10,200.0	8,937.4	10,168.2	8,948.3	23.3	20.2	-91.37	-1,066.1	-178.9	485.0	446.1	38.90	12.468	
10,260.0	8,937.5	10,228.2	8,948.4	23.5	20.3	-91.37	-1,126.1	-179.4	485.0	445.7	39.39	12.315	
10,300.0	8,937.5	10,268.2	8,948.4	23.6	20.3	-91.37	-1,166.1	-179.8	485.0	445.3	39.71	12.213	
10,355.0	8,937.6	10,323.2	8,948.5	23.8	20.4	-91.37	-1,221.1	-180.2	485.0	444.9	40.18	12.072	
10,400.0	8,937.7	10,368.2	8,948.6	23.9	20.5	-91.37	-1,266.1	-180.6	485.0	444.5	40.57	11.956	
10,450.0	8,937.8	10,418.2	8,948.7	24.1	20.7	-91.37	-1,316.1	-181.1	485.0	444.0	41.01	11.827	
10,500.0	8,937.9	10,468.2	8,948.7	24.2	20.8	-91.37	-1,366.1	-181.5	485.0	443.6	41.46	11.699	
10,545.0	8,937.9	10,513.2	8,948.8	24.4	20.9	-91.37	-1,411.1	-181.9	485.0	443.2	41.87	11.584	
10,600.0	8,938.0	10,568.2	8,948.9	24.6	21.0	-91.36	-1,466.1	-182.4	485.0	442.7	42.39	11.444	
10,640.0	8,938.1	10,608.2	8,948.9	24.7	21.2	-91.36	-1,506.1	-182.8	485.0	442.3	42.77	11.342	
10,700.0	8,938.2	10,668.2	8,949.0	25.0	21.3	-91.36	-1,566.1	-183.3	485.0	441.7	43.35	11.190	
10,735.0	8,938.2	10,703.2	8,949.1	25.1	21.5	-91.36	-1,601.1	-183.6	485.0	441.4	43.69	11.102	
10,800.0	8,938.3	10,768.2	8,949.2	25.4	21.7	-91.36	-1,666.1	-184.2	485.0	440.7	44.34	10.939	
10,830.0	8,938.4	10,798.2	8,949.2	25.5	21.8	-91.36	-1,696.1	-184.5	485.0	440.4	44.64	10.865	
10,900.0	8,938.5	10,868.2	8,949.3	25.8	22.0	-91.36	-1,766.1	-185.1	485.0	439.7	45.36	10.693	
10,925.0	8,938.5	10,893.2	8,949.4	25.9	22.1	-91.36	-1,791.1	-185.3	485.0	439.4	45.62	10.632	
11,000.0	8,938.7	10,968.2	8,949.5	26.2	22.5	-91.36	-1,866.0	-186.0	485.0	438.6	46.41	10.451	
11,020.0	8,938.7	10,988.2	8,949.5	26.3	22.5	-91.36	-1,886.0	-186.1	485.0	438.4	46.62	10.403	
11,100.0	8,938.8	11,068.2	8,949.6	26.6	22.9	-91.36	-1,966.0	-186.9	485.0	437.6	47.49	10.214	
11,115.0	8,938.9	11,083.2	8,949.6	26.7	23.0	-91.36	-1,981.0	-187.0	485.0	437.4	47.65	10.179	
11,200.0	8,939.0	11,168.2	8,949.8	27.1	23.4	-91.35	-2,066.0	-187.7	485.0	436.5	48.58	9.983	
11,210.0	8,939.0	11,178.2	8,949.8	27.2	23.4	-91.35	-2,076.0	-187.8	485.0	436.3	48.70	9.961	
11,300.0	8,939.2	11,268.2	8,949.9	27.6	23.9	-91.35	-2,166.0	-188.6	485.0	435.3	49.71	9.758	
11,305.0	8,939.2	11,273.2	8,949.9	27.6	23.9	-91.35	-2,171.0	-188.7	485.0	435.3	49.76	9.747	
11,400.0	8,939.3	11,368.2	8,950.1	28.1	24.4	-91.35	-2,266.0	-189.5	485.0	434.2	50.85	9.539	
11,495.0	8,939.5	11,463.2	8,950.2	28.5	24.9	-91.35	-2,361.0	-190.4	485.0	433.1	51.95	9.336	
11,500.0	8,939.5	11,468.2	8,950.2	28.6	24.9	-91.35	-2,366.0	-190.4	485.0	433.0	52.01	9.326	
11,590.0	8,939.6	11,558.2	8,950.3	29.0	25.4	-91.35	-2,456.0	-191.2	485.0	432.0	53.07	9.139	
11,600.0	8,939.6	11,568.2	8,950.4	29.1	25.5	-91.35	-2,466.0	-191.3	485.0	431.8	53.19	9.119	
11,685.0	8,939.8	11,653.2	8,950.5	29.5	26.0	-91.35	-2,551.0	-192.0	485.0	430.8	54.21	8.948	
11,700.0	8,939.8	11,668.2	8,950.5	29.6	26.1	-91.35	-2,566.0	-192.2	485.0	430.7	54.39	8.918	
11,780.0	8,939.9	11,748.2	8,950.6	30.0	26.5	-91.35	-2,646.0	-192.9	485.0	429.7	55.36	8.762	
11,800.0	8,940.0	11,768.2	8,950.6	30.1	26.7	-91.35	-2,666.0	-193.1	485.0	429.4	55.60	8.724	
11,875.0	8,940.1	11,843.2	8,950.8	30.5	27.1	-91.34	-2,741.0	-193.7	485.0	428.5	56.52	8.581	
11,900.0	8,940.1	11,868.2	8,950.8	30.7	27.3	-91.34	-2,766.0	-194.0	485.0	428.2	56.83	8.535	
11,970.0	8,940.2	11,938.2	8,950.9	31.1	27.7	-91.34	-2,836.0	-194.6	485.0	427.3	57.70	8.406	
12,000.0	8,940.3	11,968.2	8,950.9	31.2	27.9	-91.34	-2,866.0	-194.8	485.0	427.0	58.07	8.352	
12,065.0	8,940.4	12,033.2	8,951.0	31.6	28.3	-91.34	-2,931.0	-195.4	485.0	426.2	58.89	8.237	
12,100.0	8,940.4	12,068.2	8,951.1	31.8	28.5	-91.34	-2,966.0	-195.7	485.0	425.7	59.33	8.176	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
12,160.0	8,940.5	12,128.2	8,951.2	32.1	28.9	-91.34	-3,026.0	-196.3	485.0	425.0	60.09	8.072	
12,200.0	8,940.6	12,168.2	8,951.2	32.4	29.1	-91.34	-3,066.0	-196.6	485.0	424.4	60.59	8.005	
12,255.0	8,940.7	12,223.2	8,951.3	32.7	29.5	-91.34	-3,121.0	-197.1	485.0	423.7	61.30	7.913	
12,300.0	8,940.8	12,268.2	8,951.4	33.0	29.8	-91.34	-3,166.0	-197.5	485.0	423.2	61.87	7.839	
12,350.0	8,940.9	12,318.2	8,951.5	33.2	30.1	-91.34	-3,216.0	-198.0	485.0	422.5	62.52	7.758	
12,400.0	8,940.9	12,368.2	8,951.5	33.5	30.4	-91.34	-3,266.0	-198.4	485.0	421.9	63.16	7.679	
12,445.0	8,941.0	12,413.2	8,951.6	33.8	30.7	-91.33	-3,311.0	-198.8	485.0	421.3	63.75	7.609	
12,500.0	8,941.1	12,468.2	8,951.7	34.1	31.1	-91.33	-3,366.0	-199.3	485.0	420.6	64.47	7.524	
12,540.0	8,941.2	12,508.2	8,951.7	34.4	31.4	-91.33	-3,406.0	-199.6	485.0	420.0	64.99	7.463	
12,600.0	8,941.3	12,568.2	8,951.8	34.7	31.8	-91.33	-3,466.0	-200.2	485.0	419.3	65.78	7.374	
12,635.0	8,941.3	12,603.2	8,951.9	35.0	32.0	-91.33	-3,501.0	-200.5	485.0	418.8	66.24	7.323	
12,700.0	8,941.4	12,668.2	8,952.0	35.4	32.4	-91.33	-3,566.0	-201.1	485.0	417.9	67.09	7.229	
12,730.0	8,941.5	12,698.2	8,952.0	35.5	32.6	-91.33	-3,596.0	-201.3	485.0	417.5	67.49	7.187	
12,800.0	8,941.6	12,768.2	8,952.1	36.0	33.1	-91.33	-3,666.0	-201.9	485.0	416.6	68.42	7.089	
12,825.0	8,941.6	12,793.2	8,952.2	36.1	33.3	-91.33	-3,691.0	-202.2	485.0	416.3	68.76	7.054	
12,900.0	8,941.7	12,868.2	8,952.3	36.6	33.8	-91.33	-3,766.0	-202.8	485.0	415.3	69.76	6.953	
12,920.0	8,941.8	12,888.2	8,952.3	36.7	33.9	-91.33	-3,786.0	-203.0	485.0	415.0	70.03	6.926	
13,000.0	8,941.9	12,968.2	8,952.4	37.2	34.5	-91.33	-3,866.0	-203.7	485.0	413.9	71.10	6.822	
13,015.0	8,941.9	12,983.2	8,952.4	37.3	34.6	-91.33	-3,881.0	-203.9	485.0	413.7	71.30	6.802	
13,100.0	8,942.1	13,068.2	8,952.6	37.9	35.2	-91.32	-3,966.0	-204.6	485.0	412.6	72.45	6.694	
13,110.0	8,942.1	13,078.2	8,952.6	37.9	35.2	-91.32	-3,976.0	-204.7	485.0	412.4	72.59	6.682	
13,200.0	8,942.2	13,168.2	8,952.7	38.5	35.9	-91.32	-4,066.0	-205.5	485.0	411.2	73.81	6.571	
13,205.0	8,942.2	13,173.2	8,952.7	38.5	35.9	-91.32	-4,071.0	-205.5	485.0	411.2	73.88	6.565	
13,300.0	8,942.4	13,268.2	8,952.9	39.1	36.6	-91.32	-4,166.0	-206.4	485.0	409.9	75.17	6.452	
13,395.0	8,942.5	13,363.2	8,953.0	39.8	37.2	-91.32	-4,261.0	-207.2	485.0	408.6	76.48	6.342	
13,400.0	8,942.5	13,368.2	8,953.0	39.8	37.2	-91.32	-4,266.0	-207.3	485.0	408.5	76.55	6.337	
13,490.0	8,942.7	13,458.2	8,953.1	40.4	37.9	-91.32	-4,355.9	-208.1	485.0	407.3	77.78	6.236	
13,500.0	8,942.7	13,468.2	8,953.2	40.5	38.0	-91.32	-4,365.9	-208.2	485.0	407.1	77.92	6.225	
13,585.0	8,942.8	13,553.2	8,953.3	41.0	38.5	-91.32	-4,450.9	-208.9	485.0	405.9	79.10	6.132	
13,600.0	8,942.9	13,568.2	8,953.3	41.1	38.7	-91.32	-4,465.9	-209.0	485.0	405.7	79.30	6.116	
13,680.0	8,943.0	13,648.2	8,953.4	41.6	39.2	-91.31	-4,545.9	-209.8	485.0	404.6	80.41	6.032	
13,700.0	8,943.0	13,668.2	8,953.5	41.8	39.4	-91.31	-4,565.9	-209.9	485.0	404.3	80.69	6.011	
13,775.0	8,943.2	13,743.2	8,953.6	42.3	39.9	-91.31	-4,640.9	-210.6	485.0	403.3	81.73	5.934	
13,800.0	8,943.2	13,768.2	8,953.6	42.4	40.1	-91.31	-4,665.9	-210.8	485.0	403.0	82.08	5.909	
13,870.0	8,943.3	13,838.2	8,953.7	42.9	40.6	-91.31	-4,735.9	-211.4	485.0	402.0	83.06	5.840	
13,900.0	8,943.4	13,868.2	8,953.8	43.1	40.8	-91.31	-4,765.9	-211.7	485.0	401.6	83.48	5.810	
13,965.0	8,943.5	13,933.2	8,953.9	43.5	41.2	-91.31	-4,830.9	-212.3	485.0	400.6	84.39	5.748	
14,000.0	8,943.5	13,968.2	8,953.9	43.8	41.5	-91.31	-4,865.9	-212.6	485.0	400.2	84.88	5.714	
14,060.0	8,943.6	14,028.2	8,954.0	44.2	41.9	-91.31	-4,925.9	-213.1	485.0	399.3	85.72	5.658	
14,100.0	8,943.7	14,068.2	8,954.1	44.5	42.2	-91.31	-4,965.9	-213.5	485.0	398.7	86.28	5.621	
14,155.0	8,943.8	14,123.2	8,954.1	44.8	42.6	-91.31	-5,020.9	-214.0	485.0	398.0	87.06	5.571	
14,200.0	8,943.8	14,168.2	8,954.2	45.1	42.9	-91.31	-5,065.9	-214.4	485.0	397.3	87.69	5.531	
14,250.0	8,943.9	14,218.2	8,954.3	45.5	43.3	-91.31	-5,115.9	-214.8	485.0	396.6	88.40	5.487	
14,300.0	8,944.0	14,268.2	8,954.3	45.8	43.6	-91.30	-5,165.9	-215.3	485.0	395.9	89.11	5.443	
14,345.0	8,944.1	14,313.2	8,954.4	46.1	44.0	-91.30	-5,210.9	-215.7	485.0	395.3	89.74	5.405	
14,400.0	8,944.2	14,368.2	8,954.5	46.5	44.4	-91.30	-5,265.9	-216.1	485.0	394.5	90.52	5.358	
14,440.0	8,944.2	14,408.2	8,954.6	46.8	44.7	-91.30	-5,305.9	-216.5	485.0	393.9	91.09	5.325	
14,500.0	8,944.3	14,468.2	8,954.6	47.2	45.1	-91.30	-5,365.9	-217.0	485.0	393.1	91.94	5.275	
14,535.0	8,944.4	14,503.2	8,954.7	47.4	45.3	-91.30	-5,400.9	-217.3	485.0	392.6	92.44	5.245	
14,600.0	8,944.5	14,568.2	8,954.8	47.9	45.8	-91.30	-5,465.9	-217.9	485.0	391.7	93.37	5.195	
14,630.0	8,944.5	14,598.2	8,954.8	48.1	46.0	-91.30	-5,495.9	-218.2	485.0	391.2	93.80	5.171	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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	
14,700.0	8,944.6	14,668.2	8,954.9	48.6	46.5	-91.30	-5,565.9	-218.8	485.0	390.2	94.80	5.117		
14,725.0	8,944.7	14,693.2	8,955.0	48.7	46.7	-91.30	-5,590.9	-219.0	485.0	389.9	95.15	5.097		
14,800.0	8,944.8	14,768.2	8,955.1	49.3	47.3	-91.30	-5,665.9	-219.7	485.0	388.8	96.23	5.041		
14,820.0	8,944.8	14,788.2	8,955.1	49.4	47.4	-91.30	-5,685.9	-219.9	485.0	388.5	96.51	5.026		
14,900.0	8,945.0	14,868.2	8,955.2	50.0	48.0	-91.30	-5,765.9	-220.6	485.0	387.4	97.66	4.967		
14,915.0	8,945.0	14,883.2	8,955.3	50.1	48.1	-91.30	-5,780.9	-220.7	485.0	387.2	97.87	4.956		
15,000.0	8,945.1	14,968.2	8,955.4	50.7	48.7	-91.29	-5,865.9	-221.5	485.0	385.9	99.09	4.895		
15,010.0	8,945.1	14,978.2	8,955.4	50.7	48.8	-91.29	-5,875.9	-221.6	485.0	385.8	99.24	4.888		
15,100.0	8,945.3	15,068.2	8,955.5	51.4	49.4	-91.29	-5,965.9	-222.4	485.0	384.5	100.53	4.825		
15,105.0	8,945.3	15,073.2	8,955.5	51.4	49.5	-91.29	-5,970.9	-222.4	485.0	384.4	100.61	4.821		
15,200.0	8,945.5	15,168.2	8,955.7	52.1	50.2	-91.29	-6,065.9	-223.2	485.0	383.1	101.97	4.756		
15,295.0	8,945.6	15,263.2	8,955.8	52.7	50.9	-91.29	-6,160.9	-224.1	485.0	381.7	103.35	4.693		
15,300.0	8,945.6	15,268.2	8,955.8	52.8	50.9	-91.29	-6,165.9	-224.1	485.0	381.6	103.42	4.690		
15,390.0	8,945.8	15,358.2	8,956.0	53.4	51.6	-91.29	-6,255.9	-224.9	485.0	380.3	104.72	4.632		
15,400.0	8,945.8	15,368.2	8,956.0	53.5	51.6	-91.29	-6,265.9	-225.0	485.0	380.2	104.86	4.625		
15,485.0	8,945.9	15,453.2	8,956.1	54.1	52.3	-91.29	-6,350.9	-225.8	485.0	378.9	106.10	4.572		
15,500.0	8,945.9	15,468.2	8,956.1	54.2	52.4	-91.29	-6,365.9	-225.9	485.0	378.7	106.31	4.562		
15,580.0	8,946.1	15,548.2	8,956.2	54.7	53.0	-91.28	-6,445.9	-226.6	485.0	377.6	107.47	4.513		
15,600.0	8,946.1	15,568.2	8,956.3	54.9	53.1	-91.28	-6,465.9	-226.8	485.0	377.3	107.76	4.501		
15,675.0	8,946.2	15,643.2	8,956.4	55.4	53.7	-91.28	-6,540.9	-227.5	485.0	376.2	108.85	4.456		
15,700.0	8,946.3	15,668.2	8,956.4	55.6	53.8	-91.28	-6,565.9	-227.7	485.0	375.8	109.22	4.441		
15,770.0	8,946.4	15,738.2	8,956.5	56.1	54.4	-91.28	-6,635.9	-228.3	485.0	374.8	110.23	4.400		
15,800.0	8,946.4	15,768.2	8,956.6	56.3	54.6	-91.28	-6,665.9	-228.6	485.0	374.4	110.67	4.383		
15,865.0	8,946.5	15,833.2	8,956.7	56.8	55.1	-91.28	-6,730.9	-229.2	485.0	373.4	111.62	4.345		
15,900.0	8,946.6	15,868.2	8,956.7	57.0	55.3	-91.28	-6,765.9	-229.5	485.0	372.9	112.13	4.326		
15,960.0	8,946.7	15,928.2	8,956.8	57.4	55.8	-91.28	-6,825.8	-230.0	485.0	372.0	113.00	4.292		
16,000.0	8,946.7	15,968.2	8,956.9	57.7	56.1	-91.28	-6,865.8	-230.3	485.0	371.4	113.59	4.270		
16,055.0	8,946.8	16,023.2	8,956.9	58.1	56.5	-91.28	-6,920.8	-230.8	485.0	370.6	114.39	4.240		
16,100.0	8,946.9	16,068.2	8,957.0	58.5	56.8	-91.28	-6,965.8	-231.2	485.0	370.0	115.05	4.216		
16,150.0	8,947.0	16,118.2	8,957.1	58.8	57.2	-91.28	-7,015.8	-231.7	485.0	369.3	115.78	4.189		
16,200.0	8,947.1	16,168.2	8,957.2	59.2	57.5	-91.27	-7,065.8	-232.1	485.0	368.5	116.51	4.163		
16,245.0	8,947.1	16,213.2	8,957.2	59.5	57.9	-91.27	-7,110.8	-232.5	485.0	367.9	117.17	4.140		
16,300.0	8,947.2	16,268.2	8,957.3	59.9	58.3	-91.27	-7,165.8	-233.0	485.0	367.1	117.97	4.111		
16,340.0	8,947.3	16,308.2	8,957.4	60.2	58.6	-91.27	-7,205.8	-233.4	485.0	366.5	118.56	4.091		
16,400.0	8,947.4	16,368.2	8,957.5	60.6	59.0	-91.27	-7,265.8	-233.9	485.0	365.6	119.44	4.061		
16,435.0	8,947.5	16,403.2	8,957.5	60.9	59.3	-91.27	-7,300.8	-234.2	485.0	365.1	119.95	4.044		
16,500.0	8,947.6	16,468.2	8,957.6	61.3	59.8	-91.27	-7,365.8	-234.8	485.0	364.1	120.90	4.012		
16,530.0	8,947.6	16,498.2	8,957.6	61.5	60.0	-91.27	-7,395.8	-235.1	485.0	363.7	121.34	3.997		
16,600.0	8,947.7	16,568.2	8,957.8	62.1	60.5	-91.27	-7,465.8	-235.7	485.0	362.7	122.37	3.964		
16,625.0	8,947.8	16,593.2	8,957.8	62.2	60.7	-91.27	-7,490.8	-235.9	485.0	362.3	122.74	3.952		
16,700.0	8,947.9	16,668.2	8,957.9	62.8	61.2	-91.27	-7,565.8	-236.6	485.0	361.2	123.84	3.917		
16,720.0	8,947.9	16,688.2	8,957.9	62.9	61.4	-91.27	-7,585.8	-236.7	485.0	360.9	124.14	3.907		
16,800.0	8,948.0	16,768.2	8,958.0	63.5	62.0	-91.26	-7,665.8	-237.5	485.0	359.7	125.31	3.871		
16,815.0	8,948.1	16,783.2	8,958.1	63.6	62.1	-91.26	-7,680.8	-237.6	485.0	359.5	125.53	3.864		
16,900.0	8,948.2	16,868.2	8,958.2	64.2	62.7	-91.26	-7,765.8	-238.3	485.0	358.2	126.79	3.826		
16,910.0	8,948.2	16,878.2	8,958.2	64.3	62.8	-91.26	-7,775.8	-238.4	485.0	358.1	126.93	3.821		
17,000.0	8,948.4	16,968.2	8,958.3	64.9	63.5	-91.26	-7,865.8	-239.2	485.0	356.8	128.26	3.782		
17,005.0	8,948.4	16,973.2	8,958.4	65.0	63.5	-91.26	-7,870.8	-239.3	485.0	356.7	128.33	3.779		
17,100.0	8,948.5	17,068.2	8,958.5	65.7	64.2	-91.26	-7,965.8	-240.1	485.0	355.3	129.73	3.739		
17,195.0	8,948.7	17,163.2	8,958.6	66.4	64.9	-91.26	-8,060.8	-241.0	485.0	353.9	131.14	3.699		
17,200.0	8,948.7	17,168.2	8,958.6	66.4	65.0	-91.26	-8,065.8	-241.0	485.0	353.8	131.21	3.697		

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-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	
17,290.0	8,948.8	17,258.2	8,958.8	67.1	65.6	-91.26	-8,155.8	-241.8	485.0	352.5	132.54	3.659
17,300.0	8,948.8	17,268.2	8,958.8	67.1	65.7	-91.26	-8,165.8	-241.9	485.0	352.3	132.69	3.655
17,385.0	8,949.0	17,353.2	8,958.9	67.8	66.3	-91.26	-8,250.8	-242.6	485.0	351.1	133.94	3.621
17,400.0	8,949.0	17,368.2	8,958.9	67.9	66.5	-91.26	-8,265.8	-242.8	485.0	350.9	134.17	3.615
17,480.0	8,949.1	17,448.2	8,959.1	68.4	67.1	-91.25	-8,345.8	-243.5	485.0	349.7	135.35	3.583
17,500.0	8,949.2	17,468.2	8,959.1	68.6	67.2	-91.25	-8,365.8	-243.7	485.0	349.4	135.65	3.576
17,575.0	8,949.3	17,543.2	8,959.2	69.1	67.8	-91.25	-8,440.8	-244.3	485.0	348.3	136.76	3.547
17,600.0	8,949.3	17,568.2	8,959.2	69.3	68.0	-91.25	-8,465.8	-244.6	485.0	347.9	137.13	3.537
17,670.0	8,949.4	17,638.2	8,959.3	69.8	68.5	-91.25	-8,535.8	-245.2	485.0	346.9	138.16	3.511
17,700.0	8,949.5	17,668.2	8,959.4	70.1	68.7	-91.25	-8,565.8	-245.4	485.0	346.4	138.61	3.499
17,765.0	8,949.6	17,733.2	8,959.5	70.5	69.2	-91.25	-8,630.8	-246.0	485.0	345.5	139.57	3.475
17,800.0	8,949.7	17,768.2	8,959.5	70.8	69.4	-91.25	-8,665.8	-246.3	485.0	344.9	140.09	3.462
17,860.0	8,949.8	17,828.2	8,959.6	71.2	69.9	-91.25	-8,725.8	-246.9	485.0	344.0	140.98	3.440
17,900.0	8,949.8	17,868.2	8,959.7	71.5	70.2	-91.25	-8,765.8	-247.2	485.0	343.4	141.58	3.426
17,955.0	8,949.9	17,923.2	8,959.8	71.9	70.6	-91.25	-8,820.8	-247.7	485.0	342.6	142.39	3.406
18,000.0	8,950.0	17,968.2	8,959.8	72.3	70.9	-91.25	-8,865.8	-248.1	485.0	342.0	143.06	3.390
18,050.0	8,950.1	18,018.2	8,959.9	72.6	71.3	-91.24	-8,915.8	-248.5	485.0	341.2	143.80	3.373
18,100.0	8,950.1	18,068.2	8,960.0	73.0	71.7	-91.24	-8,965.8	-249.0	485.0	340.5	144.55	3.356
18,145.0	8,950.2	18,113.2	8,960.0	73.3	72.0	-91.24	-9,010.8	-249.4	485.0	339.8	145.21	3.340
18,200.0	8,950.3	18,168.2	8,960.1	73.7	72.4	-91.24	-9,065.8	-249.9	485.0	339.0	146.03	3.321
18,240.0	8,950.4	18,208.2	8,960.2	74.0	72.7	-91.24	-9,105.8	-250.2	485.0	338.4	146.63	3.308
18,300.0	8,950.5	18,268.2	8,960.3	74.5	73.2	-91.24	-9,165.8	-250.8	485.0	337.5	147.52	3.288
18,335.0	8,950.5	18,303.2	8,960.3	74.7	73.5	-91.24	-9,200.8	-251.1	485.0	337.0	148.04	3.276
18,400.0	8,950.6	18,368.2	8,960.4	75.2	73.9	-91.24	-9,265.7	-251.7	485.0	336.0	149.01	3.255
18,430.0	8,950.7	18,398.2	8,960.5	75.4	74.2	-91.24	-9,295.7	-251.9	485.0	335.6	149.45	3.245
18,500.0	8,950.8	18,468.2	8,960.6	75.9	74.7	-91.24	-9,365.7	-252.5	485.0	334.5	150.50	3.223
18,525.0	8,950.8	18,493.2	8,960.6	76.1	74.9	-91.24	-9,390.7	-252.8	485.0	334.2	150.87	3.215
18,600.0	8,950.9	18,568.2	8,960.7	76.7	75.4	-91.24	-9,465.7	-253.4	485.0	333.0	151.99	3.191
18,620.0	8,951.0	18,588.2	8,960.7	76.8	75.6	-91.24	-9,485.7	-253.6	485.0	332.7	152.28	3.185
18,700.0	8,951.1	18,668.2	8,960.9	77.4	76.2	-91.23	-9,565.7	-254.3	485.0	331.5	153.48	3.160
18,715.0	8,951.1	18,683.2	8,960.9	77.5	76.3	-91.23	-9,580.7	-254.4	485.0	331.3	153.70	3.156
18,800.0	8,951.3	18,768.2	8,961.0	78.1	76.9	-91.23	-9,665.7	-255.2	485.0	330.1	154.97	3.130
18,810.0	8,951.3	18,778.2	8,961.0	78.2	77.0	-91.23	-9,675.7	-255.3	485.0	329.9	155.12	3.127
18,900.0	8,951.4	18,868.2	8,961.2	78.9	77.7	-91.23	-9,765.7	-256.1	485.0	328.6	156.46	3.100
18,905.0	8,951.4	18,873.2	8,961.2	78.9	77.7	-91.23	-9,770.7	-256.1	485.0	328.5	156.53	3.099
19,000.0	8,951.6	18,968.2	8,961.3	79.6	78.4	-91.23	-9,865.7	-257.0	485.0	327.1	157.95	3.071
19,095.0	8,951.7	19,063.2	8,961.4	80.3	79.2	-91.23	-9,960.7	-257.8	485.0	325.7	159.37	3.043
19,100.0	8,951.8	19,068.2	8,961.5	80.4	79.2	-91.23	-9,965.7	-257.9	485.0	325.6	159.44	3.042
19,190.0	8,951.9	19,158.2	8,961.6	81.0	79.9	-91.23	-10,055.7	-258.7	485.0	324.2	160.79	3.017
19,200.0	8,951.9	19,168.2	8,961.6	81.1	79.9	-91.23	-10,065.7	-258.8	485.0	324.1	160.94	3.014
19,285.0	8,952.1	19,253.2	8,961.7	81.7	80.6	-91.23	-10,150.7	-259.5	485.0	322.8	162.21	2.990
19,300.0	8,952.1	19,268.2	8,961.7	81.8	80.7	-91.22	-10,165.7	-259.6	485.0	322.6	162.43	2.986
19,380.0	8,952.2	19,348.2	8,961.9	82.4	81.3	-91.22	-10,245.7	-260.4	485.0	321.4	163.63	2.964
19,400.0	8,952.2	19,368.2	8,961.9	82.6	81.4	-91.22	-10,265.7	-260.5	485.0	321.1	163.93	2.959
19,475.0	8,952.4	19,443.2	8,962.0	83.1	82.0	-91.22	-10,340.7	-261.2	485.0	320.0	165.05	2.939
19,500.0	8,952.4	19,468.2	8,962.0	83.3	82.2	-91.22	-10,365.7	-261.4	485.0	319.6	165.42	2.932
19,570.0	8,952.5	19,538.2	8,962.1	83.8	82.7	-91.22	-10,435.7	-262.0	485.0	318.5	166.47	2.914
19,600.0	8,952.6	19,568.2	8,962.2	84.1	83.0	-91.22	-10,465.7	-262.3	485.0	318.1	166.92	2.906
19,665.0	8,952.7	19,633.2	8,962.3	84.6	83.4	-91.22	-10,530.7	-262.9	485.0	317.1	167.89	2.889
19,700.0	8,952.7	19,668.2	8,962.3	84.8	83.7	-91.22	-10,565.7	-263.2	485.0	316.6	168.42	2.880
19,760.0	8,952.8	19,728.2	8,962.4	85.3	84.2	-91.22	-10,625.7	-263.7	485.0	315.7	169.32	2.865

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
19,800.0	8,952.9	19,768.2	8,962.5	85.6	84.5	-91.22	-10,665.7	-264.1	485.0	315.1	169.91	2.854	
19,855.0	8,953.0	19,823.2	8,962.6	86.0	84.9	-91.22	-10,720.7	-264.6	485.0	314.3	170.74	2.841	
19,900.0	8,953.0	19,868.2	8,962.6	86.3	85.2	-91.22	-10,765.7	-265.0	485.0	313.6	171.41	2.830	
19,950.0	8,953.1	19,918.2	8,962.7	86.7	85.6	-91.21	-10,815.7	-265.4	485.0	312.9	172.16	2.817	
20,000.0	8,953.2	19,968.2	8,962.8	87.0	86.0	-91.21	-10,865.7	-265.9	485.0	312.1	172.91	2.805	
20,045.0	8,953.3	20,013.2	8,962.8	87.4	86.3	-91.21	-10,910.7	-266.3	485.0	311.4	173.59	2.794	
20,100.0	8,953.4	20,068.2	8,962.9	87.8	86.7	-91.21	-10,965.7	-266.7	485.0	310.6	174.41	2.781	
20,140.0	8,953.4	20,108.2	8,963.0	88.1	87.0	-91.21	-11,005.7	-267.1	485.0	310.0	175.01	2.771	
20,200.0	8,953.5	20,168.2	8,963.1	88.5	87.5	-91.21	-11,065.7	-267.6	485.0	309.1	175.91	2.757	
20,235.0	8,953.6	20,203.2	8,963.1	88.8	87.7	-91.21	-11,100.7	-267.9	485.0	308.6	176.43	2.749	
20,300.0	8,953.7	20,268.2	8,963.2	89.3	88.2	-91.21	-11,165.7	-268.5	485.0	307.6	177.41	2.734	
20,330.0	8,953.7	20,298.2	8,963.3	89.5	88.5	-91.21	-11,195.7	-268.8	485.0	307.2	177.86	2.727	
20,400.0	8,953.9	20,368.2	8,963.4	90.0	89.0	-91.21	-11,265.7	-269.4	485.0	306.1	178.91	2.711	
20,425.0	8,953.9	20,393.2	8,963.4	90.2	89.2	-91.21	-11,290.7	-269.6	485.0	305.7	179.29	2.705	
20,500.0	8,954.0	20,468.2	8,963.5	90.8	89.7	-91.21	-11,365.7	-270.3	485.0	304.6	180.41	2.688	
20,520.0	8,954.1	20,488.2	8,963.6	90.9	89.9	-91.21	-11,385.7	-270.5	485.0	304.3	180.71	2.684	
20,600.0	8,954.2	20,568.2	8,963.7	91.5	90.5	-91.20	-11,465.7	-271.2	485.0	303.1	181.91	2.666	
20,615.0	8,954.2	20,583.2	8,963.7	91.6	90.6	-91.20	-11,480.7	-271.3	485.0	302.9	182.14	2.663	
20,700.0	8,954.3	20,668.2	8,963.8	92.3	91.2	-91.20	-11,565.7	-272.1	485.0	301.6	183.41	2.644	
20,710.0	8,954.4	20,678.2	8,963.8	92.3	91.3	-91.20	-11,575.7	-272.2	485.0	301.5	183.56	2.642	
20,800.0	8,954.5	20,768.2	8,964.0	93.0	92.0	-91.20	-11,665.7	-273.0	485.0	300.1	184.92	2.623	
20,805.0	8,954.5	20,773.2	8,964.0	93.0	92.0	-91.20	-11,670.7	-273.0	485.0	300.0	184.99	2.622	
20,900.0	8,954.7	20,868.2	8,964.1	93.7	92.8	-91.20	-11,765.6	-273.8	485.0	298.6	186.42	2.602	
20,995.0	8,954.8	20,963.2	8,964.3	94.5	93.5	-91.20	-11,860.6	-274.7	485.0	297.2	187.85	2.582	
21,000.0	8,954.8	20,968.2	8,964.3	94.5	93.5	-91.20	-11,865.6	-274.7	485.0	297.1	187.92	2.581	
21,090.0	8,955.0	21,058.2	8,964.4	95.2	94.2	-91.20	-11,955.6	-275.5	485.0	295.7	189.28	2.562	
21,100.0	8,955.0	21,068.2	8,964.4	95.2	94.3	-91.20	-11,965.6	-275.6	485.0	295.6	189.43	2.560	
21,185.0	8,955.1	21,153.2	8,964.5	95.9	94.9	-91.19	-12,050.6	-276.4	485.0	294.3	190.70	2.543	
21,200.0	8,955.1	21,168.2	8,964.6	96.0	95.0	-91.19	-12,065.6	-276.5	485.0	294.1	190.93	2.540	
21,280.0	8,955.3	21,248.2	8,964.7	96.6	95.6	-91.19	-12,145.6	-277.2	485.0	292.9	192.13	2.524	
21,300.0	8,955.3	21,268.2	8,964.7	96.7	95.8	-91.19	-12,165.6	-277.4	485.0	292.6	192.43	2.520	
21,375.0	8,955.4	21,343.2	8,964.8	97.3	96.3	-91.19	-12,240.6	-278.1	485.0	291.5	193.56	2.506	
21,400.0	8,955.5	21,368.2	8,964.9	97.5	96.5	-91.19	-12,265.6	-278.3	485.0	291.1	193.94	2.501	
21,470.0	8,955.6	21,438.2	8,965.0	98.0	97.1	-91.19	-12,335.6	-278.9	485.0	290.0	194.99	2.487	
21,500.0	8,955.6	21,468.2	8,965.0	98.2	97.3	-91.19	-12,365.6	-279.2	485.0	289.6	195.44	2.482	
21,565.0	8,955.7	21,533.2	8,965.1	98.7	97.8	-91.19	-12,430.6	-279.7	485.0	288.6	196.42	2.469	
21,600.0	8,955.8	21,568.2	8,965.2	99.0	98.0	-91.19	-12,465.6	-280.1	485.0	288.1	196.95	2.463	
21,660.0	8,955.9	21,628.2	8,965.2	99.4	98.5	-91.19	-12,525.6	-280.6	485.0	287.2	197.85	2.451	
21,700.0	8,956.0	21,668.2	8,965.3	99.7	98.8	-91.19	-12,565.6	-280.9	485.0	286.6	198.45	2.444	
21,755.0	8,956.0	21,723.2	8,965.4	100.1	99.2	-91.19	-12,620.6	-281.4	485.0	285.7	199.28	2.434	
21,800.0	8,956.1	21,768.2	8,965.4	100.5	99.6	-91.18	-12,665.6	-281.8	485.0	285.1	199.96	2.426	
21,850.0	8,956.2	21,818.2	8,965.5	100.9	99.9	-91.18	-12,715.6	-282.3	485.0	284.3	200.71	2.416	
21,900.0	8,956.3	21,868.2	8,965.6	101.2	100.3	-91.18	-12,765.6	-282.7	485.0	283.5	201.47	2.407	
21,945.0	8,956.4	21,913.2	8,965.7	101.6	100.7	-91.18	-12,810.6	-283.1	485.0	282.9	202.15	2.399	
22,000.0	8,956.4	21,968.2	8,965.7	102.0	101.1	-91.18	-12,865.6	-283.6	485.0	282.0	202.97	2.390	
22,040.0	8,956.5	22,008.2	8,965.8	102.3	101.4	-91.18	-12,905.6	-284.0	485.0	281.4	203.58	2.382	
22,100.0	8,956.6	22,068.2	8,965.9	102.7	101.8	-91.18	-12,965.6	-284.5	485.0	280.5	204.48	2.372	
22,135.0	8,956.7	22,103.2	8,965.9	103.0	102.1	-91.18	-13,000.6	-284.8	485.0	280.0	205.01	2.366	
22,200.0	8,956.8	22,168.2	8,966.0	103.5	102.6	-91.18	-13,065.6	-285.4	485.0	279.0	205.99	2.355	
22,230.0	8,956.8	22,198.2	8,966.1	103.7	102.8	-91.18	-13,095.6	-285.6	485.0	278.6	206.44	2.349	
22,300.0	8,956.9	22,268.2	8,966.2	104.2	103.3	-91.18	-13,165.6	-286.3	485.0	277.5	207.50	2.337	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8403-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
22,325.0	8,957.0	22,293.2	8,966.2	104.4	103.5	-91.18	-13,190.6	-286.5	485.0	277.1	207.87	2.333		
22,400.0	8,957.1	22,368.2	8,966.3	105.0	104.1	-91.18	-13,265.6	-287.2	485.0	276.0	209.00	2.321		
22,420.0	8,957.1	22,388.2	8,966.4	105.1	104.3	-91.17	-13,285.6	-287.3	485.0	275.7	209.31	2.317		
22,500.0	8,957.2	22,468.2	8,966.5	105.7	104.9	-91.17	-13,365.6	-288.0	485.0	274.5	210.51	2.304		
22,515.0	8,957.3	22,483.2	8,966.5	105.8	105.0	-91.17	-13,380.6	-288.2	485.0	274.3	210.74	2.301		
22,600.0	8,957.4	22,568.2	8,966.6	106.5	105.6	-91.17	-13,465.6	-288.9	485.0	273.0	212.02	2.288		
22,610.0	8,957.4	22,578.2	8,966.6	106.6	105.7	-91.17	-13,475.6	-289.0	485.0	272.8	212.17	2.286		
22,700.0	8,957.6	22,668.2	8,966.8	107.2	106.4	-91.17	-13,565.6	-289.8	485.0	271.5	213.53	2.271		
22,705.0	8,957.6	22,673.2	8,966.8	107.3	106.4	-91.17	-13,570.6	-289.9	485.0	271.4	213.60	2.271		
22,800.0	8,957.7	22,768.2	8,966.9	108.0	107.1	-91.17	-13,665.6	-290.7	485.0	270.0	215.04	2.255		
22,895.0	8,957.9	22,863.2	8,967.1	108.7	107.8	-91.17	-13,760.6	-291.6	485.0	268.5	216.47	2.241		
22,900.0	8,957.9	22,868.2	8,967.1	108.7	107.9	-91.17	-13,765.6	-291.6	485.0	268.5	216.55	2.240		
22,990.0	8,958.0	22,958.2	8,967.2	109.4	108.6	-91.17	-13,855.6	-292.4	485.0	267.1	217.91	2.226		
23,000.0	8,958.1	22,968.2	8,967.2	109.5	108.6	-91.17	-13,865.6	-292.5	485.0	267.0	218.06	2.224		
23,085.0	8,958.2	23,053.2	8,967.3	110.1	109.3	-91.16	-13,950.6	-293.2	485.0	265.7	219.34	2.211		
23,100.0	8,958.2	23,068.2	8,967.4	110.2	109.4	-91.16	-13,965.6	-293.4	485.0	265.4	219.57	2.209		
23,180.0	8,958.3	23,148.2	8,967.5	110.8	110.0	-91.16	-14,045.6	-294.1	485.0	264.2	220.78	2.197		
23,200.0	8,958.4	23,168.2	8,967.5	111.0	110.2	-91.16	-14,065.6	-294.3	485.0	263.9	221.08	2.194		
23,275.0	8,958.5	23,243.2	8,967.6	111.5	110.7	-91.16	-14,140.6	-294.9	485.0	262.8	222.21	2.183		
23,300.0	8,958.5	23,268.2	8,967.7	111.7	110.9	-91.16	-14,165.6	-295.1	485.0	262.4	222.59	2.179		
23,370.0	8,958.7	23,338.2	8,967.8	112.3	111.4	-91.16	-14,235.5	-295.8	485.0	261.4	223.65	2.169		
23,400.0	8,958.7	23,368.2	8,967.8	112.5	111.7	-91.16	-14,265.5	-296.0	485.0	260.9	224.10	2.164		
23,465.0	8,958.8	23,433.2	8,967.9	113.0	112.2	-91.16	-14,330.5	-296.6	485.0	259.9	225.08	2.155		
23,500.0	8,958.9	23,468.2	8,968.0	113.2	112.4	-91.16	-14,365.5	-296.9	485.0	259.4	225.61	2.150		
23,560.0	8,959.0	23,528.2	8,968.1	113.7	112.9	-91.16	-14,425.5	-297.5	485.0	258.5	226.52	2.141		
23,600.0	8,959.0	23,568.2	8,968.1	114.0	113.2	-91.16	-14,465.5	-297.8	485.0	257.9	227.12	2.135		
23,655.0	8,959.1	23,623.2	8,968.2	114.4	113.6	-91.15	-14,520.5	-298.3	485.0	257.1	227.95	2.128		
23,700.0	8,959.2	23,668.2	8,968.3	114.7	113.9	-91.15	-14,565.5	-298.7	485.0	256.4	228.63	2.121		
23,750.0	8,959.3	23,718.2	8,968.3	115.1	114.3	-91.15	-14,615.5	-299.1	485.0	255.6	229.39	2.114		
23,800.0	8,959.3	23,768.2	8,968.4	115.5	114.7	-91.15	-14,665.5	-299.6	485.0	254.9	230.14	2.107		
23,845.0	8,959.4	23,813.2	8,968.5	115.8	115.0	-91.15	-14,710.5	-300.0	485.0	254.2	230.82	2.101		
23,900.0	8,959.5	23,868.2	8,968.6	116.3	115.5	-91.15	-14,765.5	-300.5	485.0	253.4	231.65	2.094		
23,940.0	8,959.6	23,908.2	8,968.6	116.6	115.8	-91.15	-14,805.5	-300.8	485.0	252.8	232.26	2.088		
24,000.0	8,959.7	23,968.2	8,968.7	117.0	116.2	-91.15	-14,865.5	-301.4	485.0	251.8	233.17	2.080		
24,035.0	8,959.7	24,003.2	8,968.8	117.3	116.5	-91.15	-14,900.5	-301.7	485.0	251.3	233.70	2.075		
24,072.6	8,959.8	24,040.8	8,968.8	117.5	116.8	-91.15	-14,938.1	-302.0	485.0	250.7	234.26	2.070		
24,100.0	8,959.8	24,068.2	8,968.8	117.8	117.0	-91.15	-14,965.5	-302.2	485.0	250.3	234.68	2.067		
24,130.0	8,959.9	24,098.2	8,968.9	118.0	117.2	-91.15	-14,995.5	-302.5	485.0	249.9	235.13	2.063		
24,179.2	8,960.0	24,147.4	8,969.0	118.4	117.6	-91.15	-15,044.7	-303.0	485.0	249.1	235.87	2.056		
24,202.6	8,960.0	24,170.7	8,969.0	118.5	117.8	-91.15	-15,068.0	-303.2	485.0	248.8	236.23	2.053 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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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	0.4	0.4	3.0	3.0	-90.95	-0.5	-30.0	30.0				
95.0	95.0	95.4	95.4	3.0	3.0	-90.95	-0.5	-30.0	30.0	24.0	6.04	4.971	
100.0	100.0	100.4	100.4	3.0	3.0	-90.95	-0.5	-30.0	30.0	24.0	6.04	4.967	
190.0	190.0	190.4	190.4	3.1	3.1	-90.95	-0.5	-30.0	30.0	23.8	6.25	4.798	
200.0	200.0	200.4	200.4	3.1	3.1	-90.95	-0.5	-30.0	30.0	23.7	6.29	4.773	
285.0	285.0	285.4	285.4	3.3	3.3	-90.95	-0.5	-30.0	30.0	23.5	6.48	4.628	
300.0	300.0	300.4	300.4	3.3	3.3	-90.95	-0.5	-30.0	30.0	23.5	6.52	4.600	
380.0	380.0	380.4	380.4	3.4	3.4	-90.95	-0.5	-30.0	30.0	23.3	6.70	4.477	
400.0	400.0	400.4	400.4	3.4	3.4	-90.95	-0.5	-30.0	30.0	23.3	6.75	4.445	
475.0	475.0	475.4	475.4	3.5	3.5	-90.95	-0.5	-30.0	30.0	23.1	6.91	4.340	
500.0	500.0	500.4	500.4	3.5	3.5	-90.95	-0.5	-30.0	30.0	23.0	6.97	4.304	
570.0	570.0	570.4	570.4	3.6	3.6	-90.95	-0.5	-30.0	30.0	22.9	7.12	4.215	
600.0	600.0	600.4	600.4	3.6	3.6	-90.95	-0.5	-30.0	30.0	22.8	7.18	4.176	
665.0	665.0	665.4	665.4	3.7	3.7	-90.95	-0.5	-30.0	30.0	22.7	7.32	4.100	
700.0	700.0	700.4	700.4	3.8	3.8	-90.95	-0.5	-30.0	30.0	22.6	7.39	4.059	
760.0	760.0	760.4	760.4	3.8	3.8	-90.95	-0.5	-30.0	30.0	22.5	7.51	3.994	
800.0	800.0	800.4	800.4	3.9	3.9	-90.95	-0.5	-30.0	30.0	22.4	7.59	3.951	
855.0	855.0	855.4	855.4	4.0	4.0	-90.95	-0.5	-30.0	30.0	22.3	7.70	3.896	
900.0	900.0	900.4	900.4	4.0	4.0	-90.95	-0.5	-30.0	30.0	22.2	7.79	3.851	
950.0	950.0	950.4	950.4	4.1	4.1	-90.95	-0.5	-30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	1,000.4	1,000.4	4.1	4.1	-90.95	-0.5	-30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,045.4	1,045.4	4.2	4.2	-90.95	-0.5	-30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,100.4	1,100.4	4.2	4.2	-90.95	-0.5	-30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,140.4	1,140.4	4.3	4.3	-90.95	-0.5	-30.0	30.0	21.8	8.24	3.640	
1,200.0	1,200.0	1,200.4	1,200.4	4.4	4.4	-90.95	-0.5	-30.0	30.0	21.7	8.35	3.592	
1,235.0	1,235.0	1,235.4	1,235.4	4.4	4.4	-90.95	-0.5	-30.0	30.0	21.6	8.42	3.565	
1,300.0	1,300.0	1,300.4	1,300.4	4.5	4.5	-90.95	-0.5	-30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,330.4	1,330.4	4.5	4.5	-90.95	-0.5	-30.0	30.0	21.4	8.58	3.495	
1,400.0	1,400.0	1,400.4	1,400.4	4.6	4.6	-90.95	-0.5	-30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,425.4	1,425.4	4.6	4.6	-90.95	-0.5	-30.0	30.0	21.3	8.75	3.429	
1,437.4	1,437.4	1,437.8	1,437.8	4.6	4.6	-90.95	-0.5	-30.0	30.0	21.2	8.77	3.421 CC	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-90.95	-0.5	-30.0	30.0	21.1	8.88	3.380	
1,520.0	1,520.0	1,520.2	1,520.2	4.7	4.7	-30.15	-0.5	-30.1	30.0	21.1	8.95	3.354	
1,600.0	1,600.0	1,599.4	1,599.4	4.9	4.8	-30.72	0.0	-31.6	30.1	20.9	9.22	3.269	
1,615.0	1,615.0	1,614.3	1,614.2	4.9	4.9	-30.91	0.2	-32.2	30.2	20.9	9.30	3.248	
1,700.0	1,699.8	1,698.4	1,698.3	5.1	5.0	-32.48	1.6	-36.5	30.6	20.8	9.72	3.146 ES	
1,710.0	1,709.8	1,708.3	1,708.1	5.1	5.0	-32.72	1.8	-37.2	30.6	20.9	9.76	3.136	
1,800.0	1,799.5	1,797.4	1,796.9	5.3	5.3	-35.31	4.2	-44.7	31.3	21.1	10.20	3.068	
1,805.0	1,804.4	1,802.4	1,801.8	5.3	5.3	-35.48	4.4	-45.2	31.4	21.1	10.23	3.066	
1,900.0	1,898.7	1,896.4	1,895.1	5.6	5.6	-39.04	7.9	-56.1	32.5	21.8	10.68	3.040	
1,995.0	1,992.5	1,990.4	1,988.0	5.9	5.9	-43.19	12.3	-69.9	34.1	22.9	11.12	3.064	
2,000.0	1,997.5	1,995.4	1,992.9	5.9	5.9	-43.42	12.6	-70.7	34.2	23.0	11.14	3.067	
2,090.0	2,085.8	2,084.4	2,080.4	6.2	6.2	-47.70	17.7	-86.6	36.2	24.7	11.52	3.141	
2,100.0	2,095.6	2,094.3	2,090.0	6.3	6.2	-48.18	18.3	-88.5	36.5	24.9	11.56	3.152	
2,185.0	2,178.5	2,178.4	2,172.0	6.6	6.5	-52.32	24.0	-106.1	38.9	27.0	11.90	3.273	
2,200.1	2,193.1	2,193.3	2,186.5	6.6	6.6	-53.05	25.0	-109.5	39.4	27.5	11.95	3.300	
2,280.0	2,270.7	2,273.0	2,263.9	6.9	6.8	-56.56	30.9	-127.8	42.3	30.1	12.23	3.461	
2,300.0	2,290.1	2,293.0	2,283.3	6.9	6.9	-57.36	32.4	-132.4	43.1	30.8	12.30	3.502	
2,375.0	2,362.9	2,367.9	2,356.0	7.2	7.1	-60.13	38.0	-149.7	46.0	33.4	12.57	3.656	
2,400.0	2,387.1	2,392.9	2,380.2	7.3	7.2	-60.98	39.8	-155.4	46.9	34.3	12.66	3.707	
2,470.0	2,455.0	2,462.8	2,448.1	7.5	7.5	-63.17	45.0	-171.5	49.7	36.8	12.92	3.850	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.0	2,484.1	2,492.8	2,477.1	7.6	7.6	-64.04	47.2	-178.4	50.9	37.9	13.03	3.911	
2,565.0	2,547.2	2,557.7	2,540.1	7.8	7.8	-65.78	52.0	-193.4	53.6	40.4	13.27	4.041	
2,600.0	2,581.2	2,592.7	2,574.1	8.0	7.9	-66.65	54.6	-201.4	55.1	41.7	13.40	4.111	
2,660.0	2,639.4	2,652.6	2,632.2	8.2	8.1	-68.03	59.0	-215.2	57.6	44.0	13.63	4.228	
2,700.0	2,678.2	2,692.5	2,671.0	8.4	8.3	-68.89	62.0	-224.4	59.3	45.5	13.78	4.305	
2,755.0	2,731.6	2,747.5	2,724.3	8.6	8.5	-69.99	66.0	-237.1	61.7	47.7	13.99	4.408	
2,800.0	2,775.2	2,792.4	2,767.9	8.7	8.7	-70.83	69.4	-247.4	63.6	49.5	14.17	4.492	
2,850.0	2,823.7	2,842.4	2,816.4	8.9	8.9	-71.70	73.1	-258.9	65.8	51.4	14.36	4.582	
2,900.0	2,872.3	2,892.3	2,864.8	9.1	9.1	-72.52	76.8	-270.4	68.0	53.4	14.56	4.671	
2,945.0	2,915.9	2,937.3	2,908.4	9.3	9.3	-73.21	80.1	-280.8	70.0	55.3	14.74	4.749	
3,000.0	2,969.3	2,992.2	2,961.7	9.5	9.5	-74.01	84.1	-293.4	72.4	57.5	14.96	4.843	
3,040.0	3,008.1	3,032.2	3,000.5	9.7	9.6	-74.55	87.1	-302.6	74.2	59.1	15.12	4.909	
3,100.0	3,066.3	3,092.1	3,058.7	9.9	9.9	-75.32	91.5	-316.4	76.9	61.5	15.36	5.006	
3,135.0	3,100.3	3,127.0	3,092.6	10.1	10.0	-75.75	94.1	-324.5	78.5	63.0	15.51	5.061	
3,200.0	3,163.3	3,192.0	3,155.6	10.4	10.3	-76.49	98.9	-339.4	81.4	65.6	15.77	5.162	
3,230.0	3,192.5	3,221.9	3,184.6	10.5	10.4	-76.82	101.1	-346.3	82.8	66.9	15.90	5.207	
3,300.0	3,260.4	3,291.9	3,252.5	10.8	10.7	-77.54	106.3	-362.4	85.9	69.8	16.19	5.309	
3,325.0	3,284.6	3,316.8	3,276.7	10.9	10.8	-77.78	108.2	-368.2	87.1	70.8	16.29	5.345	
3,400.0	3,357.4	3,391.7	3,349.4	11.2	11.2	-78.48	113.7	-385.4	90.5	73.9	16.61	5.450	
3,420.0	3,376.8	3,411.7	3,368.8	11.3	11.3	-78.66	115.2	-390.0	91.4	74.7	16.69	5.477	
3,500.0	3,454.4	3,491.6	3,446.3	11.7	11.6	-79.33	121.1	-408.4	95.1	78.1	17.03	5.583	
3,515.0	3,469.0	3,506.6	3,460.9	11.7	11.7	-79.45	122.2	-411.9	95.8	78.7	17.10	5.602	
3,600.0	3,551.5	3,591.5	3,543.3	12.1	12.0	-80.10	128.5	-431.4	99.7	82.2	17.46	5.709	
3,610.0	3,561.2	3,601.5	3,552.9	12.1	12.1	-80.18	129.2	-433.7	100.2	82.7	17.51	5.721	
3,700.0	3,648.5	3,691.4	3,640.2	12.5	12.5	-80.81	135.9	-454.4	104.3	86.4	17.90	5.829	
3,705.0	3,653.3	3,696.4	3,645.0	12.6	12.5	-80.84	136.3	-455.6	104.6	86.6	17.92	5.835	
3,800.0	3,745.5	3,791.3	3,737.1	13.0	12.9	-81.45	143.3	-477.4	109.0	90.6	18.34	5.942	
3,895.0	3,837.7	3,886.2	3,829.2	13.4	13.4	-82.01	150.3	-499.3	113.4	94.6	18.76	6.045	
3,900.0	3,842.5	3,891.2	3,834.0	13.4	13.4	-82.04	150.7	-500.4	113.6	94.8	18.78	6.050	
3,990.0	3,929.9	3,981.1	3,921.2	13.8	13.8	-82.53	157.3	-521.1	117.8	98.6	19.18	6.142	
4,000.0	3,939.6	3,991.1	3,930.9	13.9	13.8	-82.59	158.1	-523.4	118.3	99.0	19.22	6.152	
4,085.0	4,022.0	4,076.0	4,013.3	14.3	14.2	-83.02	164.3	-543.0	122.2	102.6	19.60	6.235	
4,100.0	4,036.6	4,090.9	4,027.9	14.3	14.3	-83.09	165.4	-546.4	122.9	103.3	19.67	6.249	
4,180.0	4,114.2	4,170.8	4,105.4	14.7	14.7	-83.47	171.4	-564.8	126.7	106.6	20.03	6.323	
4,200.0	4,133.6	4,190.8	4,124.8	14.8	14.8	-83.56	172.8	-569.4	127.6	107.5	20.12	6.341	
4,275.0	4,206.4	4,265.7	4,197.5	15.2	15.1	-83.89	178.4	-586.7	131.1	110.7	20.46	6.407	
4,300.0	4,230.7	4,290.7	4,221.7	15.3	15.2	-83.99	180.2	-592.4	132.3	111.7	20.58	6.429	
4,370.0	4,298.6	4,360.6	4,289.5	15.6	15.5	-84.28	185.4	-608.5	135.6	114.7	20.90	6.487	
4,400.0	4,327.7	4,390.6	4,318.6	15.7	15.7	-84.40	187.6	-615.4	137.0	115.9	21.04	6.512	
4,465.0	4,390.8	4,455.5	4,381.6	16.0	16.0	-84.64	192.4	-630.4	140.0	118.7	21.33	6.564	
4,500.0	4,424.7	4,490.5	4,415.5	16.2	16.1	-84.77	195.0	-638.4	141.7	120.2	21.50	6.591	
4,560.0	4,482.9	4,550.4	4,473.7	16.5	16.4	-84.99	199.4	-652.2	144.5	122.7	21.76	6.640	
4,578.5	4,500.9	4,568.9	4,491.6	16.5	16.5	-85.05	200.8	-656.5	145.4	123.5	21.84	6.655	
4,600.0	4,521.8	4,590.4	4,512.5	16.6	16.6	-85.11	202.4	-661.4	146.4	124.5	21.93	6.674	
4,655.0	4,575.3	4,645.3	4,565.8	16.9	16.9	-84.99	206.5	-674.1	149.1	126.9	22.21	6.711	
4,700.0	4,619.4	4,690.2	4,609.4	17.1	17.1	-84.60	209.8	-684.4	151.3	128.9	22.47	6.736	
4,750.0	4,668.4	4,740.1	4,657.8	17.4	17.3	-83.88	213.5	-695.9	153.9	131.2	22.77	6.760	
4,800.0	4,717.7	4,790.0	4,706.1	17.6	17.5	-82.87	217.2	-707.4	156.7	133.5	23.12	6.777	
4,845.0	4,762.1	4,834.8	4,749.6	17.8	17.7	-81.73	220.5	-717.7	159.3	135.8	23.46	6.790	
4,900.0	4,816.5	4,889.4	4,802.6	18.0	18.0	-80.06	224.5	-730.3	162.7	138.8	23.94	6.797	
4,940.0	4,856.2	4,929.1	4,841.2	18.2	18.2	-78.68	227.5	-739.4	165.5	141.1	24.34	6.799	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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	
5,000.0	4,915.9	4,988.5	4,898.8	18.5	18.5	-76.37	231.9	-753.1	170.0	145.0	25.02	6.795		
5,035.0	4,950.7	5,023.1	4,932.4	18.6	18.6	-74.90	234.4	-761.1	172.9	147.5	25.46	6.792		
5,100.0	5,015.6	5,087.1	4,994.5	18.9	18.9	-71.99	239.2	-775.8	179.0	152.6	26.38	6.785		
5,130.0	5,045.5	5,116.6	5,023.1	19.0	19.1	-70.58	241.3	-782.6	182.1	155.3	26.85	6.784		
5,200.0	5,115.4	5,185.1	5,089.6	19.2	19.4	-67.17	246.4	-798.4	190.4	162.3	28.04	6.791		
5,225.0	5,140.4	5,209.5	5,113.2	19.3	19.5	-65.92	248.2	-804.0	193.7	165.2	28.47	6.801		
5,278.6	5,194.0	5,261.6	5,163.8	19.3	19.8	-124.05	252.1	-816.0	201.3	171.9	29.45	6.837		
5,300.0	5,215.4	5,282.4	5,184.0	19.3	19.9	-122.93	253.6	-820.8	204.6	174.8	29.83	6.860		
5,320.0	5,235.4	5,301.8	5,202.8	19.4	19.9	-121.92	255.0	-825.2	207.8	177.6	30.19	6.883		
5,400.0	5,315.4	5,379.4	5,278.1	19.4	20.3	-118.14	260.8	-843.1	221.0	189.4	31.56	7.002		
5,415.0	5,330.4	5,394.0	5,292.2	19.4	20.4	-117.49	261.9	-846.5	223.6	191.8	31.81	7.029		
5,500.0	5,415.4	5,476.5	5,372.3	19.4	20.8	-114.02	268.0	-865.5	238.7	205.6	33.13	7.204		
5,510.0	5,425.4	5,486.2	5,381.7	19.4	20.8	-113.64	268.7	-867.7	240.5	207.2	33.28	7.227		
5,600.0	5,515.4	5,573.5	5,466.4	19.5	21.2	-110.47	275.1	-887.8	257.4	222.9	34.55	7.450		
5,605.0	5,520.4	5,578.4	5,471.1	19.5	21.3	-110.31	275.5	-888.9	258.4	223.8	34.62	7.464		
5,700.0	5,615.4	5,670.5	5,560.6	19.5	21.7	-107.40	282.3	-910.1	277.0	241.2	35.83	7.731		
5,795.0	5,710.4	5,762.7	5,650.0	19.6	22.1	-104.86	289.1	-931.4	296.3	259.3	36.94	8.020		
5,800.0	5,715.4	5,767.6	5,654.7	19.6	22.2	-104.73	289.5	-932.5	297.3	260.3	37.00	8.036		
5,890.0	5,805.4	5,854.9	5,739.4	19.6	22.6	-102.63	296.0	-952.6	316.0	278.1	37.96	8.325		
5,900.0	5,815.4	5,864.6	5,748.9	19.6	22.6	-102.41	296.7	-954.8	318.1	280.1	38.06	8.358		
5,985.0	5,900.4	5,947.1	5,828.9	19.7	23.0	-100.66	302.8	-973.8	336.2	297.3	38.90	8.641		
6,000.0	5,915.4	5,961.6	5,843.0	19.7	23.1	-100.37	303.9	-977.2	339.4	300.3	39.05	8.691		
6,080.0	5,995.4	6,039.3	5,918.3	19.7	23.5	-98.91	309.6	-995.0	356.7	316.9	39.79	8.964		
6,100.0	6,015.4	6,058.7	5,937.2	19.7	23.6	-98.56	311.0	-999.5	361.0	321.0	39.96	9.033		
6,175.0	6,090.4	6,131.4	6,007.8	19.7	23.9	-97.35	316.4	-1,016.3	377.4	336.8	40.62	9.293		
6,200.0	6,115.4	6,155.7	6,031.3	19.8	24.0	-96.96	318.2	-1,021.8	382.9	342.1	40.83	9.380		
6,270.0	6,185.4	6,223.6	6,097.2	19.8	24.4	-95.95	323.2	-1,037.5	398.5	357.1	41.40	9.624		
6,300.0	6,215.4	6,252.7	6,125.5	19.8	24.5	-95.54	325.4	-1,044.2	405.1	363.5	41.65	9.728		
6,365.0	6,280.4	6,318.3	6,189.1	19.8	24.8	-94.66	330.2	-1,059.2	419.6	377.5	42.17	9.950		
6,400.0	6,315.4	6,357.8	6,227.6	19.8	25.0	-94.19	333.0	-1,067.8	427.1	384.6	42.47	10.056		
6,460.0	6,375.4	6,426.1	6,294.3	19.9	25.3	-93.47	337.4	-1,081.5	438.9	395.9	42.95	10.219		
6,500.0	6,415.4	6,472.0	6,339.4	19.9	25.6	-93.06	340.1	-1,089.9	446.0	402.8	43.24	10.316		
6,555.0	6,470.4	6,535.5	6,402.0	19.9	25.8	-92.56	343.4	-1,100.3	454.9	411.3	43.60	10.433		
6,600.0	6,515.4	6,587.9	6,453.7	19.9	26.1	-92.21	345.9	-1,107.9	461.3	417.5	43.87	10.516		
6,650.0	6,565.4	6,646.3	6,511.6	20.0	26.3	-91.88	348.2	-1,115.3	467.6	423.5	44.14	10.594		
6,700.0	6,615.4	6,705.1	6,570.0	20.0	26.6	-91.61	350.3	-1,121.6	472.9	428.5	44.37	10.658		
6,745.0	6,660.4	6,758.2	6,622.9	20.0	26.8	-91.41	351.8	-1,126.3	476.9	432.3	44.55	10.704		
6,800.0	6,715.4	6,823.4	6,687.9	20.0	27.1	-91.22	353.2	-1,130.8	480.7	435.9	44.73	10.745		
6,840.0	6,755.4	6,870.9	6,735.3	20.1	27.2	-91.13	354.0	-1,133.2	482.7	437.8	44.83	10.766		
6,900.0	6,815.4	6,942.3	6,806.7	20.1	27.4	-91.04	354.7	-1,135.5	484.5	439.6	44.88	10.795		
6,935.0	6,850.4	6,983.9	6,848.3	20.1	27.5	-91.02	354.9	-1,136.0	484.9	440.1	44.87	10.808		
7,000.0	6,915.4	7,051.4	6,915.8	20.1	27.5	-91.02	354.9	-1,136.0	485.0	440.1	44.90	10.800		
7,030.0	6,945.4	7,081.4	6,945.8	20.1	27.5	-91.02	354.9	-1,136.0	485.0	440.0	44.93	10.794		
7,100.0	7,015.4	7,151.4	7,015.8	20.2	27.6	-91.02	354.9	-1,136.0	485.0	440.0	44.99	10.780		
7,125.0	7,040.4	7,176.4	7,040.8	20.2	27.6	-91.02	354.9	-1,136.0	485.0	440.0	45.01	10.775		
7,200.0	7,115.4	7,251.4	7,115.8	20.2	27.6	-91.02	354.9	-1,136.0	485.0	439.9	45.07	10.760		
7,220.0	7,135.4	7,271.4	7,135.8	20.2	27.6	-91.02	354.9	-1,136.0	485.0	439.9	45.09	10.756		
7,300.0	7,215.4	7,351.4	7,215.8	20.3	27.6	-91.02	354.9	-1,136.0	485.0	439.8	45.16	10.740		
7,315.0	7,230.4	7,366.4	7,230.8	20.3	27.6	-91.02	354.9	-1,136.0	485.0	439.8	45.17	10.737		
7,400.0	7,315.4	7,451.4	7,315.8	20.3	27.6	-91.02	354.9	-1,136.0	485.0	439.7	45.24	10.720		
7,410.0	7,325.4	7,461.4	7,325.8	20.3	27.6	-91.02	354.9	-1,136.0	485.0	439.7	45.25	10.718		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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)				
7,500.0	7,415.4	7,551.4	7,415.8	20.4	27.7	-91.02	354.9	-1,136.0	485.0	439.7	45.32	10.700		
7,505.0	7,420.4	7,556.4	7,420.8	20.4	27.7	-91.02	354.9	-1,136.0	485.0	439.6	45.33	10.699		
7,600.0	7,515.4	7,651.4	7,515.8	20.4	27.7	-91.02	354.9	-1,136.0	485.0	439.6	45.41	10.680		
7,695.0	7,610.4	7,746.4	7,610.8	20.5	27.7	-91.02	354.9	-1,136.0	485.0	439.5	45.49	10.661		
7,700.0	7,615.4	7,751.4	7,615.8	20.5	27.7	-91.02	354.9	-1,136.0	485.0	439.5	45.50	10.660		
7,790.0	7,705.4	7,841.4	7,705.8	20.5	27.8	-91.02	354.9	-1,136.0	485.0	439.4	45.57	10.642		
7,800.0	7,715.4	7,851.4	7,715.8	20.5	27.8	-91.02	354.9	-1,136.0	485.0	439.4	45.58	10.640		
7,885.0	7,800.4	7,936.4	7,800.8	20.6	27.8	-91.02	354.9	-1,136.0	485.0	439.3	45.66	10.623		
7,900.0	7,815.4	7,951.4	7,815.8	20.6	27.8	-91.02	354.9	-1,136.0	485.0	439.3	45.67	10.619		
7,980.0	7,895.4	8,031.4	7,895.8	20.6	27.8	-91.02	354.9	-1,136.0	485.0	439.2	45.74	10.603		
8,000.0	7,915.4	8,051.4	7,915.8	20.6	27.8	-91.02	354.9	-1,136.0	485.0	439.2	45.76	10.599		
8,075.0	7,990.4	8,126.4	7,990.8	20.7	27.9	-91.02	354.9	-1,136.0	485.0	439.2	45.82	10.584		
8,100.0	8,015.4	8,151.4	8,015.8	20.7	27.9	-91.02	354.9	-1,136.0	485.0	439.1	45.84	10.579		
8,170.0	8,085.4	8,221.4	8,085.8	20.7	27.9	-91.02	354.9	-1,136.0	485.0	439.1	45.90	10.565		
8,200.0	8,115.4	8,251.4	8,115.8	20.7	27.9	-91.02	354.9	-1,136.0	485.0	439.0	45.93	10.559		
8,265.0	8,180.4	8,316.4	8,180.8	20.7	27.9	-91.02	354.9	-1,136.0	485.0	439.0	45.99	10.546		
8,300.0	8,215.4	8,351.4	8,215.8	20.8	27.9	-91.02	354.9	-1,136.0	485.0	439.0	46.02	10.539		
8,360.0	8,275.4	8,411.4	8,275.8	20.8	28.0	-91.02	354.9	-1,136.0	485.0	438.9	46.07	10.527		
8,400.0	8,315.4	8,451.4	8,315.8	20.8	28.0	-91.02	354.9	-1,136.0	485.0	438.9	46.10	10.519		
8,402.4	8,317.8	8,453.8	8,318.2	20.8	28.0	-91.02	354.9	-1,136.0	485.0	438.9	46.10	10.519		
8,447.6	8,363.0	8,498.8	8,363.2	20.8	28.0	-91.03	354.8	-1,136.0	485.0	438.9	46.12	10.515		
8,450.0	8,365.4	8,501.4	8,365.8	20.8	28.0	88.45	354.7	-1,136.0	485.0	438.9	46.12	10.515		
8,455.0	8,370.4	8,506.0	8,370.8	20.8	28.0	88.44	354.6	-1,136.0	485.0	438.9	46.13	10.515		
8,500.0	8,415.4	8,550.0	8,414.8	20.8	28.0	88.34	351.4	-1,136.0	485.0	438.9	46.13	10.514		
8,550.0	8,464.9	8,598.7	8,462.4	20.9	28.0	88.23	344.0	-1,136.1	485.0	438.9	46.14	10.511		
8,600.0	8,513.6	8,647.4	8,509.7	20.9	28.0	88.14	332.5	-1,136.2	485.1	438.9	46.16	10.508		
8,645.0	8,556.6	8,691.1	8,551.2	20.9	28.0	88.07	318.8	-1,136.3	485.1	438.9	46.18	10.505		
8,650.0	8,561.3	8,696.0	8,555.8	20.9	28.0	88.06	317.1	-1,136.3	485.1	438.9	46.18	10.505		
8,700.0	8,607.4	8,744.6	8,600.4	20.9	28.0	87.99	297.8	-1,136.5	485.1	438.9	46.20	10.500		
8,740.0	8,642.9	8,783.4	8,634.7	21.0	28.0	87.95	279.7	-1,136.7	485.1	438.9	46.22	10.496		
8,750.0	8,651.6	8,793.1	8,643.1	21.0	28.0	87.94	274.9	-1,136.7	485.1	438.9	46.23	10.494		
8,800.0	8,693.6	8,841.6	8,683.8	21.0	28.1	87.91	248.4	-1,136.9	485.1	438.9	46.26	10.488		
8,835.0	8,721.6	8,875.6	8,710.8	21.0	28.1	87.89	227.9	-1,137.1	485.1	438.9	46.28	10.482		
8,850.0	8,733.2	8,890.1	8,722.0	21.0	28.1	87.89	218.6	-1,137.2	485.1	438.8	46.30	10.479		
8,900.0	8,769.9	8,938.6	8,757.6	21.1	28.1	87.89	185.7	-1,137.5	485.1	438.8	46.34	10.469		
8,930.0	8,790.4	8,967.7	8,777.5	21.1	28.1	87.89	164.5	-1,137.7	485.1	438.8	46.37	10.463		
8,950.0	8,803.5	8,987.1	8,790.2	21.1	28.1	87.90	149.9	-1,137.8	485.1	438.7	46.39	10.458		
9,000.0	8,833.8	9,035.6	8,819.8	21.1	28.1	87.93	111.4	-1,138.2	485.1	438.7	46.45	10.445		
9,025.0	8,847.6	9,059.9	8,833.3	21.2	28.1	87.95	91.3	-1,138.3	485.1	438.6	46.48	10.437		
9,050.0	8,860.4	9,084.1	8,846.0	21.2	28.2	87.97	70.6	-1,138.5	485.1	438.6	46.51	10.429		
9,100.0	8,883.3	9,132.7	8,868.6	21.2	28.2	88.03	27.7	-1,138.9	485.1	438.5	46.59	10.413		
9,120.0	8,891.4	9,152.1	8,876.7	21.2	28.2	88.05	10.0	-1,139.1	485.1	438.5	46.62	10.405		
9,150.0	8,902.3	9,181.3	8,887.6	21.3	28.2	88.10	-17.1	-1,139.3	485.1	438.4	46.67	10.394		
9,200.0	8,917.1	9,230.0	8,902.7	21.3	28.3	88.19	-63.3	-1,139.7	485.1	438.3	46.76	10.373		
9,215.0	8,920.7	9,244.6	8,906.5	21.3	28.3	88.22	-77.4	-1,139.8	485.0	438.3	46.79	10.367		
9,250.0	8,927.7	9,278.7	8,913.9	21.4	28.3	88.29	-110.7	-1,140.1	485.0	438.2	46.86	10.351		
9,300.0	8,934.0	9,327.5	8,920.9	21.4	28.4	88.40	-159.0	-1,140.6	485.0	438.0	46.96	10.328		
9,310.0	8,934.8	9,337.2	8,921.9	21.5	28.4	88.42	-168.7	-1,140.7	485.0	438.0	46.98	10.323		
9,346.7	8,936.0	9,373.1	8,923.8	21.5	28.4	88.52	-204.5	-1,141.0	485.0	437.9	47.06	10.305		
9,359.4	8,936.0	9,385.6	8,924.0	21.5	28.4	88.53	-217.0	-1,141.1	485.0	437.9	47.09	10.298		
9,400.0	8,936.1	9,426.1	8,924.1	21.6	28.5	88.53	-257.5	-1,141.4	485.0	437.8	47.18	10.278		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
9,405.0	8,936.1	9,431.1	8,924.1	21.6	28.5	88.53	-262.5	-1,141.5	485.0	437.8	47.20	10.275	
9,500.0	8,936.2	9,526.1	8,924.3	21.7	28.6	88.54	-357.5	-1,142.3	485.0	437.5	47.46	10.219	
9,595.0	8,936.4	9,621.1	8,924.4	21.9	28.8	88.54	-452.5	-1,143.2	485.0	437.2	47.76	10.153	
9,600.0	8,936.4	9,626.1	8,924.5	21.9	28.8	88.54	-457.5	-1,143.2	485.0	437.2	47.78	10.150	
9,690.0	8,936.6	9,716.1	8,924.6	22.0	28.9	88.54	-547.5	-1,144.0	485.0	436.9	48.11	10.080	
9,700.0	8,936.6	9,726.1	8,924.6	22.1	28.9	88.54	-557.5	-1,144.1	485.0	436.8	48.15	10.072	
9,785.0	8,936.7	9,811.1	8,924.8	22.2	29.1	88.55	-642.5	-1,144.9	485.0	436.5	48.50	9.999	
9,800.0	8,936.7	9,826.1	8,924.8	22.3	29.1	88.55	-657.5	-1,145.0	485.0	436.4	48.57	9.986	
9,880.0	8,936.9	9,906.1	8,925.0	22.4	29.3	88.55	-737.5	-1,145.7	485.0	436.0	48.93	9.911	
9,900.0	8,936.9	9,926.1	8,925.0	22.5	29.3	88.55	-757.5	-1,145.9	485.0	435.9	49.03	9.892	
9,975.0	8,937.0	10,001.1	8,925.2	22.7	29.5	88.55	-832.5	-1,146.6	485.0	435.6	49.40	9.817	
10,000.0	8,937.1	10,026.1	8,925.2	22.7	29.5	88.55	-857.5	-1,146.8	485.0	435.4	49.53	9.791	
10,070.0	8,937.2	10,096.1	8,925.3	22.9	29.7	88.56	-927.5	-1,147.4	485.0	435.1	49.91	9.716	
10,100.0	8,937.2	10,126.1	8,925.4	23.0	29.8	88.56	-957.5	-1,147.7	485.0	434.9	50.08	9.684	
10,165.0	8,937.3	10,191.1	8,925.5	23.2	29.9	88.56	-1,022.5	-1,148.2	485.0	434.5	50.46	9.611	
10,200.0	8,937.4	10,226.1	8,925.6	23.3	30.0	88.56	-1,057.5	-1,148.6	485.0	434.3	50.67	9.572	
10,260.0	8,937.5	10,286.1	8,925.7	23.5	30.2	88.56	-1,117.5	-1,149.1	485.0	433.9	51.04	9.502	
10,300.0	8,937.5	10,326.1	8,925.8	23.6	30.3	88.56	-1,157.5	-1,149.4	485.0	433.7	51.29	9.455	
10,355.0	8,937.6	10,381.1	8,925.9	23.8	30.5	88.56	-1,212.5	-1,149.9	485.0	433.3	51.66	9.388	
10,400.0	8,937.7	10,426.1	8,926.0	23.9	30.6	88.57	-1,257.5	-1,150.3	485.0	433.0	51.96	9.334	
10,450.0	8,937.8	10,476.1	8,926.1	24.1	30.7	88.57	-1,307.5	-1,150.8	485.0	432.7	52.31	9.272	
10,500.0	8,937.9	10,526.1	8,926.2	24.2	30.9	88.57	-1,357.5	-1,151.2	485.0	432.3	52.66	9.210	
10,545.0	8,937.9	10,571.1	8,926.2	24.4	31.0	88.57	-1,402.5	-1,151.6	485.0	432.0	52.99	9.153	
10,600.0	8,938.0	10,626.1	8,926.3	24.6	31.2	88.57	-1,457.5	-1,152.1	485.0	431.6	53.39	9.083	
10,640.0	8,938.1	10,666.1	8,926.4	24.7	31.3	88.57	-1,497.5	-1,152.5	485.0	431.3	53.70	9.031	
10,700.0	8,938.2	10,726.1	8,926.5	25.0	31.5	88.58	-1,557.5	-1,153.0	485.0	430.8	54.16	8.954	
10,735.0	8,938.2	10,761.1	8,926.6	25.1	31.6	88.58	-1,592.5	-1,153.3	485.0	430.5	54.44	8.909	
10,800.0	8,938.3	10,826.1	8,926.7	25.4	31.8	88.58	-1,657.5	-1,153.9	485.0	430.0	54.96	8.824	
10,830.0	8,938.4	10,856.1	8,926.8	25.5	32.0	88.58	-1,687.5	-1,154.2	485.0	429.8	55.21	8.784	
10,900.0	8,938.5	10,926.1	8,926.9	25.8	32.2	88.58	-1,757.5	-1,154.8	485.0	429.2	55.79	8.693	
10,925.0	8,938.5	10,951.1	8,927.0	25.9	32.3	88.58	-1,782.5	-1,155.0	485.0	429.0	56.01	8.660	
11,000.0	8,938.7	11,026.1	8,927.1	26.2	32.6	88.58	-1,857.5	-1,155.7	485.0	428.3	56.65	8.561	
11,020.0	8,938.7	11,046.1	8,927.1	26.3	32.6	88.59	-1,877.5	-1,155.8	485.0	428.2	56.83	8.534	
11,100.0	8,938.8	11,126.1	8,927.3	26.6	32.9	88.59	-1,957.5	-1,156.6	485.0	427.4	57.54	8.429	
11,115.0	8,938.9	11,141.1	8,927.3	26.7	33.0	88.59	-1,972.5	-1,156.7	485.0	427.3	57.67	8.409	
11,200.0	8,939.0	11,226.1	8,927.5	27.1	33.3	88.59	-2,057.5	-1,157.4	485.0	426.5	58.45	8.297	
11,210.0	8,939.0	11,236.1	8,927.5	27.2	33.4	88.59	-2,067.5	-1,157.5	485.0	426.4	58.54	8.284	
11,300.0	8,939.2	11,326.1	8,927.7	27.6	33.7	88.59	-2,157.5	-1,158.3	485.0	425.6	59.39	8.166	
11,305.0	8,939.2	11,331.1	8,927.7	27.6	33.8	88.59	-2,162.5	-1,158.4	485.0	425.5	59.44	8.160	
11,400.0	8,939.3	11,426.1	8,927.8	28.1	34.1	88.60	-2,257.5	-1,159.2	485.0	424.6	60.35	8.036	
11,495.0	8,939.5	11,521.1	8,928.0	28.5	34.5	88.60	-2,352.5	-1,160.1	485.0	423.7	61.28	7.914	
11,500.0	8,939.5	11,526.1	8,928.0	28.6	34.6	88.60	-2,357.5	-1,160.1	485.0	423.7	61.33	7.907	
11,590.0	8,939.6	11,616.1	8,928.2	29.0	35.0	88.60	-2,447.5	-1,160.9	485.0	422.7	62.24	7.792	
11,600.0	8,939.6	11,626.1	8,928.2	29.1	35.0	88.60	-2,457.5	-1,161.0	485.0	422.6	62.34	7.780	
11,685.0	8,939.8	11,711.1	8,928.4	29.5	35.4	88.61	-2,542.4	-1,161.8	485.0	421.8	63.21	7.672	
11,700.0	8,939.8	11,726.1	8,928.4	29.6	35.5	88.61	-2,557.4	-1,161.9	485.0	421.6	63.37	7.654	
11,780.0	8,939.9	11,806.1	8,928.6	30.0	35.8	88.61	-2,637.4	-1,162.6	485.0	420.8	64.20	7.554	
11,800.0	8,940.0	11,826.1	8,928.6	30.1	35.9	88.61	-2,657.4	-1,162.8	485.0	420.6	64.41	7.529	
11,875.0	8,940.1	11,901.1	8,928.7	30.5	36.3	88.61	-2,732.4	-1,163.4	485.0	419.8	65.21	7.437	
11,900.0	8,940.1	11,926.1	8,928.8	30.7	36.4	88.61	-2,757.4	-1,163.7	485.0	419.5	65.48	7.407	
11,970.0	8,940.2	11,996.1	8,928.9	31.1	36.7	88.62	-2,827.4	-1,164.3	485.0	418.8	66.24	7.322	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS										Offset Well Error: 3.0 usft				
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Distance	Minimum	Separation	Warning	
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
12,000.0	8,940.3	12,026.1	8,929.0	31.2	36.8	88.62	-2,857.4	-1,164.6	485.0	418.4	66.56	7.286		
12,065.0	8,940.4	12,091.1	8,929.1	31.6	37.2	88.62	-2,922.4	-1,165.1	485.0	417.7	67.28	7.209		
12,100.0	8,940.4	12,126.1	8,929.2	31.8	37.3	88.62	-2,957.4	-1,165.5	485.0	417.3	67.66	7.168		
12,160.0	8,940.5	12,186.1	8,929.3	32.1	37.6	88.62	-3,017.4	-1,166.0	485.0	416.7	68.33	7.098		
12,200.0	8,940.6	12,226.1	8,929.4	32.4	37.8	88.62	-3,057.4	-1,166.3	485.0	416.2	68.78	7.051		
12,255.0	8,940.7	12,281.1	8,929.5	32.7	38.1	88.63	-3,112.4	-1,166.8	485.0	415.6	69.40	6.988		
12,300.0	8,940.8	12,326.1	8,929.5	33.0	38.3	88.63	-3,157.4	-1,167.2	485.0	415.1	69.91	6.937		
12,350.0	8,940.9	12,376.1	8,929.6	33.2	38.6	88.63	-3,207.4	-1,167.7	485.0	414.5	70.48	6.881		
12,400.0	8,940.9	12,426.1	8,929.7	33.5	38.8	88.63	-3,257.4	-1,168.1	485.0	413.9	71.06	6.825		
12,445.0	8,941.0	12,471.1	8,929.8	33.8	39.1	88.63	-3,302.4	-1,168.5	485.0	413.4	71.58	6.776		
12,500.0	8,941.1	12,526.1	8,929.9	34.1	39.4	88.63	-3,357.4	-1,169.0	485.0	412.8	72.22	6.716		
12,540.0	8,941.2	12,566.1	8,930.0	34.4	39.6	88.63	-3,397.4	-1,169.4	485.0	412.3	72.68	6.673		
12,600.0	8,941.3	12,626.1	8,930.1	34.7	39.9	88.64	-3,457.4	-1,169.9	485.0	411.6	73.39	6.609		
12,635.0	8,941.3	12,661.1	8,930.2	35.0	40.1	88.64	-3,492.4	-1,170.2	485.0	411.2	73.80	6.571		
12,700.0	8,941.4	12,726.1	8,930.3	35.4	40.4	88.64	-3,557.4	-1,170.8	485.0	410.4	74.58	6.503		
12,730.0	8,941.5	12,756.1	8,930.4	35.5	40.6	88.64	-3,587.4	-1,171.1	485.0	410.1	74.93	6.472		
12,800.0	8,941.6	12,826.1	8,930.5	36.0	41.0	88.64	-3,657.4	-1,171.7	485.0	409.2	75.77	6.401		
12,825.0	8,941.6	12,851.1	8,930.5	36.1	41.1	88.64	-3,682.4	-1,171.9	485.0	408.9	76.08	6.375		
12,900.0	8,941.7	12,926.1	8,930.7	36.6	41.5	88.65	-3,757.4	-1,172.6	485.0	408.0	76.98	6.300		
12,920.0	8,941.8	12,946.1	8,930.7	36.7	41.6	88.65	-3,777.4	-1,172.7	485.0	407.8	77.23	6.280		
13,000.0	8,941.9	13,026.1	8,930.9	37.2	42.1	88.65	-3,857.4	-1,173.5	485.0	406.8	78.20	6.202		
13,015.0	8,941.9	13,041.1	8,930.9	37.3	42.2	88.65	-3,872.4	-1,173.6	485.0	406.6	78.39	6.187		
13,100.0	8,942.1	13,126.1	8,931.1	37.9	42.6	88.65	-3,957.4	-1,174.3	485.0	405.6	79.43	6.106		
13,110.0	8,942.1	13,136.1	8,931.1	37.9	42.7	88.65	-3,967.4	-1,174.4	485.0	405.4	79.56	6.096		
13,200.0	8,942.2	13,226.1	8,931.2	38.5	43.2	88.66	-4,057.4	-1,175.2	485.0	404.3	80.68	6.012		
13,205.0	8,942.2	13,231.1	8,931.3	38.5	43.2	88.66	-4,062.4	-1,175.3	485.0	404.3	80.74	6.007		
13,300.0	8,942.4	13,326.1	8,931.4	39.1	43.8	88.66	-4,157.4	-1,176.1	485.0	403.1	81.93	5.920		
13,395.0	8,942.5	13,421.1	8,931.6	39.8	44.3	88.66	-4,252.4	-1,177.0	485.0	401.9	83.12	5.835		
13,400.0	8,942.5	13,426.1	8,931.6	39.8	44.4	88.66	-4,257.4	-1,177.0	485.0	401.8	83.19	5.830		
13,490.0	8,942.7	13,516.1	8,931.8	40.4	44.9	88.66	-4,347.4	-1,177.8	485.0	400.7	84.33	5.751		
13,500.0	8,942.7	13,526.1	8,931.8	40.5	45.0	88.67	-4,357.4	-1,177.9	485.0	400.5	84.45	5.743		
13,585.0	8,942.8	13,611.1	8,932.0	41.0	45.5	88.67	-4,442.4	-1,178.7	485.0	399.5	85.54	5.670		
13,600.0	8,942.9	13,626.1	8,932.0	41.1	45.5	88.67	-4,457.4	-1,178.8	485.0	399.3	85.73	5.657		
13,680.0	8,943.0	13,706.1	8,932.1	41.6	46.0	88.67	-4,537.4	-1,179.5	485.0	398.2	86.76	5.590		
13,700.0	8,943.0	13,726.1	8,932.2	41.8	46.1	88.67	-4,557.4	-1,179.7	485.0	398.0	87.02	5.574		
13,775.0	8,943.2	13,801.1	8,932.3	42.3	46.6	88.67	-4,632.4	-1,180.3	485.0	397.0	87.98	5.512		
13,800.0	8,943.2	13,826.1	8,932.4	42.4	46.7	88.67	-4,657.4	-1,180.6	485.0	396.7	88.31	5.492		
13,870.0	8,943.3	13,896.1	8,932.5	42.9	47.2	88.68	-4,727.4	-1,181.2	485.0	395.8	89.22	5.436		
13,900.0	8,943.4	13,926.1	8,932.6	43.1	47.4	88.68	-4,757.4	-1,181.5	485.0	395.4	89.61	5.413		
13,965.0	8,943.5	13,991.1	8,932.7	43.5	47.7	88.68	-4,822.4	-1,182.0	485.0	394.5	90.46	5.362		
14,000.0	8,943.5	14,026.1	8,932.8	43.8	48.0	88.68	-4,857.4	-1,182.3	485.0	394.1	90.91	5.335		
14,060.0	8,943.6	14,086.1	8,932.9	44.2	48.3	88.68	-4,917.3	-1,182.9	485.0	393.3	91.70	5.289		
14,100.0	8,943.7	14,126.1	8,932.9	44.5	48.6	88.68	-4,957.3	-1,183.2	485.0	392.8	92.23	5.259		
14,155.0	8,943.8	14,181.1	8,933.0	44.8	48.9	88.69	-5,012.3	-1,183.7	485.0	392.1	92.95	5.218		
14,200.0	8,943.8	14,226.1	8,933.1	45.1	49.2	88.69	-5,057.3	-1,184.1	485.0	391.5	93.55	5.185		
14,250.0	8,943.9	14,276.1	8,933.2	45.5	49.5	88.69	-5,107.3	-1,184.6	485.0	390.8	94.21	5.148		
14,300.0	8,944.0	14,326.1	8,933.3	45.8	49.8	88.69	-5,157.3	-1,185.0	485.0	390.1	94.87	5.112		
14,345.0	8,944.1	14,371.1	8,933.4	46.1	50.1	88.69	-5,202.3	-1,185.4	485.0	389.5	95.47	5.080		
14,400.0	8,944.2	14,426.1	8,933.5	46.5	50.5	88.69	-5,257.3	-1,185.9	485.0	388.8	96.21	5.041		
14,440.0	8,944.2	14,466.1	8,933.6	46.8	50.7	88.70	-5,297.3	-1,186.3	485.0	388.3	96.74	5.014		
14,500.0	8,944.3	14,526.1	8,933.7	47.2	51.1	88.70	-5,357.3	-1,186.8	485.0	387.5	97.54	4.972		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
14,535.0	8,944.4	14,561.1	8,933.8	47.4	51.3	88.70	-5,392.3	-1,187.1	485.0	387.0	98.01	4.948	
14,600.0	8,944.5	14,626.1	8,933.9	47.9	51.7	88.70	-5,457.3	-1,187.7	485.0	386.1	98.89	4.905	
14,630.0	8,944.5	14,656.1	8,933.9	48.1	51.9	88.70	-5,487.3	-1,187.9	485.0	385.7	99.29	4.885	
14,700.0	8,944.6	14,726.1	8,934.1	48.6	52.4	88.70	-5,557.3	-1,188.6	485.0	384.8	100.23	4.839	
14,725.0	8,944.7	14,751.1	8,934.1	48.7	52.5	88.70	-5,582.3	-1,188.8	485.0	384.4	100.57	4.822	
14,800.0	8,944.8	14,826.1	8,934.3	49.3	53.0	88.71	-5,657.3	-1,189.5	485.0	383.4	101.59	4.774	
14,820.0	8,944.8	14,846.1	8,934.3	49.4	53.1	88.71	-5,677.3	-1,189.6	485.0	383.2	101.86	4.762	
14,900.0	8,945.0	14,926.1	8,934.5	50.0	53.6	88.71	-5,757.3	-1,190.3	485.0	382.1	102.95	4.711	
14,915.0	8,945.0	14,941.1	8,934.5	50.1	53.7	88.71	-5,772.3	-1,190.5	485.0	381.9	103.15	4.702	
15,000.0	8,945.1	15,026.1	8,934.6	50.7	54.3	88.71	-5,857.3	-1,191.2	485.0	380.7	104.31	4.650	
15,010.0	8,945.1	15,036.1	8,934.7	50.7	54.4	88.71	-5,867.3	-1,191.3	485.0	380.6	104.45	4.644	
15,100.0	8,945.3	15,126.1	8,934.8	51.4	54.9	88.72	-5,957.3	-1,192.1	485.0	379.3	105.68	4.590	
15,105.0	8,945.3	15,131.1	8,934.8	51.4	55.0	88.72	-5,962.3	-1,192.2	485.0	379.3	105.74	4.587	
15,200.0	8,945.5	15,226.1	8,935.0	52.1	55.6	88.72	-6,057.3	-1,193.0	485.0	378.0	107.05	4.531	
15,295.0	8,945.6	15,321.1	8,935.2	52.7	56.2	88.72	-6,152.3	-1,193.9	485.0	376.7	108.35	4.476	
15,300.0	8,945.6	15,326.1	8,935.2	52.8	56.3	88.72	-6,157.3	-1,193.9	485.0	376.6	108.42	4.473	
15,390.0	8,945.8	15,416.1	8,935.4	53.4	56.9	88.73	-6,247.3	-1,194.7	485.0	375.3	109.66	4.423	
15,400.0	8,945.8	15,426.1	8,935.4	53.5	56.9	88.73	-6,257.3	-1,194.8	485.0	375.2	109.80	4.417	
15,485.0	8,945.9	15,511.1	8,935.6	54.1	57.5	88.73	-6,342.3	-1,195.5	485.0	374.0	110.98	4.370	
15,500.0	8,945.9	15,526.1	8,935.6	54.2	57.6	88.73	-6,357.3	-1,195.7	485.0	373.8	111.19	4.362	
15,580.0	8,946.1	15,606.1	8,935.7	54.7	58.1	88.73	-6,437.3	-1,196.4	485.0	372.7	112.30	4.319	
15,600.0	8,946.1	15,626.1	8,935.8	54.9	58.3	88.73	-6,457.3	-1,196.6	485.0	372.4	112.57	4.308	
15,675.0	8,946.2	15,701.1	8,935.9	55.4	58.8	88.73	-6,532.3	-1,197.2	485.0	371.4	113.62	4.269	
15,700.0	8,946.3	15,726.1	8,936.0	55.6	58.9	88.74	-6,557.3	-1,197.5	485.0	371.1	113.96	4.256	
15,770.0	8,946.4	15,796.1	8,936.1	56.1	59.4	88.74	-6,627.3	-1,198.1	485.0	370.1	114.94	4.220	
15,800.0	8,946.4	15,826.1	8,936.1	56.3	59.6	88.74	-6,657.3	-1,198.3	485.0	369.7	115.36	4.204	
15,865.0	8,946.5	15,891.1	8,936.3	56.8	60.0	88.74	-6,722.3	-1,198.9	485.0	368.8	116.27	4.172	
15,900.0	8,946.6	15,926.1	8,936.3	57.0	60.3	88.74	-6,757.3	-1,199.2	485.0	368.3	116.76	4.154	
15,960.0	8,946.7	15,986.1	8,936.5	57.4	60.7	88.74	-6,817.3	-1,199.8	485.0	367.4	117.60	4.124	
16,000.0	8,946.7	16,026.1	8,936.5	57.7	60.9	88.75	-6,857.3	-1,200.1	485.0	366.9	118.16	4.105	
16,055.0	8,946.8	16,081.1	8,936.6	58.1	61.3	88.75	-6,912.3	-1,200.6	485.0	366.1	118.93	4.078	
16,100.0	8,946.9	16,126.1	8,936.7	58.5	61.6	88.75	-6,957.3	-1,201.0	485.0	365.5	119.56	4.057	
16,150.0	8,947.0	16,176.1	8,936.8	58.8	62.0	88.75	-7,007.3	-1,201.5	485.0	364.8	120.26	4.033	
16,200.0	8,947.1	16,226.1	8,936.9	59.2	62.3	88.75	-7,057.3	-1,201.9	485.0	364.1	120.97	4.009	
16,245.0	8,947.1	16,271.1	8,937.0	59.5	62.6	88.75	-7,102.3	-1,202.3	485.0	363.4	121.60	3.989	
16,300.0	8,947.2	16,326.1	8,937.1	59.9	63.0	88.75	-7,157.3	-1,202.8	485.0	362.6	122.38	3.963	
16,340.0	8,947.3	16,366.1	8,937.2	60.2	63.3	88.76	-7,197.3	-1,203.1	485.0	362.1	122.94	3.945	
16,400.0	8,947.4	16,426.1	8,937.3	60.6	63.7	88.76	-7,257.3	-1,203.7	485.0	361.2	123.79	3.918	
16,435.0	8,947.5	16,461.1	8,937.3	60.9	63.9	88.76	-7,292.2	-1,204.0	485.0	360.7	124.29	3.902	
16,500.0	8,947.6	16,526.1	8,937.5	61.3	64.3	88.76	-7,357.2	-1,204.6	485.0	359.8	125.21	3.874	
16,530.0	8,947.6	16,556.1	8,937.5	61.5	64.6	88.76	-7,387.2	-1,204.8	485.0	359.4	125.63	3.861	
16,600.0	8,947.7	16,626.1	8,937.7	62.1	65.0	88.76	-7,457.2	-1,205.5	485.0	358.4	126.62	3.830	
16,625.0	8,947.8	16,651.1	8,937.7	62.2	65.2	88.77	-7,482.2	-1,205.7	485.0	358.0	126.98	3.820	
16,700.0	8,947.9	16,726.1	8,937.8	62.8	65.7	88.77	-7,557.2	-1,206.3	485.0	357.0	128.04	3.788	
16,720.0	8,947.9	16,746.1	8,937.9	62.9	65.9	88.77	-7,577.2	-1,206.5	485.0	356.7	128.33	3.780	
16,800.0	8,948.0	16,826.1	8,938.0	63.5	66.4	88.77	-7,657.2	-1,207.2	485.0	355.6	129.47	3.746	
16,815.0	8,948.1	16,841.1	8,938.1	63.6	66.5	88.77	-7,672.2	-1,207.4	485.0	355.3	129.68	3.740	
16,900.0	8,948.2	16,926.1	8,938.2	64.2	67.1	88.77	-7,757.2	-1,208.1	485.0	354.1	130.89	3.706	
16,910.0	8,948.2	16,936.1	8,938.2	64.3	67.2	88.77	-7,767.2	-1,208.2	485.0	354.0	131.03	3.702	
17,000.0	8,948.4	17,026.1	8,938.4	64.9	67.8	88.78	-7,857.2	-1,209.0	485.0	352.7	132.32	3.666	
17,005.0	8,948.4	17,031.1	8,938.4	65.0	67.8	88.78	-7,862.2	-1,209.1	485.0	352.6	132.39	3.664	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-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	
17,100.0	8,948.5	17,126.1	8,938.6	65.7	68.5	88.78	88.78	-7,957.2	-1,209.9	485.0	351.3	133.75	3.626	
17,195.0	8,948.7	17,221.1	8,938.8	66.4	69.2	88.78	88.78	-8,052.2	-1,210.7	485.0	349.9	135.11	3.590	
17,200.0	8,948.7	17,226.1	8,938.8	66.4	69.2	88.78	88.78	-8,057.2	-1,210.8	485.0	349.8	135.18	3.588	
17,290.0	8,948.8	17,316.1	8,939.0	67.1	69.8	88.79	88.79	-8,147.2	-1,211.6	485.0	348.6	136.47	3.554	
17,300.0	8,948.8	17,326.1	8,939.0	67.1	69.9	88.79	88.79	-8,157.2	-1,211.7	485.0	348.4	136.61	3.550	
17,385.0	8,949.0	17,411.1	8,939.1	67.8	70.5	88.79	88.79	-8,242.2	-1,212.4	485.0	347.2	137.83	3.519	
17,400.0	8,949.0	17,426.1	8,939.2	67.9	70.6	88.79	88.79	-8,257.2	-1,212.6	485.0	347.0	138.05	3.513	
17,480.0	8,949.1	17,506.1	8,939.3	68.4	71.1	88.79	88.79	-8,337.2	-1,213.3	485.0	345.8	139.20	3.484	
17,500.0	8,949.2	17,526.1	8,939.4	68.6	71.3	88.79	88.79	-8,357.2	-1,213.5	485.0	345.5	139.49	3.477	
17,575.0	8,949.3	17,601.1	8,939.5	69.1	71.8	88.80	88.80	-8,432.2	-1,214.1	485.0	344.5	140.57	3.451	
17,600.0	8,949.3	17,626.1	8,939.5	69.3	72.0	88.80	88.80	-8,457.2	-1,214.3	485.0	344.1	140.93	3.442	
17,670.0	8,949.4	17,696.1	8,939.7	69.8	72.5	88.80	88.80	-8,527.2	-1,215.0	485.0	343.1	141.94	3.417	
17,700.0	8,949.5	17,726.1	8,939.7	70.1	72.7	88.80	88.80	-8,557.2	-1,215.2	485.0	342.7	142.37	3.407	
17,765.0	8,949.6	17,791.1	8,939.9	70.5	73.2	88.80	88.80	-8,622.2	-1,215.8	485.0	341.7	143.31	3.385	
17,800.0	8,949.7	17,826.1	8,939.9	70.8	73.4	88.80	88.80	-8,657.2	-1,216.1	485.0	341.2	143.81	3.373	
17,860.0	8,949.8	17,886.1	8,940.0	71.2	73.8	88.80	88.80	-8,717.2	-1,216.7	485.0	340.4	144.68	3.352	
17,900.0	8,949.8	17,926.1	8,940.1	71.5	74.1	88.81	88.81	-8,757.2	-1,217.0	485.0	339.8	145.26	3.339	
17,955.0	8,949.9	17,981.1	8,940.2	71.9	74.5	88.81	88.81	-8,812.2	-1,217.5	485.0	339.0	146.05	3.321	
18,000.0	8,950.0	18,026.1	8,940.3	72.3	74.8	88.81	88.81	-8,857.2	-1,217.9	485.0	338.3	146.70	3.306	
18,050.0	8,950.1	18,076.1	8,940.4	72.6	75.2	88.81	88.81	-8,907.2	-1,218.3	485.0	337.6	147.43	3.290	
18,100.0	8,950.1	18,126.1	8,940.5	73.0	75.5	88.81	88.81	-8,957.2	-1,218.8	485.0	336.9	148.15	3.274	
18,145.0	8,950.2	18,171.1	8,940.6	73.3	75.8	88.81	88.81	-9,002.2	-1,219.2	485.0	336.2	148.80	3.260	
18,200.0	8,950.3	18,226.1	8,940.7	73.7	76.2	88.82	88.82	-9,057.2	-1,219.7	485.0	335.4	149.60	3.242	
18,240.0	8,950.4	18,266.1	8,940.8	74.0	76.5	88.82	88.82	-9,097.2	-1,220.0	485.0	334.9	150.18	3.230	
18,300.0	8,950.5	18,326.1	8,940.9	74.5	76.9	88.82	88.82	-9,157.2	-1,220.6	485.0	334.0	151.05	3.211	
18,335.0	8,950.5	18,361.1	8,940.9	74.7	77.2	88.82	88.82	-9,192.2	-1,220.9	485.0	333.5	151.56	3.200	
18,400.0	8,950.6	18,426.1	8,941.1	75.2	77.7	88.82	88.82	-9,257.2	-1,221.5	485.0	332.5	152.51	3.180	
18,430.0	8,950.7	18,456.1	8,941.1	75.4	77.9	88.82	88.82	-9,287.2	-1,221.7	485.0	332.1	152.94	3.171	
18,500.0	8,950.8	18,526.1	8,941.2	75.9	78.4	88.83	88.83	-9,357.2	-1,222.4	485.0	331.1	153.96	3.150	
18,525.0	8,950.8	18,551.1	8,941.3	76.1	78.5	88.83	88.83	-9,382.2	-1,222.6	485.0	330.7	154.32	3.143	
18,600.0	8,950.9	18,626.1	8,941.4	76.7	79.1	88.83	88.83	-9,457.2	-1,223.2	485.0	329.6	155.42	3.121	
18,620.0	8,951.0	18,646.1	8,941.5	76.8	79.2	88.83	88.83	-9,477.2	-1,223.4	485.0	329.3	155.71	3.115	
18,700.0	8,951.1	18,726.1	8,941.6	77.4	79.8	88.83	88.83	-9,557.2	-1,224.1	485.0	328.2	156.87	3.092	
18,715.0	8,951.1	18,741.1	8,941.6	77.5	79.9	88.83	88.83	-9,572.2	-1,224.3	485.0	327.9	157.09	3.088	
18,800.0	8,951.3	18,826.1	8,941.8	78.1	80.5	88.83	88.83	-9,657.2	-1,225.0	485.0	326.7	158.33	3.063	
18,810.0	8,951.3	18,836.1	8,941.8	78.2	80.6	88.84	88.84	-9,667.2	-1,225.1	485.0	326.6	158.48	3.061	
18,900.0	8,951.4	18,926.1	8,942.0	78.9	81.2	88.84	88.84	-9,757.1	-1,225.9	485.0	325.3	159.79	3.035	
18,905.0	8,951.4	18,931.1	8,942.0	78.9	81.3	88.84	88.84	-9,762.1	-1,226.0	485.0	325.2	159.86	3.034	
19,000.0	8,951.6	19,026.1	8,942.2	79.6	81.9	88.84	88.84	-9,857.1	-1,226.8	485.0	323.8	161.25	3.008	
19,095.0	8,951.7	19,121.1	8,942.4	80.3	82.6	88.84	88.84	-9,952.1	-1,227.6	485.0	322.4	162.64	2.982	
19,100.0	8,951.8	19,126.1	8,942.4	80.4	82.7	88.84	88.84	-9,957.1	-1,227.7	485.0	322.3	162.71	2.981	
19,190.0	8,951.9	19,216.1	8,942.5	81.0	83.3	88.85	88.85	-10,047.1	-1,228.5	485.0	321.0	164.03	2.957	
19,200.0	8,951.9	19,226.1	8,942.6	81.1	83.4	88.85	88.85	-10,057.1	-1,228.6	485.0	320.9	164.18	2.954	
19,285.0	8,952.1	19,311.1	8,942.7	81.7	84.0	88.85	88.85	-10,142.1	-1,229.3	485.0	319.6	165.42	2.932	
19,300.0	8,952.1	19,326.1	8,942.8	81.8	84.1	88.85	88.85	-10,157.1	-1,229.5	485.0	319.4	165.64	2.928	
19,380.0	8,952.2	19,406.1	8,942.9	82.4	84.7	88.85	88.85	-10,237.1	-1,230.2	485.0	318.2	166.82	2.908	
19,400.0	8,952.2	19,426.1	8,942.9	82.6	84.8	88.85	88.85	-10,257.1	-1,230.4	485.0	317.9	167.11	2.903	
19,475.0	8,952.4	19,501.1	8,943.1	83.1	85.4	88.86	88.86	-10,332.1	-1,231.0	485.0	316.8	168.21	2.884	
19,500.0	8,952.4	19,526.1	8,943.1	83.3	85.5	88.86	88.86	-10,357.1	-1,231.2	485.0	316.5	168.58	2.877	
19,570.0	8,952.5	19,596.1	8,943.3	83.8	86.0	88.86	88.86	-10,427.1	-1,231.9	485.0	315.4	169.60	2.860	
19,600.0	8,952.6	19,626.1	8,943.3	84.1	86.3	88.86	88.86	-10,457.1	-1,232.1	485.0	315.0	170.04	2.852	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation Factor		
19,665.0	8,952.7	19,691.1	8,943.4	84.6	86.7	88.86	-10,522.1	-1,232.7	485.0	314.1	171.00	2.837	
19,700.0	8,952.7	19,726.1	8,943.5	84.8	87.0	88.86	-10,557.1	-1,233.0	485.0	313.5	171.51	2.828	
19,760.0	8,952.8	19,786.1	8,943.6	85.3	87.4	88.87	-10,617.1	-1,233.6	485.0	312.7	172.39	2.814	
19,800.0	8,952.9	19,826.1	8,943.7	85.6	87.7	88.87	-10,657.1	-1,233.9	485.1	312.1	172.98	2.804	
19,855.0	8,953.0	19,881.1	8,943.8	86.0	88.1	88.87	-10,712.1	-1,234.4	485.1	311.3	173.79	2.791	
19,900.0	8,953.0	19,926.1	8,943.9	86.3	88.4	88.87	-10,757.1	-1,234.8	485.1	310.6	174.45	2.780	
19,950.0	8,953.1	19,976.1	8,944.0	86.7	88.8	88.87	-10,807.1	-1,235.2	485.1	309.9	175.19	2.769	
20,000.0	8,953.2	20,026.1	8,944.1	87.0	89.2	88.87	-10,857.1	-1,235.7	485.1	309.1	175.93	2.757	
20,045.0	8,953.3	20,071.1	8,944.2	87.4	89.5	88.87	-10,902.1	-1,236.1	485.1	308.5	176.59	2.747	
20,100.0	8,953.4	20,126.1	8,944.3	87.8	89.9	88.88	-10,957.1	-1,236.6	485.1	307.7	177.40	2.734	
20,140.0	8,953.4	20,166.1	8,944.3	88.1	90.2	88.88	-10,997.1	-1,236.9	485.1	307.1	177.99	2.725	
20,200.0	8,953.5	20,226.1	8,944.4	88.5	90.6	88.88	-11,057.1	-1,237.5	485.1	306.2	178.87	2.712	
20,235.0	8,953.6	20,261.1	8,944.5	88.8	90.9	88.88	-11,092.1	-1,237.8	485.1	305.7	179.39	2.704	
20,300.0	8,953.7	20,326.1	8,944.6	89.3	91.3	88.88	-11,157.1	-1,238.4	485.1	304.7	180.35	2.690	
20,330.0	8,953.7	20,356.1	8,944.7	89.5	91.6	88.88	-11,187.1	-1,238.6	485.1	304.3	180.79	2.683	
20,400.0	8,953.9	20,426.1	8,944.8	90.0	92.1	88.89	-11,257.1	-1,239.2	485.1	303.2	181.82	2.668	
20,425.0	8,953.9	20,451.1	8,944.9	90.2	92.2	88.89	-11,282.1	-1,239.5	485.1	302.9	182.19	2.662	
20,500.0	8,954.0	20,526.1	8,945.0	90.8	92.8	88.89	-11,357.1	-1,240.1	485.1	301.8	183.30	2.646	
20,520.0	8,954.1	20,546.1	8,945.1	90.9	92.9	88.89	-11,377.1	-1,240.3	485.1	301.5	183.59	2.642	
20,600.0	8,954.2	20,626.1	8,945.2	91.5	93.5	88.89	-11,457.1	-1,241.0	485.1	300.3	184.78	2.625	
20,615.0	8,954.2	20,641.1	8,945.2	91.6	93.6	88.89	-11,472.1	-1,241.2	485.1	300.1	185.00	2.622	
20,700.0	8,954.3	20,726.1	8,945.4	92.3	94.2	88.90	-11,557.1	-1,241.9	485.1	298.8	186.25	2.604	
20,710.0	8,954.4	20,736.1	8,945.4	92.3	94.3	88.90	-11,567.1	-1,242.0	485.1	298.7	186.40	2.602	
20,800.0	8,954.5	20,826.1	8,945.6	93.0	95.0	88.90	-11,657.1	-1,242.8	485.1	297.3	187.73	2.584	
20,805.0	8,954.5	20,831.1	8,945.6	93.0	95.0	88.90	-11,662.1	-1,242.8	485.1	297.3	187.81	2.583	
20,900.0	8,954.7	20,926.1	8,945.8	93.7	95.7	88.90	-11,757.1	-1,243.7	485.1	295.8	189.21	2.564	
20,995.0	8,954.8	21,021.1	8,945.9	94.5	96.4	88.90	-11,852.1	-1,244.5	485.1	294.4	190.62	2.545	
21,000.0	8,954.8	21,026.1	8,946.0	94.5	96.4	88.91	-11,857.1	-1,244.6	485.1	294.4	190.69	2.544	
21,090.0	8,955.0	21,116.1	8,946.1	95.2	97.1	88.91	-11,947.1	-1,245.4	485.1	293.0	192.03	2.526	
21,100.0	8,955.0	21,126.1	8,946.1	95.2	97.2	88.91	-11,957.1	-1,245.5	485.1	292.9	192.17	2.524	
21,185.0	8,955.1	21,211.1	8,946.3	95.9	97.8	88.91	-12,042.1	-1,246.2	485.1	291.6	193.43	2.508	
21,200.0	8,955.1	21,226.1	8,946.3	96.0	97.9	88.91	-12,057.1	-1,246.4	485.1	291.4	193.66	2.505	
21,280.0	8,955.3	21,306.1	8,946.5	96.6	98.5	88.91	-12,137.0	-1,247.1	485.1	290.2	194.84	2.490	
21,300.0	8,955.3	21,326.1	8,946.5	96.7	98.6	88.91	-12,157.0	-1,247.2	485.1	289.9	195.14	2.486	
21,375.0	8,955.4	21,401.1	8,946.7	97.3	99.2	88.92	-12,232.0	-1,247.9	485.1	288.8	196.25	2.472	
21,400.0	8,955.5	21,426.1	8,946.7	97.5	99.4	88.92	-12,257.0	-1,248.1	485.1	288.4	196.62	2.467	
21,470.0	8,955.6	21,496.1	8,946.8	98.0	99.9	88.92	-12,327.0	-1,248.8	485.1	287.4	197.66	2.454	
21,500.0	8,955.6	21,526.1	8,946.9	98.2	100.1	88.92	-12,357.0	-1,249.0	485.1	287.0	198.11	2.449	
21,565.0	8,955.7	21,591.1	8,947.0	98.7	100.6	88.92	-12,422.0	-1,249.6	485.1	286.0	199.07	2.437	
21,600.0	8,955.8	21,626.1	8,947.1	99.0	100.8	88.92	-12,457.0	-1,249.9	485.1	285.5	199.59	2.430	
21,660.0	8,955.9	21,686.1	8,947.2	99.4	101.3	88.93	-12,517.0	-1,250.4	485.1	284.6	200.48	2.420	
21,700.0	8,956.0	21,726.1	8,947.3	99.7	101.6	88.93	-12,557.0	-1,250.8	485.1	284.0	201.08	2.412	
21,755.0	8,956.0	21,781.1	8,947.4	100.1	102.0	88.93	-12,612.0	-1,251.3	485.1	283.2	201.89	2.403	
21,800.0	8,956.1	21,826.1	8,947.5	100.5	102.3	88.93	-12,657.0	-1,251.7	485.1	282.5	202.56	2.395	
21,850.0	8,956.2	21,876.1	8,947.6	100.9	102.7	88.93	-12,707.0	-1,252.1	485.1	281.8	203.30	2.386	
21,900.0	8,956.3	21,926.1	8,947.7	101.2	103.0	88.93	-12,757.0	-1,252.6	485.1	281.0	204.05	2.377	
21,945.0	8,956.4	21,971.1	8,947.7	101.6	103.4	88.94	-12,802.0	-1,253.0	485.1	280.4	204.72	2.369	
22,000.0	8,956.4	22,026.1	8,947.8	102.0	103.8	88.94	-12,857.0	-1,253.5	485.1	279.5	205.54	2.360	
22,040.0	8,956.5	22,066.1	8,947.9	102.3	104.1	88.94	-12,897.0	-1,253.8	485.1	278.9	206.13	2.353	
22,100.0	8,956.6	22,126.1	8,948.0	102.7	104.5	88.94	-12,957.0	-1,254.4	485.1	278.0	207.02	2.343	
22,135.0	8,956.7	22,161.1	8,948.1	103.0	104.8	88.94	-12,992.0	-1,254.7	485.1	277.5	207.54	2.337	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8487-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
22,200.0	8,956.8	22,226.1	8,948.2	103.5	105.2	88.94	-13,057.0	-1,255.2	485.1	276.6	208.51	2.326	
22,230.0	8,956.8	22,256.1	8,948.3	103.7	105.5	88.94	-13,087.0	-1,255.5	485.1	276.1	208.96	2.321	
22,300.0	8,956.9	22,326.1	8,948.4	104.2	106.0	88.95	-13,157.0	-1,256.1	485.1	275.1	210.00	2.310	
22,325.0	8,957.0	22,351.1	8,948.5	104.4	106.2	88.95	-13,182.0	-1,256.4	485.1	274.7	210.37	2.306	
22,400.0	8,957.1	22,426.1	8,948.6	105.0	106.7	88.95	-13,257.0	-1,257.0	485.1	273.6	211.49	2.294	
22,420.0	8,957.1	22,446.1	8,948.6	105.1	106.9	88.95	-13,277.0	-1,257.2	485.1	273.3	211.79	2.290	
22,500.0	8,957.2	22,526.1	8,948.8	105.7	107.5	88.95	-13,357.0	-1,257.9	485.1	272.1	212.98	2.278	
22,515.0	8,957.3	22,541.1	8,948.8	105.8	107.6	88.95	-13,372.0	-1,258.0	485.1	271.9	213.20	2.275	
22,600.0	8,957.4	22,626.1	8,949.0	106.5	108.2	88.96	-13,457.0	-1,258.8	485.1	270.6	214.47	2.262	
22,610.0	8,957.4	22,636.1	8,949.0	106.6	108.3	88.96	-13,467.0	-1,258.9	485.1	270.5	214.62	2.260	
22,700.0	8,957.6	22,726.1	8,949.2	107.2	108.9	88.96	-13,557.0	-1,259.7	485.1	269.1	215.96	2.246	
22,705.0	8,957.6	22,731.1	8,949.2	107.3	109.0	88.96	-13,562.0	-1,259.7	485.1	269.0	216.04	2.245	
22,800.0	8,957.7	22,826.1	8,949.4	108.0	109.7	88.96	-13,657.0	-1,260.6	485.1	267.6	217.45	2.231	
22,895.0	8,957.9	22,921.1	8,949.5	108.7	110.4	88.97	-13,752.0	-1,261.4	485.1	266.2	218.87	2.216	
22,900.0	8,957.9	22,926.1	8,949.5	108.7	110.4	88.97	-13,757.0	-1,261.5	485.1	266.1	218.95	2.216	
22,990.0	8,958.0	23,016.1	8,949.7	109.4	111.1	88.97	-13,847.0	-1,262.3	485.1	264.8	220.29	2.202	
23,000.0	8,958.1	23,026.1	8,949.7	109.5	111.2	88.97	-13,857.0	-1,262.4	485.1	264.6	220.44	2.201	
23,085.0	8,958.2	23,111.1	8,949.9	110.1	111.8	88.97	-13,942.0	-1,263.1	485.1	263.4	221.71	2.188	
23,100.0	8,958.2	23,126.1	8,949.9	110.2	111.9	88.97	-13,957.0	-1,263.2	485.1	263.1	221.93	2.186	
23,180.0	8,958.3	23,206.1	8,950.1	110.8	112.5	88.97	-14,037.0	-1,264.0	485.1	262.0	223.13	2.174	
23,200.0	8,958.4	23,226.1	8,950.1	111.0	112.6	88.98	-14,057.0	-1,264.1	485.1	261.7	223.42	2.171	
23,275.0	8,958.5	23,301.1	8,950.2	111.5	113.2	88.98	-14,132.0	-1,264.8	485.1	260.5	224.55	2.160	
23,300.0	8,958.5	23,326.1	8,950.3	111.7	113.4	88.98	-14,157.0	-1,265.0	485.1	260.2	224.92	2.157	
23,370.0	8,958.7	23,396.1	8,950.4	112.3	113.9	88.98	-14,227.0	-1,265.6	485.1	259.1	225.96	2.147	
23,400.0	8,958.7	23,426.1	8,950.5	112.5	114.1	88.98	-14,257.0	-1,265.9	485.1	258.7	226.41	2.142	
23,465.0	8,958.8	23,491.1	8,950.6	113.0	114.6	88.98	-14,322.0	-1,266.5	485.1	257.7	227.38	2.133	
23,500.0	8,958.9	23,526.1	8,950.7	113.2	114.9	88.99	-14,357.0	-1,266.8	485.1	257.2	227.91	2.128	
23,560.0	8,959.0	23,586.1	8,950.8	113.7	115.3	88.99	-14,417.0	-1,267.3	485.1	256.3	228.81	2.120	
23,600.0	8,959.0	23,626.1	8,950.9	114.0	115.6	88.99	-14,457.0	-1,267.7	485.1	255.7	229.40	2.115	
23,655.0	8,959.1	23,681.1	8,951.0	114.4	116.0	88.99	-14,512.0	-1,268.2	485.1	254.9	230.23	2.107	
23,700.0	8,959.2	23,726.1	8,951.1	114.7	116.3	88.99	-14,556.9	-1,268.6	485.1	254.2	230.90	2.101	
23,750.0	8,959.3	23,776.1	8,951.1	115.1	116.7	88.99	-14,606.9	-1,269.0	485.1	253.4	231.65	2.094	
23,800.0	8,959.3	23,826.1	8,951.2	115.5	117.1	88.99	-14,656.9	-1,269.5	485.1	252.7	232.40	2.087	
23,845.0	8,959.4	23,871.1	8,951.3	115.8	117.4	89.00	-14,701.9	-1,269.9	485.1	252.0	233.07	2.081	
23,900.0	8,959.5	23,926.1	8,951.4	116.3	117.8	89.00	-14,756.9	-1,270.4	485.1	251.2	233.89	2.074	
23,940.0	8,959.6	23,966.1	8,951.5	116.6	118.1	89.00	-14,796.9	-1,270.7	485.1	250.6	234.49	2.069	
24,000.0	8,959.7	24,026.1	8,951.6	117.0	118.6	89.00	-14,856.9	-1,271.2	485.1	249.7	235.39	2.061	
24,035.0	8,959.7	24,061.1	8,951.7	117.3	118.8	89.00	-14,891.9	-1,271.6	485.1	249.2	235.91	2.056	
24,072.6	8,959.8	24,098.7	8,951.8	117.5	119.1	89.00	-14,929.5	-1,271.9	485.1	248.6	236.47	2.051	
24,100.0	8,959.8	24,126.1	8,951.8	117.8	119.3	89.00	-14,956.9	-1,272.1	485.1	248.2	236.88	2.048	
24,130.0	8,959.9	24,156.1	8,951.9	118.0	119.5	89.01	-14,986.9	-1,272.4	485.1	247.8	237.33	2.044	
24,202.6	8,960.0	24,228.7	8,952.0	118.5	120.1	89.01	-15,059.5	-1,273.1	485.1	246.7	238.42	2.035 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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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)			
0.0	0.0	0.0	0.0	3.0	3.0	11.09	150.5	29.5	153.4				
95.0	95.0	91.0	91.0	3.0	3.0	11.09	150.5	29.5	153.4	147.3	6.03	25.413	
100.0	100.0	96.0	96.0	3.0	3.0	11.09	150.5	29.5	153.4	147.3	6.04	25.393	
190.0	190.0	186.0	186.0	3.1	3.1	11.09	150.5	29.5	153.4	147.1	6.25	24.533	
200.0	200.0	196.0	196.0	3.1	3.1	11.09	150.5	29.5	153.4	147.1	6.29	24.398	
285.0	285.0	281.0	281.0	3.3	3.2	11.09	150.5	29.5	153.4	146.9	6.50	23.611	
300.0	300.0	296.0	296.0	3.3	3.3	11.09	150.5	29.5	153.4	146.8	6.54	23.461	
380.0	380.0	376.0	376.0	3.4	3.4	11.09	150.5	29.5	153.4	146.6	6.73	22.781	
400.0	400.0	396.0	396.0	3.4	3.4	11.09	150.5	29.5	153.4	146.6	6.78	22.605	
475.0	475.0	471.0	471.0	3.5	3.5	11.09	150.5	29.5	153.4	146.4	6.97	22.014	
500.0	500.0	496.0	496.0	3.5	3.5	11.09	150.5	29.5	153.4	146.3	7.03	21.814	
570.0	570.0	566.0	566.0	3.6	3.6	11.09	150.5	29.5	153.4	146.2	7.20	21.303	
600.0	600.0	596.0	596.0	3.6	3.6	11.09	150.5	29.5	153.4	146.1	7.27	21.083	
665.0	665.0	661.0	661.0	3.7	3.7	11.09	150.5	29.5	153.4	145.9	7.43	20.640	
700.0	700.0	696.0	696.0	3.8	3.8	11.09	150.5	29.5	153.4	145.8	7.52	20.403	
760.0	760.0	756.0	756.0	3.8	3.8	11.09	150.5	29.5	153.4	145.7	7.66	20.021	
800.0	800.0	796.0	796.0	3.9	3.9	11.09	150.5	29.5	153.4	145.6	7.76	19.769	
855.0	855.0	851.0	851.0	4.0	3.9	11.09	150.5	29.5	153.4	145.5	7.89	19.441	
900.0	900.0	896.0	896.0	4.0	4.0	11.09	150.5	29.5	153.4	145.4	8.00	19.176	
950.0	950.0	946.0	946.0	4.1	4.1	11.09	150.5	29.5	153.4	145.2	8.12	18.896	
1,000.0	1,000.0	996.0	996.0	4.1	4.1	11.09	150.5	29.5	153.4	145.1	8.24	18.620	
1,045.0	1,045.0	1,041.0	1,041.0	4.2	4.2	11.09	150.5	29.5	153.4	145.0	8.34	18.383	
1,100.0	1,100.0	1,096.0	1,096.0	4.2	4.2	11.09	150.5	29.5	153.4	144.9	8.47	18.098	
1,140.0	1,140.0	1,136.0	1,136.0	4.3	4.3	11.09	150.5	29.5	153.4	144.8	8.57	17.899	
1,200.0	1,200.0	1,196.0	1,196.0	4.4	4.4	11.09	150.5	29.5	153.4	144.7	8.71	17.606	
1,235.0	1,235.0	1,231.0	1,231.0	4.4	4.4	11.09	150.5	29.5	153.4	144.6	8.79	17.442	
1,300.0	1,300.0	1,296.0	1,296.0	4.5	4.5	11.09	150.5	29.5	153.4	144.4	8.95	17.142	
1,330.0	1,330.0	1,326.0	1,326.0	4.5	4.5	11.09	150.5	29.5	153.4	144.3	9.02	17.009	
1,400.0	1,400.0	1,396.0	1,396.0	4.6	4.6	11.09	150.5	29.5	153.4	144.2	9.18	16.703	
1,425.0	1,425.0	1,421.0	1,421.0	4.6	4.6	11.09	150.5	29.5	153.4	144.1	9.24	16.598	
1,500.0	1,500.0	1,496.0	1,496.0	4.7	4.7	11.09	150.5	29.5	153.4	143.9	9.42	16.288	
1,506.8	1,506.8	1,502.7	1,502.7	4.7	4.7	71.92	150.5	29.5	153.4	143.9	9.43	16.259 CC	
1,520.0	1,520.0	1,515.4	1,515.4	4.7	4.7	71.95	150.5	29.5	153.4	143.9	9.47	16.202 ES	
1,600.0	1,600.0	1,592.0	1,592.0	4.9	4.9	72.83	151.5	30.6	154.1	144.4	9.67	15.935	
1,615.0	1,615.0	1,606.4	1,606.4	4.9	4.9	73.13	151.8	31.0	154.3	144.6	9.72	15.877	
1,700.0	1,699.8	1,687.5	1,687.4	5.1	5.1	75.56	154.5	34.1	156.6	146.6	10.02	15.625	
1,710.0	1,709.8	1,697.0	1,696.9	5.1	5.1	75.92	154.9	34.6	157.0	146.9	10.06	15.607	
1,800.0	1,799.5	1,782.1	1,781.6	5.3	5.3	79.84	159.6	40.0	161.7	151.3	10.38	15.582 SF	
1,805.0	1,804.4	1,786.8	1,786.3	5.3	5.3	80.09	159.9	40.4	162.1	151.7	10.40	15.588	
1,900.0	1,898.7	1,875.4	1,874.3	5.6	5.6	85.24	166.6	48.1	170.5	159.7	10.74	15.871	
1,995.0	1,992.5	1,962.4	1,960.4	5.9	5.9	90.90	174.8	57.7	183.1	172.0	11.10	16.496	
2,000.0	1,997.5	1,967.0	1,964.9	5.9	5.9	91.20	175.3	58.2	183.9	172.8	11.12	16.539	
2,090.0	2,085.8	2,047.7	2,044.4	6.2	6.1	96.58	184.6	69.0	200.8	189.3	11.49	17.479	
2,100.0	2,095.6	2,056.6	2,053.1	6.3	6.2	97.16	185.7	70.3	203.0	191.4	11.53	17.603	
2,185.0	2,178.5	2,130.8	2,125.7	6.6	6.4	101.89	195.7	81.8	223.9	212.0	11.91	18.805	
2,200.1	2,193.1	2,143.8	2,138.4	6.6	6.5	102.68	197.6	84.0	228.1	216.1	11.97	19.046	
2,280.0	2,270.7	2,213.0	2,205.7	6.9	6.7	106.94	208.2	96.3	252.2	239.8	12.35	20.419	
2,300.0	2,290.1	2,231.4	2,223.5	6.9	6.8	107.96	211.1	99.6	258.6	246.2	12.45	20.769	
2,375.0	2,362.9	2,300.5	2,290.6	7.2	7.0	111.37	222.0	112.3	283.2	270.4	12.84	22.065	
2,400.0	2,387.1	2,323.6	2,312.9	7.3	7.1	112.38	225.7	116.5	291.6	278.7	12.97	22.486	
2,470.0	2,455.0	2,388.1	2,375.5	7.5	7.3	114.93	235.9	128.3	315.5	302.2	13.35	23.633	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.0	2,484.1	2,415.7	2,402.3	7.6	7.4	115.92	240.3	133.4	325.9	312.4	13.52	24.110	
2,565.0	2,547.2	2,475.6	2,460.5	7.8	7.6	117.85	249.7	144.4	348.7	334.8	13.89	25.106	
2,600.0	2,581.2	2,507.8	2,491.7	8.0	7.7	118.80	254.8	150.3	361.2	347.1	14.09	25.626	
2,660.0	2,639.4	2,563.1	2,545.4	8.2	7.9	120.28	263.6	160.4	382.6	368.2	14.45	26.478	
2,700.0	2,678.2	2,600.0	2,581.2	8.4	8.0	121.17	269.4	167.1	397.1	382.4	14.69	27.028	
2,755.0	2,731.6	2,650.7	2,630.3	8.6	8.2	122.31	277.4	176.4	417.0	402.0	15.03	27.748	
2,800.0	2,775.2	2,692.1	2,670.6	8.7	8.4	123.16	284.0	184.0	433.5	418.2	15.31	28.318	
2,850.0	2,823.7	2,738.2	2,715.3	8.9	8.5	124.04	291.3	192.4	451.8	436.2	15.62	28.921	
2,900.0	2,872.3	2,784.3	2,760.0	9.1	8.7	124.85	298.6	200.9	470.3	454.3	15.94	29.502	
2,945.0	2,915.9	2,825.7	2,800.2	9.3	8.9	125.52	305.1	208.5	487.0	470.7	16.23	30.000	
3,000.0	2,969.3	2,876.4	2,849.4	9.5	9.1	126.29	313.1	217.8	507.4	490.8	16.59	30.586	
3,040.0	3,008.1	2,913.3	2,885.1	9.7	9.2	126.81	319.0	224.5	522.3	505.5	16.85	30.994	
3,100.0	3,066.3	2,968.6	2,938.8	9.9	9.4	127.54	327.7	234.6	544.8	527.5	17.25	31.580	
3,135.0	3,100.3	3,000.8	2,970.1	10.1	9.6	127.93	332.8	240.5	557.9	540.4	17.48	31.908	
3,200.0	3,163.3	3,060.7	3,028.2	10.4	9.8	128.63	342.3	251.5	582.3	564.4	17.92	32.491	
3,230.0	3,192.5	3,088.3	3,055.0	10.5	9.9	128.93	346.7	256.6	593.6	575.5	18.13	32.749	
3,300.0	3,260.4	3,152.8	3,117.6	10.8	10.2	129.58	356.9	268.4	620.0	601.4	18.60	33.327	
3,325.0	3,284.6	3,175.9	3,139.9	10.9	10.3	129.81	360.5	272.6	629.5	610.7	18.78	33.525	
3,400.0	3,357.4	3,245.0	3,207.0	11.2	10.6	130.43	371.4	285.2	657.9	638.6	19.30	34.094	
3,420.0	3,376.8	3,263.4	3,224.9	11.3	10.7	130.59	374.4	288.6	665.4	646.0	19.43	34.240	
3,500.0	3,454.4	3,337.1	3,296.4	11.7	11.0	131.19	386.0	302.1	695.8	675.8	19.99	34.800	
3,515.0	3,469.0	3,350.9	3,309.8	11.7	11.0	131.30	388.2	304.6	701.5	681.4	20.10	34.901	
3,600.0	3,551.5	3,429.3	3,385.8	12.1	11.4	131.87	400.6	319.0	733.9	713.2	20.70	35.450	
3,610.0	3,561.2	3,438.5	3,394.7	12.1	11.4	131.93	402.1	320.7	737.7	716.9	20.77	35.512	
3,700.0	3,648.5	3,521.4	3,475.2	12.5	11.8	132.48	415.2	335.9	772.0	750.6	21.41	36.050	
3,705.0	3,653.3	3,526.0	3,479.7	12.6	11.8	132.51	415.9	336.7	773.9	752.5	21.45	36.079	
3,800.0	3,745.5	3,613.6	3,564.6	13.0	12.2	133.04	429.8	352.7	810.2	788.1	22.13	36.605	
3,895.0	3,837.7	3,701.1	3,649.5	13.4	12.6	133.52	443.6	368.8	846.6	823.7	22.82	37.093	
3,900.0	3,842.5	3,705.7	3,654.0	13.4	12.6	133.54	444.3	369.6	848.5	825.6	22.86	37.118	
3,990.0	3,929.9	3,788.6	3,734.5	13.8	13.0	133.96	457.5	384.8	882.9	859.4	23.51	37.548	
4,000.0	3,939.6	3,797.8	3,743.4	13.9	13.0	134.01	458.9	386.5	886.8	863.2	23.59	37.594	
4,085.0	4,022.0	3,876.2	3,819.4	14.3	13.4	134.37	471.3	400.8	919.4	895.2	24.21	37.972	
4,100.0	4,036.6	3,890.0	3,832.8	14.3	13.4	134.43	473.5	403.4	925.1	900.8	24.32	38.037	
4,180.0	4,114.2	3,963.7	3,904.3	14.7	13.7	134.75	485.1	416.9	955.8	930.9	24.91	38.368	
4,200.0	4,133.6	3,982.1	3,922.2	14.8	13.8	134.82	488.1	420.2	963.5	938.5	25.06	38.449	
4,275.0	4,206.4	4,051.2	3,989.3	15.2	14.1	135.10	499.0	432.9	992.4	966.7	25.62	38.739	
4,300.0	4,230.7	4,074.3	4,011.6	15.3	14.3	135.18	502.6	437.1	1,002.0	976.2	25.80	38.833	
4,370.0	4,298.6	4,138.8	4,074.2	15.6	14.5	135.42	512.8	448.9	1,028.9	1,002.6	26.32	39.086	
4,400.0	4,327.7	4,166.4	4,101.0	15.7	14.7	135.52	517.2	454.0	1,040.4	1,013.9	26.55	39.191	
4,465.0	4,390.8	4,226.3	4,159.1	16.0	14.9	135.72	526.7	464.9	1,065.4	1,038.4	27.03	39.412	
4,500.0	4,424.7	4,258.5	4,190.4	16.2	15.1	135.83	531.8	470.8	1,078.9	1,051.6	27.30	39.527	
4,560.0	4,482.9	4,313.8	4,244.1	16.5	15.3	136.00	540.5	481.0	1,102.0	1,074.3	27.74	39.729	
4,578.5	4,500.9	4,330.8	4,260.6	16.5	15.4	136.06	543.2	484.1	1,109.1	1,081.3	27.87	39.790	
4,600.0	4,521.8	4,350.7	4,279.8	16.6	15.5	136.24	546.4	487.7	1,117.4	1,089.4	28.03	39.866	
4,655.0	4,575.3	4,401.7	4,329.3	16.9	15.8	136.66	554.4	497.1	1,137.9	1,109.5	28.45	40.002	
4,700.0	4,619.4	4,443.6	4,370.0	17.1	15.9	136.96	561.1	504.7	1,154.2	1,125.5	28.79	40.091	
4,750.0	4,668.4	4,490.4	4,415.4	17.4	16.2	137.25	568.5	513.3	1,171.8	1,142.6	29.17	40.177	
4,800.0	4,717.7	4,537.5	4,461.1	17.6	16.4	137.50	575.9	521.9	1,188.7	1,159.2	29.54	40.239	
4,845.0	4,762.1	4,580.0	4,502.3	17.8	16.6	137.69	582.6	529.7	1,203.5	1,173.6	29.87	40.285	
4,900.0	4,816.5	4,632.2	4,552.9	18.0	16.8	137.88	590.9	539.3	1,220.8	1,190.5	30.28	40.316	
4,940.0	4,856.2	4,670.3	4,589.9	18.2	17.0	137.99	596.9	546.2	1,232.9	1,202.3	30.57	40.333	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)			
5,000.0	4,915.9	4,727.6	4,645.5	18.5	17.3	138.11	606.0	556.7	1,250.4	1,219.4	30.99	40.341	
5,035.0	4,950.7	4,764.7	4,681.5	18.6	17.4	138.15	611.9	563.5	1,260.1	1,228.9	31.26	40.312	
5,100.0	5,015.6	4,867.7	4,782.0	18.9	17.9	138.10	626.8	580.8	1,276.3	1,244.3	32.03	39.843	
5,130.0	5,045.5	4,916.0	4,829.4	19.0	18.1	138.07	632.9	587.9	1,282.8	1,250.4	32.38	39.615	
5,200.0	5,115.4	5,030.2	4,941.9	19.2	18.7	137.97	645.5	602.4	1,295.2	1,262.0	33.16	39.062	
5,225.0	5,140.4	5,071.4	4,982.7	19.3	18.9	137.92	649.3	606.8	1,298.7	1,265.3	33.39	38.897	
5,278.6	5,194.0	5,160.4	5,071.0	19.3	19.2	76.98	656.1	614.8	1,304.7	1,270.8	33.86	38.534	
5,300.0	5,215.4	5,196.2	5,106.7	19.3	19.4	76.91	658.4	617.4	1,306.5	1,272.5	34.02	38.410	
5,320.0	5,235.4	5,229.6	5,140.0	19.4	19.5	76.85	660.3	619.5	1,308.0	1,273.9	34.16	38.294	
5,400.0	5,315.4	5,364.0	5,274.1	19.4	20.0	76.70	665.1	625.2	1,312.0	1,277.3	34.67	37.847	
5,415.0	5,330.4	5,389.2	5,299.4	19.4	20.1	76.69	665.6	625.7	1,312.3	1,277.6	34.75	37.766	
5,500.0	5,415.4	5,501.3	5,411.4	19.4	20.2	76.67	666.1	626.3	1,312.8	1,277.9	34.90	37.614	
5,510.0	5,425.4	5,511.3	5,421.4	19.4	20.2	76.67	666.1	626.3	1,312.8	1,277.8	34.91	37.604	
5,600.0	5,515.4	5,601.3	5,511.4	19.5	20.3	76.67	666.1	626.3	1,312.8	1,277.8	35.00	37.508	
5,605.0	5,520.4	5,606.3	5,516.4	19.5	20.3	76.67	666.1	626.3	1,312.8	1,277.7	35.00	37.503	
5,700.0	5,615.4	5,701.3	5,611.4	19.5	20.3	76.67	666.1	626.3	1,312.8	1,277.7	35.10	37.402	
5,795.0	5,710.4	5,796.3	5,706.4	19.6	20.3	76.67	666.1	626.3	1,312.8	1,277.6	35.19	37.301	
5,800.0	5,715.4	5,801.3	5,711.4	19.6	20.3	76.67	666.1	626.3	1,312.8	1,277.6	35.20	37.295	
5,890.0	5,805.4	5,891.3	5,801.4	19.6	20.4	76.67	666.1	626.3	1,312.8	1,277.5	35.29	37.200	
5,900.0	5,815.4	5,901.3	5,811.4	19.6	20.4	76.67	666.1	626.3	1,312.8	1,277.5	35.30	37.189	
5,985.0	5,900.4	5,986.3	5,896.4	19.7	20.4	76.67	666.1	626.3	1,312.8	1,277.4	35.39	37.099	
6,000.0	5,915.4	6,001.3	5,911.4	19.7	20.4	76.67	666.1	626.3	1,312.8	1,277.4	35.40	37.083	
6,080.0	5,995.4	6,081.3	5,991.4	19.7	20.5	76.67	666.1	626.3	1,312.8	1,277.3	35.48	36.998	
6,100.0	6,015.4	6,101.3	6,011.4	19.7	20.5	76.67	666.1	626.3	1,312.8	1,277.3	35.50	36.977	
6,175.0	6,090.4	6,176.3	6,086.4	19.7	20.5	76.67	666.1	626.3	1,312.8	1,277.2	35.58	36.898	
6,200.0	6,115.4	6,201.3	6,111.4	19.8	20.5	76.67	666.1	626.3	1,312.8	1,277.1	35.60	36.872	
6,270.0	6,185.4	6,271.3	6,181.4	19.8	20.6	76.67	666.1	626.3	1,312.8	1,277.1	35.67	36.798	
6,300.0	6,215.4	6,301.3	6,211.4	19.8	20.6	76.67	666.1	626.3	1,312.8	1,277.0	35.71	36.766	
6,365.0	6,280.4	6,366.3	6,276.4	19.8	20.6	76.67	666.1	626.3	1,312.8	1,277.0	35.77	36.697	
6,400.0	6,315.4	6,401.3	6,311.4	19.8	20.6	76.67	666.1	626.3	1,312.8	1,276.9	35.81	36.660	
6,460.0	6,375.4	6,461.3	6,371.4	19.9	20.6	76.67	666.1	626.3	1,312.8	1,276.9	35.87	36.597	
6,500.0	6,415.4	6,501.3	6,411.4	19.9	20.7	76.67	666.1	626.3	1,312.8	1,276.8	35.91	36.555	
6,555.0	6,470.4	6,556.3	6,466.4	19.9	20.7	76.67	666.1	626.3	1,312.8	1,276.8	35.97	36.497	
6,600.0	6,515.4	6,601.3	6,511.4	19.9	20.7	76.67	666.1	626.3	1,312.8	1,276.7	36.02	36.450	
6,650.0	6,565.4	6,651.3	6,561.4	20.0	20.7	76.67	666.1	626.3	1,312.8	1,276.7	36.07	36.397	
6,700.0	6,615.4	6,701.3	6,611.4	20.0	20.8	76.67	666.1	626.3	1,312.8	1,276.6	36.12	36.345	
6,745.0	6,660.4	6,746.3	6,656.4	20.0	20.8	76.67	666.1	626.3	1,312.8	1,276.6	36.17	36.298	
6,800.0	6,715.4	6,801.3	6,711.4	20.0	20.8	76.67	666.1	626.3	1,312.8	1,276.5	36.22	36.240	
6,840.0	6,755.4	6,841.3	6,751.4	20.1	20.8	76.67	666.1	626.3	1,312.8	1,276.5	36.27	36.198	
6,900.0	6,815.4	6,901.3	6,811.4	20.1	20.9	76.67	666.1	626.3	1,312.8	1,276.4	36.33	36.135	
6,935.0	6,850.4	6,936.3	6,846.4	20.1	20.9	76.67	666.1	626.3	1,312.8	1,276.4	36.37	36.099	
7,000.0	6,915.4	7,001.3	6,911.4	20.1	20.9	76.67	666.1	626.3	1,312.8	1,276.3	36.43	36.031	
7,030.0	6,945.4	7,031.3	6,941.4	20.1	20.9	76.67	666.1	626.3	1,312.8	1,276.3	36.47	36.000	
7,100.0	7,015.4	7,101.3	7,011.4	20.2	20.9	76.67	666.1	626.3	1,312.8	1,276.2	36.54	35.927	
7,125.0	7,040.4	7,126.3	7,036.4	20.2	21.0	76.67	666.1	626.3	1,312.8	1,276.2	36.57	35.901	
7,200.0	7,115.4	7,201.3	7,111.4	20.2	21.0	76.67	666.1	626.3	1,312.8	1,276.1	36.65	35.823	
7,220.0	7,135.4	7,221.3	7,131.4	20.2	21.0	76.67	666.1	626.3	1,312.8	1,276.1	36.67	35.802	
7,300.0	7,215.4	7,301.3	7,211.4	20.3	21.0	76.67	666.1	626.3	1,312.8	1,276.0	36.75	35.719	
7,315.0	7,230.4	7,316.3	7,226.4	20.3	21.1	76.67	666.1	626.3	1,312.8	1,276.0	36.77	35.703	
7,400.0	7,315.4	7,401.3	7,311.4	20.3	21.1	76.67	666.1	626.3	1,312.8	1,275.9	36.86	35.615	
7,410.0	7,325.4	7,411.3	7,321.4	20.3	21.1	76.67	666.1	626.3	1,312.8	1,275.9	36.87	35.605	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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						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
7,500.0	7,415.4	7,501.3	7,411.4	20.4	21.1	76.67	666.1	626.3	1,312.8	1,275.8	36.97	35.511	
7,505.0	7,420.4	7,506.3	7,416.4	20.4	21.1	76.67	666.1	626.3	1,312.8	1,275.8	36.97	35.506	
7,600.0	7,515.4	7,601.3	7,511.4	20.4	21.2	76.67	666.1	626.3	1,312.8	1,275.7	37.07	35.408	
7,695.0	7,610.4	7,696.3	7,606.4	20.5	21.2	76.67	666.1	626.3	1,312.8	1,275.6	37.18	35.310	
7,700.0	7,615.4	7,701.3	7,611.4	20.5	21.2	76.67	666.1	626.3	1,312.8	1,275.6	37.18	35.305	
7,790.0	7,705.4	7,791.3	7,701.4	20.5	21.3	76.67	666.1	626.3	1,312.8	1,275.5	37.28	35.212	
7,800.0	7,715.4	7,801.3	7,711.4	20.5	21.3	76.67	666.1	626.3	1,312.8	1,275.5	37.29	35.202	
7,885.0	7,800.4	7,886.3	7,796.4	20.6	21.3	76.67	666.1	626.3	1,312.8	1,275.4	37.38	35.115	
7,900.0	7,815.4	7,901.3	7,811.4	20.6	21.3	76.67	666.1	626.3	1,312.8	1,275.4	37.40	35.100	
7,980.0	7,895.4	7,981.3	7,891.4	20.6	21.4	76.67	666.1	626.3	1,312.8	1,275.3	37.49	35.018	
8,000.0	7,915.4	8,001.3	7,911.4	20.6	21.4	76.67	666.1	626.3	1,312.8	1,275.2	37.51	34.997	
8,075.0	7,990.4	8,076.3	7,986.4	20.7	21.4	76.67	666.1	626.3	1,312.8	1,275.2	37.59	34.921	
8,100.0	8,015.4	8,101.3	8,011.4	20.7	21.4	76.67	666.1	626.3	1,312.8	1,275.1	37.62	34.895	
8,170.0	8,085.4	8,171.3	8,081.4	20.7	21.5	76.67	666.1	626.3	1,312.8	1,275.1	37.70	34.824	
8,200.0	8,115.4	8,201.3	8,111.4	20.7	21.5	76.67	666.1	626.3	1,312.8	1,275.0	37.73	34.793	
8,265.0	8,180.4	8,266.3	8,176.4	20.7	21.5	76.67	666.1	626.3	1,312.8	1,274.9	37.80	34.727	
8,300.0	8,215.4	8,301.3	8,211.4	20.8	21.5	76.67	666.1	626.3	1,312.8	1,274.9	37.84	34.691	
8,360.0	8,275.4	8,361.3	8,271.4	20.8	21.6	76.67	666.1	626.3	1,312.8	1,274.8	37.91	34.631	
8,400.0	8,315.4	8,401.3	8,311.4	20.8	21.6	76.67	666.1	626.3	1,312.8	1,274.8	37.95	34.590	
8,447.6	8,363.0	8,448.9	8,359.0	20.8	21.6	76.67	666.1	626.3	1,312.8	1,274.8	37.99	34.557	
8,450.0	8,365.4	8,451.3	8,361.4	20.8	21.6	-103.84	666.1	626.3	1,312.8	1,274.8	37.99	34.555	
8,455.0	8,370.4	8,456.3	8,366.4	20.8	21.6	-103.84	666.1	626.3	1,312.8	1,274.8	37.99	34.552	
8,500.0	8,415.4	8,501.2	8,411.4	20.8	21.6	-103.88	666.1	626.3	1,313.3	1,275.3	38.02	34.539	
8,550.0	8,464.9	8,550.7	8,460.9	20.9	21.7	-104.00	666.1	626.3	1,315.0	1,276.9	38.05	34.557	
8,600.0	8,513.6	8,599.5	8,509.6	20.9	21.7	-104.19	666.1	626.3	1,317.7	1,279.6	38.07	34.610	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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			
0.0	0.0	0.0	0.0	3.0	3.0	-0.15	150.0	-0.4	150.1					
95.0	95.0	90.9	90.9	3.0	3.0	-0.15	150.0	-0.4	150.0	144.0	6.03	24.856		
100.0	100.0	95.9	95.9	3.0	3.0	-0.15	150.0	-0.4	150.0	144.0	6.04	24.836		
190.0	190.0	185.9	185.9	3.1	3.1	-0.15	150.0	-0.4	150.0	143.7	6.25	23.994		
200.0	200.0	195.9	195.9	3.1	3.1	-0.15	150.0	-0.4	150.0	143.7	6.29	23.862		
285.0	285.0	280.9	280.9	3.3	3.2	-0.15	150.0	-0.4	150.0	143.5	6.50	23.092		
300.0	300.0	295.9	295.9	3.3	3.3	-0.15	150.0	-0.4	150.0	143.5	6.54	22.944		
380.0	380.0	375.9	375.9	3.4	3.4	-0.15	150.0	-0.4	150.0	143.3	6.73	22.277		
400.0	400.0	395.9	395.9	3.4	3.4	-0.15	150.0	-0.4	150.0	143.2	6.79	22.104		
475.0	475.0	470.9	470.9	3.5	3.5	-0.15	150.0	-0.4	150.0	143.0	6.97	21.525		
500.0	500.0	495.9	495.9	3.5	3.5	-0.15	150.0	-0.4	150.0	143.0	7.03	21.329		
570.0	570.0	565.9	565.9	3.6	3.6	-0.15	150.0	-0.4	150.0	142.8	7.20	20.827		
600.0	600.0	595.9	595.9	3.6	3.6	-0.15	150.0	-0.4	150.0	142.7	7.28	20.611		
665.0	665.0	660.9	660.9	3.7	3.7	-0.15	150.0	-0.4	150.0	142.6	7.43	20.176		
700.0	700.0	695.9	695.9	3.8	3.8	-0.15	150.0	-0.4	150.0	142.5	7.52	19.943		
760.0	760.0	755.9	755.9	3.8	3.8	-0.15	150.0	-0.4	150.0	142.3	7.67	19.567		
800.0	800.0	795.9	795.9	3.9	3.9	-0.15	150.0	-0.4	150.0	142.2	7.76	19.320		
855.0	855.0	850.9	850.9	4.0	3.9	-0.15	150.0	-0.4	150.0	142.1	7.90	18.997		
900.0	900.0	895.9	895.9	4.0	4.0	-0.15	150.0	-0.4	150.0	142.0	8.01	18.737		
950.0	950.0	945.9	945.9	4.1	4.1	-0.15	150.0	-0.4	150.0	141.9	8.12	18.462		
1,000.0	1,000.0	995.9	995.9	4.1	4.1	-0.15	150.0	-0.4	150.0	141.8	8.25	18.191		
1,045.0	1,045.0	1,040.9	1,040.9	4.2	4.2	-0.15	150.0	-0.4	150.0	141.6	8.35	17.958		
1,100.0	1,100.0	1,095.9	1,095.9	4.2	4.2	-0.15	150.0	-0.4	150.0	141.5	8.49	17.677		
1,140.0	1,140.0	1,135.9	1,135.9	4.3	4.3	-0.15	150.0	-0.4	150.0	141.4	8.58	17.482		
1,200.0	1,200.0	1,195.9	1,195.9	4.4	4.4	-0.15	150.0	-0.4	150.0	141.3	8.72	17.193		
1,235.0	1,235.0	1,230.9	1,230.9	4.4	4.4	-0.15	150.0	-0.4	150.0	141.2	8.81	17.032		
1,300.0	1,300.0	1,295.9	1,295.9	4.5	4.5	-0.15	150.0	-0.4	150.0	141.0	8.96	16.737		
1,330.0	1,330.0	1,325.9	1,325.9	4.5	4.5	-0.15	150.0	-0.4	150.0	141.0	9.03	16.606		
1,400.0	1,400.0	1,395.9	1,395.9	4.6	4.6	-0.15	150.0	-0.4	150.0	140.8	9.20	16.306		
1,425.0	1,425.0	1,420.9	1,420.9	4.6	4.6	-0.15	150.0	-0.4	150.0	140.7	9.26	16.202		
1,500.0	1,500.0	1,495.9	1,495.9	4.7	4.7	-0.15	150.0	-0.4	150.0	140.6	9.44	15.897		
1,509.6	1,509.6	1,505.3	1,505.3	4.7	4.7	60.68	150.0	-0.4	150.0	140.5	9.46	15.853 CC		
1,520.0	1,520.0	1,515.2	1,515.2	4.7	4.7	60.69	150.0	-0.4	150.0	140.5	9.49	15.803 ES		
1,600.0	1,600.0	1,591.6	1,591.6	4.9	4.9	60.97	151.3	-1.1	150.5	140.8	9.72	15.480		
1,615.0	1,615.0	1,605.9	1,605.9	4.9	4.9	61.06	151.7	-1.3	150.7	140.9	9.78	15.413		
1,700.0	1,699.8	1,687.1	1,687.0	5.1	5.1	61.79	155.4	-3.2	152.3	142.2	10.11	15.064		
1,710.0	1,709.8	1,696.6	1,696.5	5.1	5.2	61.90	156.0	-3.4	152.6	142.4	10.15	15.031		
1,800.0	1,799.5	1,782.5	1,782.0	5.3	5.4	63.09	162.4	-6.7	155.5	145.0	10.50	14.808		
1,805.0	1,804.4	1,787.2	1,786.7	5.3	5.4	63.17	162.8	-6.9	155.7	145.2	10.52	14.800		
1,900.0	1,898.7	1,877.7	1,876.6	5.6	5.7	64.81	172.2	-11.6	160.1	149.2	10.88	14.713		
1,995.0	1,992.5	1,968.0	1,965.9	5.9	5.9	66.74	184.0	-17.6	166.0	154.7	11.24	14.766		
2,000.0	1,997.5	1,972.7	1,970.6	5.9	6.0	66.85	184.7	-18.0	166.3	155.0	11.26	14.773		
2,090.0	2,085.8	2,058.0	2,054.5	6.2	6.2	68.89	198.3	-24.9	173.3	161.7	11.59	14.958		
2,100.0	2,095.6	2,067.5	2,063.8	6.3	6.3	69.12	200.0	-25.7	174.2	162.5	11.62	14.986		
2,185.0	2,178.5	2,149.0	2,143.4	6.6	6.5	71.21	215.2	-33.4	182.2	170.3	11.88	15.335		
2,200.1	2,193.1	2,163.9	2,158.0	6.6	6.5	71.63	218.1	-34.9	183.6	171.7	11.92	15.397		
2,280.0	2,270.7	2,243.1	2,235.3	6.9	6.8	73.94	233.4	-42.6	191.4	179.2	12.19	15.706		
2,300.0	2,290.1	2,262.9	2,254.7	6.9	6.8	74.49	237.2	-44.5	193.4	181.2	12.26	15.780		
2,375.0	2,362.9	2,337.2	2,327.2	7.2	7.1	76.45	251.6	-51.8	201.1	188.5	12.52	16.055		
2,400.0	2,387.1	2,362.0	2,351.4	7.3	7.1	77.07	256.4	-54.2	203.7	191.1	12.61	16.147		
2,470.0	2,455.0	2,431.3	2,419.1	7.5	7.4	78.73	269.8	-61.0	211.1	198.2	12.87	16.403		

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.0	2,484.1	2,461.0	2,448.1	7.6	7.5	79.41	275.5	-63.9	214.3	201.3	12.98	16.513	
2,565.0	2,547.2	2,525.4	2,511.0	7.8	7.7	80.80	288.0	-70.2	221.4	208.2	13.22	16.748	
2,600.0	2,581.2	2,560.1	2,544.8	8.0	7.8	81.52	294.7	-73.6	225.2	211.9	13.35	16.874	
2,660.0	2,639.4	2,619.5	2,602.9	8.2	8.0	82.69	306.1	-79.4	231.9	218.4	13.57	17.087	
2,700.0	2,678.2	2,659.2	2,641.6	8.4	8.2	83.43	313.8	-83.3	236.5	222.7	13.73	17.228	
2,755.0	2,731.6	2,713.7	2,694.8	8.6	8.4	84.41	324.3	-88.6	242.7	228.8	13.94	17.418	
2,800.0	2,775.2	2,758.2	2,738.3	8.7	8.5	85.17	332.9	-92.9	247.9	233.8	14.11	17.571	
2,850.0	2,823.7	2,807.8	2,786.6	8.9	8.7	85.98	342.5	-97.8	253.7	239.4	14.30	17.739	
2,900.0	2,872.3	2,857.3	2,835.0	9.1	8.9	86.76	352.1	-102.6	259.6	245.1	14.50	17.904	
2,945.0	2,915.9	2,901.9	2,878.5	9.3	9.1	87.43	360.7	-107.0	264.9	250.2	14.68	18.050	
3,000.0	2,969.3	2,956.4	2,931.7	9.5	9.3	88.21	371.2	-112.3	271.4	256.5	14.89	18.224	
3,040.0	3,008.1	2,996.0	2,970.4	9.7	9.5	88.75	378.9	-116.2	276.2	261.2	15.05	18.348	
3,100.0	3,066.3	3,055.5	3,028.4	9.9	9.7	89.53	390.3	-122.0	283.4	268.2	15.30	18.531	
3,135.0	3,100.3	3,090.1	3,062.3	10.1	9.8	89.97	397.0	-125.4	287.7	272.2	15.44	18.635	
3,200.0	3,163.3	3,154.5	3,125.2	10.4	10.1	90.75	409.5	-131.7	295.6	279.9	15.70	18.824	
3,230.0	3,192.5	3,184.3	3,154.2	10.5	10.2	91.10	415.2	-134.6	299.3	283.4	15.83	18.910	
3,300.0	3,260.4	3,253.6	3,221.9	10.8	10.5	91.88	428.6	-141.4	307.9	291.7	16.11	19.104	
3,325.0	3,284.6	3,278.4	3,246.1	10.9	10.6	92.14	433.4	-143.8	310.9	294.7	16.22	19.172	
3,400.0	3,357.4	3,352.7	3,318.6	11.2	10.9	92.91	447.8	-151.0	320.2	303.7	16.53	19.370	
3,420.0	3,376.8	3,372.5	3,338.0	11.3	11.0	93.11	451.6	-153.0	322.7	306.1	16.62	19.422	
3,500.0	3,454.4	3,451.7	3,415.3	11.7	11.3	93.87	466.9	-160.7	332.7	315.7	16.95	19.623	
3,515.0	3,469.0	3,466.6	3,429.8	11.7	11.4	94.01	469.8	-162.2	334.6	317.6	17.02	19.660	
3,600.0	3,551.5	3,550.8	3,512.1	12.1	11.8	94.76	486.0	-170.4	345.3	327.9	17.38	19.864	
3,610.0	3,561.2	3,560.7	3,521.7	12.1	11.8	94.85	488.0	-171.4	346.5	329.1	17.42	19.887	
3,700.0	3,648.5	3,649.9	3,608.8	12.5	12.2	95.59	505.2	-180.1	357.9	340.1	17.81	20.091	
3,705.0	3,653.3	3,654.8	3,613.6	12.6	12.2	95.63	506.1	-180.6	358.5	340.7	17.83	20.102	
3,800.0	3,745.5	3,749.0	3,705.5	13.0	12.6	96.36	524.3	-189.8	370.6	352.3	18.25	20.307	
3,895.0	3,837.7	3,843.1	3,797.4	13.4	13.0	97.05	542.5	-199.0	382.7	364.0	18.67	20.502	
3,900.0	3,842.5	3,848.0	3,802.2	13.4	13.1	97.08	543.5	-199.4	383.3	364.7	18.69	20.512	
3,990.0	3,929.9	3,937.2	3,889.3	13.8	13.5	97.69	560.7	-208.2	394.9	375.8	19.09	20.686	
4,000.0	3,939.6	3,947.1	3,898.9	13.9	13.5	97.76	562.6	-209.1	396.2	377.0	19.13	20.705	
4,085.0	4,022.0	4,031.3	3,981.1	14.3	13.9	98.30	578.9	-217.4	407.1	387.6	19.51	20.866	
4,100.0	4,036.6	4,046.2	3,995.7	14.3	13.9	98.39	581.7	-218.8	409.0	389.5	19.58	20.895	
4,180.0	4,114.2	4,127.8	4,075.4	14.7	14.3	98.92	597.3	-226.7	419.3	399.3	19.93	21.032	
4,200.0	4,133.6	4,148.9	4,096.0	14.8	14.4	99.08	601.0	-228.6	421.7	401.7	20.03	21.056	
4,275.0	4,206.4	4,227.8	4,173.7	15.2	14.8	99.87	613.9	-235.1	430.4	410.0	20.37	21.133	
4,300.0	4,230.7	4,254.2	4,199.7	15.3	14.9	100.18	617.7	-237.0	433.1	412.6	20.47	21.156	
4,370.0	4,298.6	4,327.7	4,272.4	15.6	15.2	101.19	627.4	-241.9	440.4	419.6	20.76	21.212	
4,400.0	4,327.7	4,359.1	4,303.6	15.7	15.3	101.67	631.0	-243.7	443.3	422.5	20.88	21.234	
4,465.0	4,390.8	4,427.0	4,371.0	16.0	15.6	102.85	637.7	-247.1	449.4	428.3	21.13	21.275	
4,500.0	4,424.7	4,463.5	4,407.3	16.2	15.8	103.54	640.8	-248.7	452.6	431.3	21.25	21.294	
4,560.0	4,482.9	4,525.7	4,469.3	16.5	16.0	104.83	645.0	-250.8	457.8	436.3	21.46	21.331	
4,578.5	4,500.9	4,544.7	4,488.4	16.5	16.1	105.25	646.1	-251.4	459.3	437.8	21.52	21.342	
4,600.0	4,521.8	4,566.9	4,510.5	16.6	16.2	105.78	647.2	-251.9	461.1	439.5	21.59	21.359	
4,655.0	4,575.3	4,623.6	4,567.1	16.9	16.4	107.11	649.2	-253.0	465.4	443.6	21.78	21.365	
4,700.0	4,619.4	4,669.8	4,613.4	17.1	16.5	108.17	650.2	-253.4	468.6	446.6	21.94	21.353	
4,750.0	4,668.4	4,720.8	4,664.3	17.4	16.6	109.33	650.5	-253.6	471.8	449.7	22.11	21.341	
4,800.0	4,717.7	4,770.0	4,713.6	17.6	16.6	110.37	650.5	-253.6	474.8	452.5	22.27	21.320	
4,845.0	4,762.1	4,814.5	4,758.0	17.8	16.7	111.21	650.5	-253.6	477.4	455.0	22.42	21.295	
4,900.0	4,816.5	4,868.9	4,812.4	18.0	16.7	112.12	650.5	-253.6	480.3	457.7	22.61	21.242	
4,940.0	4,856.2	4,908.6	4,852.1	18.2	16.7	112.70	650.5	-253.6	482.2	459.4	22.74	21.201	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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	4,915.9	4,968.2	4,911.8	18.5	16.7	113.45	650.5	-253.6	484.7	461.8	22.95	21.123
5,035.0	4,950.7	5,003.1	4,946.6	18.6	16.8	113.81	650.5	-253.6	486.0	462.9	23.06	21.077
5,100.0	5,015.6	5,067.9	5,011.5	18.9	16.8	114.36	650.5	-253.6	488.0	464.7	23.26	20.975
5,130.0	5,045.5	5,097.9	5,041.4	19.0	16.8	114.56	650.5	-253.6	488.7	465.3	23.35	20.929
5,200.0	5,115.4	5,167.8	5,111.3	19.2	16.9	114.87	650.5	-253.6	489.8	466.3	23.54	20.805
5,225.0	5,140.4	5,192.8	5,136.3	19.3	16.9	114.94	650.5	-253.6	490.1	466.5	23.59	20.772
5,278.6	5,194.0	5,246.4	5,189.9	19.3	16.9	54.17	650.5	-253.6	490.3	466.6	23.69	20.692
5,300.0	5,215.4	5,267.8	5,211.3	19.3	16.9	54.17	650.5	-253.6	490.3	466.6	23.72	20.672
5,320.0	5,235.4	5,287.8	5,231.3	19.4	16.9	54.17	650.5	-253.6	490.3	466.5	23.75	20.645
5,400.0	5,315.4	5,367.8	5,311.3	19.4	17.0	54.17	650.5	-253.6	490.3	466.4	23.87	20.538
5,415.0	5,330.4	5,382.8	5,326.3	19.4	17.0	54.17	650.5	-253.6	490.3	466.4	23.89	20.518
5,500.0	5,415.4	5,467.8	5,411.3	19.4	17.0	54.17	650.5	-253.6	490.3	466.3	24.03	20.406
5,510.0	5,425.4	5,477.8	5,421.3	19.4	17.0	54.17	650.5	-253.6	490.3	466.2	24.04	20.393
5,600.0	5,515.4	5,567.8	5,511.3	19.5	17.1	54.17	650.5	-253.6	490.3	466.1	24.18	20.276
5,605.0	5,520.4	5,572.8	5,516.3	19.5	17.1	54.17	650.5	-253.6	490.3	466.1	24.19	20.270
5,700.0	5,615.4	5,667.8	5,611.3	19.5	17.1	54.17	650.5	-253.6	490.3	465.9	24.33	20.148
5,795.0	5,710.4	5,762.8	5,706.3	19.6	17.2	54.17	650.5	-253.6	490.3	465.8	24.48	20.027
5,800.0	5,715.4	5,767.8	5,711.3	19.6	17.2	54.17	650.5	-253.6	490.3	465.8	24.49	20.021
5,890.0	5,805.4	5,857.8	5,801.3	19.6	17.2	54.17	650.5	-253.6	490.3	465.7	24.63	19.908
5,900.0	5,815.4	5,867.8	5,811.3	19.6	17.2	54.17	650.5	-253.6	490.3	465.6	24.64	19.895
5,985.0	5,900.4	5,952.8	5,896.3	19.7	17.3	54.17	650.5	-253.6	490.3	465.5	24.77	19.790
6,000.0	5,915.4	5,967.8	5,911.3	19.7	17.3	54.17	650.5	-253.6	490.3	465.5	24.80	19.771
6,080.0	5,995.4	6,047.8	5,991.3	19.7	17.4	54.17	650.5	-253.6	490.3	465.4	24.92	19.673
6,100.0	6,015.4	6,067.8	6,011.3	19.7	17.4	54.17	650.5	-253.6	490.3	465.3	24.95	19.649
6,175.0	6,090.4	6,142.8	6,086.3	19.7	17.4	54.17	650.5	-253.6	490.3	465.2	25.07	19.558
6,200.0	6,115.4	6,167.8	6,111.3	19.8	17.4	54.17	650.5	-253.6	490.3	465.2	25.11	19.528
6,270.0	6,185.4	6,237.8	6,181.3	19.8	17.5	54.17	650.5	-253.6	490.3	465.1	25.22	19.444
6,300.0	6,215.4	6,267.8	6,211.3	19.8	17.5	54.17	650.5	-253.6	490.3	465.0	25.26	19.408
6,365.0	6,280.4	6,332.8	6,276.3	19.8	17.5	54.17	650.5	-253.6	490.3	464.9	25.36	19.331
6,400.0	6,315.4	6,367.8	6,311.3	19.8	17.5	54.17	650.5	-253.6	490.3	464.9	25.42	19.290
6,460.0	6,375.4	6,427.8	6,371.3	19.9	17.6	54.17	650.5	-253.6	490.3	464.8	25.51	19.220
6,500.0	6,415.4	6,467.8	6,411.3	19.9	17.6	54.17	650.5	-253.6	490.3	464.7	25.57	19.173
6,555.0	6,470.4	6,522.8	6,466.3	19.9	17.6	54.17	650.5	-253.6	490.3	464.6	25.66	19.109
6,600.0	6,515.4	6,567.8	6,511.3	19.9	17.7	54.17	650.5	-253.6	490.3	464.6	25.73	19.058
6,650.0	6,565.4	6,617.8	6,561.3	20.0	17.7	54.17	650.5	-253.6	490.3	464.5	25.80	19.000
6,700.0	6,615.4	6,667.8	6,611.3	20.0	17.7	54.17	650.5	-253.6	490.3	464.4	25.88	18.943
6,745.0	6,660.4	6,712.8	6,656.3	20.0	17.7	54.17	650.5	-253.6	490.3	464.3	25.95	18.893
6,800.0	6,715.4	6,767.8	6,711.3	20.0	17.8	54.17	650.5	-253.6	490.3	464.2	26.04	18.831
6,840.0	6,755.4	6,807.8	6,751.3	20.1	17.8	54.17	650.5	-253.6	490.3	464.2	26.10	18.786
6,900.0	6,815.4	6,867.8	6,811.3	20.1	17.8	54.17	650.5	-253.6	490.3	464.1	26.19	18.719
6,935.0	6,850.4	6,902.8	6,846.3	20.1	17.9	54.17	650.5	-253.6	490.3	464.0	26.25	18.680
7,000.0	6,915.4	6,967.8	6,911.3	20.1	17.9	54.17	650.5	-253.6	490.3	463.9	26.35	18.609
7,030.0	6,945.4	6,997.8	6,941.3	20.1	17.9	54.17	650.5	-253.6	490.3	463.9	26.39	18.576
7,100.0	7,015.4	7,067.8	7,011.3	20.2	17.9	54.17	650.5	-253.6	490.3	463.8	26.50	18.500
7,125.0	7,040.4	7,092.8	7,036.3	20.2	18.0	54.17	650.5	-253.6	490.3	463.7	26.54	18.473
7,200.0	7,115.4	7,167.8	7,111.3	20.2	18.0	54.17	650.5	-253.6	490.3	463.6	26.66	18.392
7,220.0	7,135.4	7,187.8	7,131.3	20.2	18.0	54.17	650.5	-253.6	490.3	463.6	26.69	18.371
7,300.0	7,215.4	7,267.8	7,211.3	20.3	18.1	54.17	650.5	-253.6	490.3	463.5	26.81	18.286
7,315.0	7,230.4	7,282.8	7,226.3	20.3	18.1	54.17	650.5	-253.6	490.3	463.4	26.84	18.270
7,400.0	7,315.4	7,367.8	7,311.3	20.3	18.1	54.17	650.5	-253.6	490.3	463.3	26.97	18.180
7,410.0	7,325.4	7,377.8	7,321.3	20.3	18.1	54.17	650.5	-253.6	490.3	463.3	26.98	18.170

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
7,500.0	7,415.4	7,467.8	7,411.3	20.4	18.2	54.17	650.5	-253.6	490.3	463.2	27.12	18.076	
7,505.0	7,420.4	7,472.8	7,416.3	20.4	18.2	54.17	650.5	-253.6	490.3	463.1	27.13	18.071	
7,600.0	7,515.4	7,567.8	7,511.3	20.4	18.2	54.17	650.5	-253.6	490.3	463.0	27.28	17.973	
7,695.0	7,610.4	7,662.8	7,606.3	20.5	18.3	54.17	650.5	-253.6	490.3	462.9	27.43	17.876	
7,700.0	7,615.4	7,667.8	7,611.3	20.5	18.3	54.17	650.5	-253.6	490.3	462.8	27.43	17.871	
7,790.0	7,705.4	7,757.8	7,701.3	20.5	18.4	54.17	650.5	-253.6	490.3	462.7	27.57	17.780	
7,800.0	7,715.4	7,767.8	7,711.3	20.5	18.4	54.17	650.5	-253.6	490.3	462.7	27.59	17.770	
7,885.0	7,800.4	7,852.8	7,796.3	20.6	18.4	54.17	650.5	-253.6	490.3	462.6	27.72	17.685	
7,900.0	7,815.4	7,867.8	7,811.3	20.6	18.4	54.17	650.5	-253.6	490.3	462.5	27.75	17.671	
7,980.0	7,895.4	7,947.8	7,891.3	20.6	18.5	54.17	650.5	-253.6	490.3	462.4	27.87	17.591	
8,000.0	7,915.4	7,967.8	7,911.3	20.6	18.5	54.17	650.5	-253.6	490.3	462.4	27.90	17.572	
8,075.0	7,990.4	8,042.8	7,986.3	20.7	18.5	54.17	650.5	-253.6	490.3	462.3	28.02	17.499	
8,100.0	8,015.4	8,067.8	8,011.3	20.7	18.6	54.17	650.5	-253.6	490.3	462.2	28.06	17.474	
8,170.0	8,085.4	8,137.8	8,081.3	20.7	18.6	54.17	650.5	-253.6	490.3	462.1	28.17	17.407	
8,200.0	8,115.4	8,167.8	8,111.3	20.7	18.6	54.17	650.5	-253.6	490.3	462.1	28.21	17.378	
8,265.0	8,180.4	8,232.8	8,176.3	20.7	18.7	54.17	650.5	-253.6	490.3	462.0	28.31	17.315	
8,300.0	8,215.4	8,267.8	8,211.3	20.8	18.7	54.17	650.5	-253.6	490.3	461.9	28.37	17.282	
8,360.0	8,275.4	8,327.8	8,271.3	20.8	18.7	54.17	650.5	-253.6	490.3	461.8	28.46	17.225	
8,400.0	8,315.4	8,367.8	8,311.3	20.8	18.7	54.17	650.5	-253.6	490.3	461.8	28.53	17.188	
8,447.6	8,363.0	8,415.4	8,358.9	20.8	18.8	54.17	650.5	-253.6	490.3	461.7	28.58	17.155	
8,450.0	8,365.4	8,417.8	8,361.3	20.8	18.8	-126.34	650.5	-253.6	490.3	461.7	28.58	17.153	
8,455.0	8,370.4	8,422.8	8,366.3	20.8	18.8	-126.34	650.5	-253.6	490.3	461.7	28.59	17.150	
8,500.0	8,415.4	8,467.7	8,411.3	20.8	18.8	-126.45	650.5	-253.6	491.7	463.1	28.64	17.166	
8,550.0	8,464.9	8,517.3	8,460.8	20.9	18.8	-126.75	650.5	-253.6	495.7	467.1	28.68	17.282	
8,600.0	8,513.6	8,566.0	8,509.5	20.9	18.9	-127.20	650.5	-253.6	502.5	473.8	28.71	17.502	
8,645.0	8,556.6	8,608.9	8,552.5	20.9	18.9	-127.69	650.5	-253.6	511.0	482.2	28.73	17.785	
8,650.0	8,561.3	8,613.6	8,557.2	20.9	18.9	-127.75	650.5	-253.6	512.0	483.3	28.73	17.822	
8,700.0	8,607.4	8,659.7	8,603.3	20.9	18.9	-128.33	650.5	-253.6	524.5	495.8	28.76	18.239	
8,740.0	8,642.9	8,695.3	8,638.8	21.0	18.9	-128.77	650.5	-253.6	536.8	508.0	28.79	18.642	
8,750.0	8,651.6	8,704.0	8,647.5	21.0	18.9	-128.87	650.5	-253.6	540.1	511.3	28.81	18.751	
8,800.0	8,693.6	8,746.0	8,689.5	21.0	19.0	-129.28	650.5	-253.6	558.9	530.1	28.88	19.355	
8,835.0	8,721.6	8,773.9	8,717.5	21.0	19.0	-129.44	650.5	-253.6	574.0	545.1	28.95	19.829	
8,850.0	8,733.2	8,785.5	8,729.1	21.0	19.0	-129.47	650.5	-253.6	581.0	552.0	28.99	20.044	
8,900.0	8,769.9	8,822.2	8,765.8	21.1	19.0	-129.36	650.5	-253.6	606.3	577.2	29.13	20.816	
8,930.0	8,790.4	8,842.8	8,786.3	21.1	19.0	-129.10	650.5	-253.6	623.0	593.8	29.23	21.317	
8,950.0	8,803.5	8,855.8	8,799.4	21.1	19.0	-128.83	650.5	-253.6	634.8	605.5	29.30	21.666	
9,000.0	8,833.8	8,886.1	8,829.7	21.1	19.1	-127.77	650.5	-253.6	666.4	636.9	29.50	22.590	
9,025.0	8,847.6	8,899.9	8,843.5	21.2	19.1	-127.00	650.5	-253.6	683.3	653.7	29.61	23.078	
9,050.0	8,860.4	8,912.8	8,856.3	21.2	19.1	-126.05	650.5	-253.6	700.9	671.2	29.72	23.583	
9,100.0	8,883.3	8,935.7	8,879.2	21.2	19.1	-123.47	650.5	-253.6	738.1	708.1	29.95	24.640	
9,120.0	8,891.4	8,943.7	8,887.3	21.2	19.1	-122.16	650.5	-253.6	753.6	723.5	30.05	25.080	
9,150.0	8,902.3	8,954.6	8,898.2	21.3	19.1	-119.83	650.5	-253.6	777.5	747.3	30.19	25.755	
9,200.0	8,917.1	8,969.5	8,913.0	21.3	19.1	-114.84	650.5	-253.6	819.0	788.6	30.42	26.924	
9,215.0	8,920.7	8,973.1	8,916.6	21.3	19.1	-113.03	650.5	-253.6	831.8	801.3	30.49	27.284	
9,250.0	8,927.7	8,980.1	8,923.6	21.4	19.1	-108.21	650.5	-253.6	862.1	831.5	30.64	28.138	
9,300.0	8,934.0	8,986.4	8,929.9	21.4	19.1	-99.73	650.5	-253.6	906.5	875.6	30.84	29.389	
9,310.0	8,934.8	10,391.8	9,756.2	21.5	20.3	-154.39	-174.7	-260.9	915.1	876.8	38.35	23.863	
9,346.7	8,936.0	10,428.4	9,756.2	21.5	20.3	-154.40	-211.4	-261.2	914.1	875.5	38.53	23.726	
9,400.0	8,936.1	10,481.8	9,756.3	21.6	20.3	-154.40	-264.7	-261.7	914.0	875.3	38.75	23.587	
9,405.0	8,936.1	10,486.8	9,756.3	21.6	20.3	-154.40	-269.7	-261.8	914.0	875.2	38.77	23.573	
9,500.0	8,936.2	10,581.8	9,756.4	21.7	20.4	-154.40	-364.7	-262.6	913.9	874.7	39.23	23.297	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
9,595.0	8,936.4	10,676.8	9,756.4	21.9	20.5	-154.40	-459.7	-263.5	913.9	874.1	39.74	22.998	
9,600.0	8,936.4	10,681.8	9,756.4	21.9	20.5	-154.39	-464.7	-263.5	913.9	874.1	39.76	22.983	
9,690.0	8,936.6	10,771.8	9,756.5	22.0	20.6	-154.39	-554.7	-264.3	913.8	873.5	40.29	22.680	
9,700.0	8,936.6	10,781.8	9,756.5	22.1	20.6	-154.39	-564.7	-264.4	913.8	873.4	40.35	22.646	
9,785.0	8,936.7	10,866.8	9,756.6	22.2	20.7	-154.39	-649.7	-265.1	913.7	872.8	40.89	22.345	
9,800.0	8,936.7	10,881.8	9,756.6	22.3	20.7	-154.39	-664.7	-265.3	913.7	872.7	40.99	22.292	
9,880.0	8,936.9	10,961.8	9,756.7	22.4	20.8	-154.39	-744.7	-266.0	913.7	872.1	41.54	21.996	
9,900.0	8,936.9	10,981.8	9,756.7	22.5	20.8	-154.39	-764.7	-266.2	913.6	872.0	41.68	21.923	
9,975.0	8,937.0	11,056.8	9,756.7	22.7	20.9	-154.39	-839.7	-266.8	913.6	871.4	42.22	21.637	
10,000.0	8,937.1	11,081.8	9,756.7	22.7	21.0	-154.39	-864.7	-267.0	913.6	871.2	42.41	21.542	
10,070.0	8,937.2	11,151.8	9,756.8	22.9	21.1	-154.38	-934.7	-267.7	913.5	870.6	42.95	21.269	
10,100.0	8,937.2	11,181.8	9,756.8	23.0	21.1	-154.38	-964.7	-267.9	913.5	870.3	43.18	21.153	
10,165.0	8,937.3	11,246.8	9,756.9	23.2	21.2	-154.38	-1,029.6	-268.5	913.4	869.7	43.72	20.895	
10,200.0	8,937.4	11,281.8	9,756.9	23.3	21.3	-154.38	-1,064.6	-268.8	913.4	869.4	44.00	20.758	
10,260.0	8,937.5	11,341.8	9,757.0	23.5	21.4	-154.38	-1,124.6	-269.4	913.4	868.9	44.52	20.518	
10,300.0	8,937.5	11,381.8	9,757.0	23.6	21.5	-154.38	-1,164.6	-269.7	913.3	868.5	44.86	20.359	
10,355.0	8,937.6	11,436.8	9,757.0	23.8	21.7	-154.38	-1,219.6	-270.2	913.3	868.0	45.35	20.138	
10,400.0	8,937.7	11,481.8	9,757.1	23.9	21.8	-154.38	-1,264.6	-270.6	913.3	867.5	45.76	19.959	
10,450.0	8,937.8	11,531.8	9,757.1	24.1	21.9	-154.38	-1,314.6	-271.0	913.2	867.0	46.22	19.758	
10,500.0	8,937.9	11,581.8	9,757.1	24.2	22.1	-154.37	-1,364.6	-271.5	913.2	866.5	46.69	19.560	
10,545.0	8,937.9	11,626.8	9,757.2	24.4	22.2	-154.37	-1,409.6	-271.9	913.2	866.0	47.12	19.380	
10,600.0	8,938.0	11,681.8	9,757.2	24.6	22.4	-154.37	-1,464.6	-272.4	913.1	865.5	47.65	19.163	
10,640.0	8,938.1	11,721.8	9,757.3	24.7	22.5	-154.37	-1,504.6	-272.7	913.1	865.1	48.05	19.005	
10,700.0	8,938.2	11,781.8	9,757.3	25.0	22.7	-154.37	-1,564.6	-273.3	913.1	864.4	48.64	18.770	
10,735.0	8,938.2	11,816.8	9,757.3	25.1	22.9	-154.37	-1,599.6	-273.6	913.0	864.0	49.00	18.633	
10,800.0	8,938.3	11,881.8	9,757.4	25.4	23.1	-154.37	-1,664.6	-274.1	913.0	863.3	49.67	18.382	
10,830.0	8,938.4	11,911.8	9,757.4	25.5	23.3	-154.37	-1,694.6	-274.4	913.0	863.0	49.98	18.266	
10,900.0	8,938.5	11,981.8	9,757.5	25.8	23.6	-154.37	-1,764.6	-275.0	912.9	862.2	50.72	18.000	
10,925.0	8,938.5	12,006.8	9,757.5	25.9	23.7	-154.36	-1,789.6	-275.3	912.9	861.9	50.99	17.905	
11,000.0	8,938.7	12,081.8	9,757.5	26.2	24.0	-154.36	-1,864.6	-275.9	912.8	861.0	51.79	17.624	
11,020.0	8,938.7	12,101.8	9,757.6	26.3	24.1	-154.36	-1,884.6	-276.1	912.8	860.8	52.01	17.550	
11,100.0	8,938.8	12,181.8	9,757.6	26.6	24.5	-154.36	-1,964.6	-276.8	912.8	859.9	52.90	17.256	
11,115.0	8,938.9	12,196.8	9,757.6	26.7	24.6	-154.36	-1,979.6	-276.9	912.7	859.7	53.06	17.201	
11,200.0	8,939.0	12,281.8	9,757.7	27.1	25.0	-154.36	-2,064.6	-277.7	912.7	858.7	54.02	16.896	
11,210.0	8,939.0	12,291.8	9,757.7	27.2	25.1	-154.36	-2,074.6	-277.8	912.7	858.5	54.13	16.860	
11,300.0	8,939.2	12,381.8	9,757.8	27.6	25.5	-154.36	-2,164.6	-278.6	912.6	857.4	55.16	16.544	
11,305.0	8,939.2	12,386.8	9,757.8	27.6	25.6	-154.36	-2,169.6	-278.6	912.6	857.4	55.22	16.526	
11,400.0	8,939.3	12,481.8	9,757.9	28.1	26.1	-154.35	-2,264.6	-279.5	912.5	856.2	56.33	16.200	
11,495.0	8,939.5	12,576.8	9,757.9	28.5	26.6	-154.35	-2,359.6	-280.3	912.5	855.0	57.45	15.882	
11,500.0	8,939.5	12,581.8	9,757.9	28.6	26.6	-154.35	-2,364.6	-280.4	912.5	854.9	57.51	15.866	
11,590.0	8,939.6	12,671.8	9,758.0	29.0	27.2	-154.35	-2,454.6	-281.2	912.4	853.8	58.59	15.572	
11,600.0	8,939.6	12,681.8	9,758.0	29.1	27.2	-154.35	-2,464.6	-281.2	912.4	853.7	58.71	15.540	
11,685.0	8,939.8	12,766.8	9,758.1	29.5	27.7	-154.35	-2,549.6	-282.0	912.3	852.6	59.75	15.270	
11,700.0	8,939.8	12,781.8	9,758.1	29.6	27.8	-154.35	-2,564.6	-282.1	912.3	852.4	59.93	15.223	
11,780.0	8,939.9	12,861.8	9,758.2	30.0	28.3	-154.35	-2,644.6	-282.8	912.3	851.3	60.92	14.975	
11,800.0	8,940.0	12,881.8	9,758.2	30.1	28.4	-154.35	-2,664.6	-283.0	912.2	851.1	61.16	14.915	
11,875.0	8,940.1	12,956.8	9,758.2	30.5	28.9	-154.34	-2,739.6	-283.7	912.2	850.1	62.10	14.689	
11,900.0	8,940.1	12,981.8	9,758.3	30.7	29.0	-154.34	-2,764.6	-283.9	912.2	849.8	62.41	14.615	
11,970.0	8,940.2	13,051.8	9,758.3	31.1	29.5	-154.34	-2,834.6	-284.5	912.1	848.8	63.30	14.410	
12,000.0	8,940.3	13,081.8	9,758.3	31.2	29.7	-154.34	-2,864.6	-284.8	912.1	848.4	63.67	14.324	
12,065.0	8,940.4	13,146.8	9,758.4	31.6	30.1	-154.34	-2,929.6	-285.4	912.0	847.5	64.50	14.140	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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	8,940.4	13,181.8	9,758.4	31.8	30.3	-154.34	-2,964.6	-285.7	912.0	847.1	64.95	14.042
12,160.0	8,940.5	13,241.8	9,758.5	32.1	30.7	-154.34	-3,024.6	-286.2	912.0	846.3	65.72	13.876
12,200.0	8,940.6	13,281.8	9,758.5	32.4	30.9	-154.34	-3,064.6	-286.6	911.9	845.7	66.24	13.768
12,255.0	8,940.7	13,336.8	9,758.5	32.7	31.3	-154.33	-3,119.6	-287.1	911.9	845.0	66.95	13.621
12,300.0	8,940.8	13,381.8	9,758.6	33.0	31.6	-154.33	-3,164.6	-287.4	911.9	844.3	67.54	13.502
12,350.0	8,940.9	13,431.8	9,758.6	33.2	31.9	-154.33	-3,214.6	-287.9	911.8	843.6	68.19	13.372
12,400.0	8,940.9	13,481.8	9,758.6	33.5	32.2	-154.33	-3,264.6	-288.3	911.8	843.0	68.84	13.244
12,445.0	8,941.0	13,526.8	9,758.7	33.8	32.5	-154.33	-3,309.6	-288.7	911.8	842.3	69.44	13.131
12,500.0	8,941.1	13,581.8	9,758.7	34.1	32.9	-154.33	-3,364.6	-289.2	911.7	841.6	70.16	12.994
12,540.0	8,941.2	13,621.8	9,758.8	34.4	33.2	-154.33	-3,404.6	-289.6	911.7	841.0	70.70	12.896
12,600.0	8,941.3	13,681.8	9,758.8	34.7	33.6	-154.33	-3,464.6	-290.1	911.6	840.2	71.49	12.751
12,635.0	8,941.3	13,716.8	9,758.8	35.0	33.8	-154.33	-3,499.5	-290.4	911.6	839.7	71.96	12.668
12,700.0	8,941.4	13,781.8	9,758.9	35.4	34.2	-154.32	-3,564.5	-291.0	911.6	838.7	72.83	12.516
12,730.0	8,941.5	13,811.8	9,758.9	35.5	34.4	-154.32	-3,594.5	-291.3	911.6	838.3	73.24	12.447
12,800.0	8,941.6	13,881.8	9,759.0	36.0	34.9	-154.32	-3,664.5	-291.9	911.5	837.3	74.18	12.288
12,825.0	8,941.6	13,906.8	9,759.0	36.1	35.1	-154.32	-3,689.5	-292.1	911.5	837.0	74.52	12.232
12,900.0	8,941.7	13,981.8	9,759.0	36.6	35.6	-154.32	-3,764.5	-292.8	911.4	835.9	75.54	12.066
12,920.0	8,941.8	14,001.8	9,759.1	36.7	35.7	-154.32	-3,784.5	-293.0	911.4	835.6	75.81	12.023
13,000.0	8,941.9	14,081.8	9,759.1	37.2	36.3	-154.32	-3,864.5	-293.7	911.4	834.5	76.90	11.851
13,015.0	8,941.9	14,096.8	9,759.1	37.3	36.4	-154.32	-3,879.5	-293.8	911.3	834.2	77.10	11.820
13,100.0	8,942.1	14,181.8	9,759.2	37.9	37.0	-154.32	-3,964.5	-294.5	911.3	833.0	78.27	11.643
13,110.0	8,942.1	14,191.8	9,759.2	37.9	37.0	-154.32	-3,974.5	-294.6	911.3	832.9	78.41	11.622
13,200.0	8,942.2	14,281.8	9,759.3	38.5	37.7	-154.31	-4,064.5	-295.4	911.2	831.6	79.65	11.440
13,205.0	8,942.2	14,286.8	9,759.3	38.5	37.7	-154.31	-4,069.5	-295.5	911.2	831.5	79.72	11.430
13,300.0	8,942.4	14,381.8	9,759.4	39.1	38.4	-154.31	-4,164.5	-296.3	911.1	830.1	81.03	11.244
13,395.0	8,942.5	14,476.8	9,759.4	39.8	39.0	-154.31	-4,259.5	-297.2	911.1	828.7	82.35	11.063
13,400.0	8,942.5	14,481.8	9,759.4	39.8	39.0	-154.31	-4,264.5	-297.2	911.1	828.6	82.42	11.053
13,490.0	8,942.7	14,571.8	9,759.5	40.4	39.7	-154.31	-4,354.5	-298.0	911.0	827.3	83.68	10.887
13,500.0	8,942.7	14,581.8	9,759.5	40.5	39.7	-154.31	-4,364.5	-298.1	911.0	827.2	83.82	10.868
13,585.0	8,942.8	14,666.8	9,759.6	41.0	40.3	-154.30	-4,449.5	-298.9	910.9	825.9	85.01	10.715
13,600.0	8,942.9	14,681.8	9,759.6	41.1	40.5	-154.30	-4,464.5	-299.0	910.9	825.7	85.22	10.689
13,680.0	8,943.0	14,761.8	9,759.7	41.6	41.0	-154.30	-4,544.5	-299.7	910.8	824.5	86.35	10.549
13,700.0	8,943.0	14,781.8	9,759.7	41.8	41.2	-154.30	-4,564.5	-299.9	910.8	824.2	86.63	10.514
13,775.0	8,943.2	14,856.8	9,759.7	42.3	41.7	-154.30	-4,639.5	-300.5	910.8	823.1	87.69	10.386
13,800.0	8,943.2	14,881.8	9,759.8	42.4	41.9	-154.30	-4,664.5	-300.8	910.8	822.7	88.04	10.345
13,870.0	8,943.3	14,951.8	9,759.8	42.9	42.4	-154.30	-4,734.5	-301.4	910.7	821.7	89.04	10.229
13,900.0	8,943.4	14,981.8	9,759.8	43.1	42.6	-154.30	-4,764.5	-301.6	910.7	821.2	89.46	10.180
13,965.0	8,943.5	15,046.8	9,759.9	43.5	43.0	-154.30	-4,829.5	-302.2	910.6	820.3	90.39	10.075
14,000.0	8,943.5	15,081.8	9,759.9	43.8	43.3	-154.30	-4,864.5	-302.5	910.6	819.7	90.88	10.020
14,060.0	8,943.6	15,141.8	9,760.0	44.2	43.7	-154.29	-4,924.5	-303.1	910.6	818.8	91.74	9.926
14,100.0	8,943.7	15,181.8	9,760.0	44.5	44.0	-154.29	-4,964.5	-303.4	910.5	818.2	92.31	9.864
14,155.0	8,943.8	15,236.8	9,760.0	44.8	44.4	-154.29	-5,019.5	-303.9	910.5	817.4	93.10	9.780
14,200.0	8,943.8	15,281.8	9,760.1	45.1	44.7	-154.29	-5,064.5	-304.3	910.5	816.7	93.74	9.712
14,250.0	8,943.9	15,331.8	9,760.1	45.5	45.1	-154.29	-5,114.5	-304.8	910.4	816.0	94.46	9.638
14,300.0	8,944.0	15,381.8	9,760.2	45.8	45.4	-154.29	-5,164.5	-305.2	910.4	815.2	95.18	9.565
14,345.0	8,944.1	15,426.8	9,760.2	46.1	45.8	-154.29	-5,209.5	-305.6	910.4	814.5	95.82	9.500
14,400.0	8,944.2	15,481.8	9,760.2	46.5	46.2	-154.29	-5,264.5	-306.1	910.3	813.7	96.62	9.422
14,440.0	8,944.2	15,521.8	9,760.3	46.8	46.4	-154.29	-5,304.5	-306.4	910.3	813.1	97.19	9.366
14,500.0	8,944.3	15,581.8	9,760.3	47.2	46.9	-154.28	-5,364.5	-307.0	910.2	812.2	98.06	9.283
14,535.0	8,944.4	15,616.8	9,760.3	47.4	47.1	-154.28	-5,399.5	-307.3	910.2	811.7	98.57	9.235
14,600.0	8,944.5	15,681.8	9,760.4	47.9	47.6	-154.28	-5,464.5	-307.9	910.2	810.7	99.51	9.147

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1												Offset Site Error: 0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-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		
14,630.0	8,944.5	15,711.8	9,760.4	48.1	47.8	-154.28	-5,494.5	-308.1	910.1	810.2	99.94	9.107		
14,700.0	8,944.6	15,781.8	9,760.5	48.6	48.3	-154.28	-5,564.5	-308.7	910.1	809.1	100.96	9.015		
14,725.0	8,944.7	15,806.8	9,760.5	48.7	48.5	-154.28	-5,589.5	-309.0	910.1	808.8	101.32	8.982		
14,800.0	8,944.8	15,881.8	9,760.5	49.3	49.0	-154.28	-5,664.5	-309.6	910.0	807.6	102.41	8.886		
14,820.0	8,944.8	15,901.8	9,760.6	49.4	49.2	-154.28	-5,684.5	-309.8	910.0	807.3	102.70	8.861		
14,900.0	8,945.0	15,981.8	9,760.6	50.0	49.8	-154.27	-5,764.5	-310.5	909.9	806.1	103.86	8.761		
14,915.0	8,945.0	15,996.8	9,760.6	50.1	49.9	-154.27	-5,779.5	-310.7	909.9	805.9	104.08	8.742		
15,000.0	8,945.1	16,081.8	9,760.7	50.7	50.5	-154.27	-5,864.5	-311.4	909.9	804.5	105.32	8.639		
15,010.0	8,945.1	16,091.8	9,760.7	50.7	50.6	-154.27	-5,874.5	-311.5	909.9	804.4	105.47	8.627		
15,100.0	8,945.3	16,181.8	9,760.8	51.4	51.2	-154.27	-5,964.5	-312.3	909.8	803.0	106.79	8.520		
15,105.0	8,945.3	16,186.8	9,760.8	51.4	51.3	-154.27	-5,969.5	-312.3	909.8	802.9	106.86	8.514		
15,200.0	8,945.5	16,281.8	9,760.9	52.1	52.0	-154.27	-6,064.4	-313.2	909.7	801.5	108.25	8.404		
15,295.0	8,945.6	16,376.8	9,760.9	52.7	52.6	-154.27	-6,159.4	-314.0	909.7	800.0	109.65	8.296		
15,300.0	8,945.6	16,381.8	9,760.9	52.8	52.7	-154.27	-6,164.4	-314.1	909.7	799.9	109.72	8.291		
15,390.0	8,945.8	16,471.8	9,761.0	53.4	53.3	-154.26	-6,254.4	-314.9	909.6	798.5	111.04	8.191		
15,400.0	8,945.8	16,481.8	9,761.0	53.5	53.4	-154.26	-6,264.4	-315.0	909.6	798.4	111.19	8.180		
15,485.0	8,945.9	16,566.8	9,761.1	54.1	54.0	-154.26	-6,349.4	-315.7	909.5	797.1	112.44	8.089		
15,500.0	8,945.9	16,581.8	9,761.1	54.2	54.1	-154.26	-6,364.4	-315.8	909.5	796.8	112.66	8.073		
15,580.0	8,946.1	16,661.8	9,761.2	54.7	54.7	-154.26	-6,444.4	-316.6	909.4	795.6	113.84	7.989		
15,600.0	8,946.1	16,681.8	9,761.2	54.9	54.9	-154.26	-6,464.4	-316.7	909.4	795.3	114.14	7.968		
15,675.0	8,946.2	16,756.8	9,761.2	55.4	55.4	-154.26	-6,539.4	-317.4	909.4	794.1	115.24	7.891		
15,700.0	8,946.3	16,781.8	9,761.3	55.6	55.6	-154.26	-6,564.4	-317.6	909.4	793.7	115.61	7.866		
15,770.0	8,946.4	16,851.8	9,761.3	56.1	56.1	-154.25	-6,634.4	-318.2	909.3	792.7	116.65	7.795		
15,800.0	8,946.4	16,881.8	9,761.3	56.3	56.3	-154.25	-6,664.4	-318.5	909.3	792.2	117.09	7.766		
15,865.0	8,946.5	16,946.8	9,761.4	56.8	56.8	-154.25	-6,729.4	-319.1	909.2	791.2	118.05	7.702		
15,900.0	8,946.6	16,981.8	9,761.4	57.0	57.1	-154.25	-6,764.4	-319.4	909.2	790.6	118.57	7.668		
15,960.0	8,946.7	17,041.8	9,761.5	57.4	57.5	-154.25	-6,824.4	-319.9	909.2	789.7	119.46	7.610		
16,000.0	8,946.7	17,081.8	9,761.5	57.7	57.8	-154.25	-6,864.4	-320.3	909.1	789.1	120.06	7.573		
16,055.0	8,946.8	17,136.8	9,761.5	58.1	58.2	-154.25	-6,919.4	-320.8	909.1	788.2	120.87	7.521		
16,100.0	8,946.9	17,181.8	9,761.6	58.5	58.6	-154.25	-6,964.4	-321.2	909.1	787.5	121.54	7.479		
16,150.0	8,947.0	17,231.8	9,761.6	58.8	58.9	-154.25	-7,014.4	-321.6	909.0	786.7	122.29	7.434		
16,200.0	8,947.1	17,281.8	9,761.7	59.2	59.3	-154.25	-7,064.4	-322.1	909.0	786.0	123.03	7.388		
16,245.0	8,947.1	17,326.8	9,761.7	59.5	59.6	-154.24	-7,109.4	-322.5	909.0	785.3	123.70	7.348		
16,300.0	8,947.2	17,381.8	9,761.7	59.9	60.0	-154.24	-7,164.4	-322.9	908.9	784.4	124.52	7.299		
16,340.0	8,947.3	17,421.8	9,761.8	60.2	60.3	-154.24	-7,204.4	-323.3	908.9	783.8	125.11	7.264		
16,400.0	8,947.4	17,481.8	9,761.8	60.6	60.8	-154.24	-7,264.4	-323.8	908.8	782.8	126.01	7.213		
16,435.0	8,947.5	17,516.8	9,761.8	60.9	61.0	-154.24	-7,299.4	-324.1	908.8	782.3	126.53	7.183		
16,500.0	8,947.6	17,581.8	9,761.9	61.3	61.5	-154.24	-7,364.4	-324.7	908.8	781.3	127.50	7.128		
16,530.0	8,947.6	17,611.8	9,761.9	61.5	61.7	-154.24	-7,394.4	-325.0	908.7	780.8	127.95	7.102		
16,600.0	8,947.7	17,681.8	9,762.0	62.1	62.3	-154.24	-7,464.4	-325.6	908.7	779.7	128.99	7.044		
16,625.0	8,947.8	17,706.8	9,762.0	62.2	62.4	-154.24	-7,489.4	-325.8	908.7	779.3	129.37	7.024		
16,700.0	8,947.9	17,781.8	9,762.1	62.8	63.0	-154.23	-7,564.4	-326.5	908.6	778.1	130.49	6.963		
16,720.0	8,947.9	17,801.8	9,762.1	62.9	63.1	-154.23	-7,584.4	-326.7	908.6	777.8	130.79	6.947		
16,800.0	8,948.0	17,881.8	9,762.1	63.5	63.7	-154.23	-7,664.4	-327.4	908.5	776.6	131.99	6.884		
16,815.0	8,948.1	17,896.8	9,762.1	63.6	63.8	-154.23	-7,679.4	-327.5	908.5	776.3	132.21	6.872		
16,900.0	8,948.2	17,981.8	9,762.2	64.2	64.5	-154.23	-7,764.4	-328.3	908.5	775.0	133.49	6.806		
16,910.0	8,948.2	17,991.8	9,762.2	64.3	64.6	-154.23	-7,774.4	-328.4	908.5	774.8	133.64	6.798		
17,000.0	8,948.4	18,081.8	9,762.3	64.9	65.2	-154.23	-7,864.4	-329.1	908.4	773.4	134.98	6.730		
17,005.0	8,948.4	18,086.8	9,762.3	65.0	65.3	-154.23	-7,869.4	-329.2	908.4	773.3	135.06	6.726		
17,100.0	8,948.5	18,181.8	9,762.4	65.7	66.0	-154.22	-7,964.4	-330.0	908.3	771.8	136.49	6.655		
17,195.0	8,948.7	18,276.8	9,762.4	66.4	66.7	-154.22	-8,059.4	-330.9	908.2	770.3	137.91	6.586		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
17,200.0	8,948.7	18,281.8	9,762.5	66.4	66.7	-154.22	-8,064.4	-330.9	908.2	770.3	137.99	6.582		
17,290.0	8,948.8	18,371.8	9,762.5	67.1	67.4	-154.22	-8,154.4	-331.7	908.2	768.8	139.34	6.518		
17,300.0	8,948.8	18,381.8	9,762.5	67.1	67.5	-154.22	-8,164.4	-331.8	908.2	768.7	139.49	6.511		
17,385.0	8,949.0	18,466.8	9,762.6	67.8	68.1	-154.22	-8,249.4	-332.6	908.1	767.3	140.77	6.451		
17,400.0	8,949.0	18,481.8	9,762.6	67.9	68.2	-154.22	-8,264.4	-332.7	908.1	767.1	141.00	6.441		
17,480.0	8,949.1	18,561.8	9,762.7	68.4	68.8	-154.22	-8,344.4	-333.4	908.0	765.8	142.20	6.386		
17,500.0	8,949.2	18,581.8	9,762.7	68.6	68.9	-154.22	-8,364.4	-333.6	908.0	765.5	142.50	6.372		
17,575.0	8,949.3	18,656.8	9,762.7	69.1	69.5	-154.21	-8,439.4	-334.3	908.0	764.3	143.63	6.321		
17,600.0	8,949.3	18,681.8	9,762.8	69.3	69.7	-154.21	-8,464.4	-334.5	907.9	763.9	144.01	6.305		
17,670.0	8,949.4	18,751.8	9,762.8	69.8	70.2	-154.21	-8,534.3	-335.1	907.9	762.8	145.07	6.258		
17,700.0	8,949.5	18,781.8	9,762.8	70.1	70.4	-154.21	-8,564.3	-335.4	907.9	762.4	145.52	6.239		
17,765.0	8,949.6	18,846.8	9,762.9	70.5	70.9	-154.21	-8,629.3	-335.9	907.8	761.3	146.50	6.197		
17,800.0	8,949.7	18,881.8	9,762.9	70.8	71.2	-154.21	-8,664.3	-336.2	907.8	760.8	147.03	6.174		
17,860.0	8,949.8	18,941.8	9,763.0	71.2	71.6	-154.21	-8,724.3	-336.8	907.8	759.8	147.93	6.136		
17,900.0	8,949.8	18,981.8	9,763.0	71.5	71.9	-154.21	-8,764.3	-337.1	907.7	759.2	148.54	6.111		
17,955.0	8,949.9	19,036.8	9,763.0	71.9	72.3	-154.21	-8,819.3	-337.6	907.7	758.3	149.37	6.077		
18,000.0	8,950.0	19,081.8	9,763.1	72.3	72.7	-154.20	-8,864.3	-338.0	907.7	757.6	150.05	6.049		
18,050.0	8,950.1	19,131.8	9,763.1	72.6	73.0	-154.20	-8,914.3	-338.5	907.6	756.8	150.81	6.018		
18,100.0	8,950.1	19,181.8	9,763.2	73.0	73.4	-154.20	-8,964.3	-338.9	907.6	756.0	151.56	5.988		
18,145.0	8,950.2	19,226.8	9,763.2	73.3	73.8	-154.20	-9,009.3	-339.3	907.5	755.3	152.24	5.961		
18,200.0	8,950.3	19,281.8	9,763.2	73.7	74.2	-154.20	-9,064.3	-339.8	907.5	754.4	153.08	5.928		
18,240.0	8,950.4	19,321.8	9,763.3	74.0	74.5	-154.20	-9,104.3	-340.2	907.5	753.8	153.68	5.905		
18,300.0	8,950.5	19,381.8	9,763.3	74.5	74.9	-154.20	-9,164.3	-340.7	907.4	752.8	154.59	5.870		
18,335.0	8,950.5	19,416.8	9,763.4	74.7	75.2	-154.20	-9,199.3	-341.0	907.4	752.3	155.12	5.850		
18,400.0	8,950.6	19,481.8	9,763.4	75.2	75.7	-154.19	-9,264.3	-341.6	907.4	751.3	156.11	5.812		
18,430.0	8,950.7	19,511.8	9,763.4	75.4	75.9	-154.19	-9,294.3	-341.8	907.3	750.8	156.56	5.795		
18,500.0	8,950.8	19,581.8	9,763.5	75.9	76.4	-154.19	-9,364.3	-342.5	907.3	749.7	157.62	5.756		
18,525.0	8,950.8	19,606.8	9,763.5	76.1	76.6	-154.19	-9,389.3	-342.7	907.3	749.3	158.00	5.742		
18,600.0	8,950.9	19,681.8	9,763.6	76.7	77.2	-154.19	-9,464.3	-343.3	907.2	748.1	159.14	5.701		
18,620.0	8,951.0	19,701.8	9,763.6	76.8	77.3	-154.19	-9,484.3	-343.5	907.2	747.8	159.44	5.690		
18,700.0	8,951.1	19,781.8	9,763.6	77.4	77.9	-154.19	-9,564.3	-344.2	907.1	746.5	160.66	5.646		
18,715.0	8,951.1	19,796.8	9,763.7	77.5	78.0	-154.19	-9,579.3	-344.4	907.1	746.2	160.89	5.638		
18,800.0	8,951.3	19,881.8	9,763.7	78.1	78.7	-154.19	-9,664.3	-345.1	907.1	744.9	162.18	5.593		
18,810.0	8,951.3	19,891.8	9,763.7	78.2	78.7	-154.19	-9,674.3	-345.2	907.1	744.7	162.33	5.588		
18,900.0	8,951.4	19,981.8	9,763.8	78.9	79.4	-154.18	-9,764.3	-346.0	907.0	743.3	163.70	5.541		
18,905.0	8,951.4	19,986.8	9,763.8	78.9	79.5	-154.18	-9,769.3	-346.1	907.0	743.2	163.77	5.538		
19,000.0	8,951.6	20,081.8	9,763.9	79.6	80.2	-154.18	-9,864.3	-346.9	906.9	741.7	165.22	5.489		
19,095.0	8,951.7	20,176.8	9,764.0	80.3	80.9	-154.18	-9,959.3	-347.7	906.8	740.2	166.66	5.441		
19,100.0	8,951.8	20,181.8	9,764.0	80.4	80.9	-154.18	-9,964.3	-347.8	906.8	740.1	166.74	5.439		
19,190.0	8,951.9	20,271.8	9,764.0	81.0	81.6	-154.18	-10,054.3	-348.6	906.8	738.7	168.11	5.394		
19,200.0	8,951.9	20,281.8	9,764.0	81.1	81.7	-154.18	-10,064.3	-348.7	906.8	738.5	168.26	5.389		
19,285.0	8,952.1	20,366.8	9,764.1	81.7	82.3	-154.17	-10,149.3	-349.4	906.7	737.2	169.55	5.348		
19,300.0	8,952.1	20,381.8	9,764.1	81.8	82.4	-154.17	-10,164.3	-349.6	906.7	736.9	169.78	5.340		
19,380.0	8,952.2	20,461.8	9,764.2	82.4	83.0	-154.17	-10,244.3	-350.3	906.6	735.6	171.00	5.302		
19,400.0	8,952.2	20,481.8	9,764.2	82.6	83.2	-154.17	-10,264.3	-350.4	906.6	735.3	171.30	5.292		
19,475.0	8,952.4	20,556.8	9,764.3	83.1	83.7	-154.17	-10,339.3	-351.1	906.6	734.1	172.45	5.257		
19,500.0	8,952.4	20,581.8	9,764.3	83.3	83.9	-154.17	-10,364.3	-351.3	906.5	733.7	172.83	5.245		
19,570.0	8,952.5	20,651.8	9,764.3	83.8	84.4	-154.17	-10,434.3	-352.0	906.5	732.6	173.90	5.213		
19,600.0	8,952.6	20,681.8	9,764.4	84.1	84.7	-154.17	-10,464.3	-352.2	906.5	732.1	174.35	5.199		
19,665.0	8,952.7	20,746.8	9,764.4	84.6	85.2	-154.17	-10,529.3	-352.8	906.4	731.1	175.34	5.169		
19,700.0	8,952.7	20,781.8	9,764.4	84.8	85.4	-154.17	-10,564.3	-353.1	906.4	730.5	175.88	5.154		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Measured	Reference	Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Rule Assigned:		Warning	
Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
19,760.0	8,952.8	20,841.8	9,764.5	85.3	85.9	-154.16	-10,624.3	-353.6	906.4	729.6	176.79	5.127		
19,800.0	8,952.9	20,881.8	9,764.5	85.6	86.2	-154.16	-10,664.3	-354.0	906.3	728.9	177.40	5.109		
19,855.0	8,953.0	20,936.8	9,764.6	86.0	86.6	-154.16	-10,719.3	-354.5	906.3	728.0	178.24	5.085		
19,900.0	8,953.0	20,981.8	9,764.6	86.3	86.9	-154.16	-10,764.3	-354.9	906.3	727.3	178.93	5.065		
19,950.0	8,953.1	21,031.8	9,764.6	86.7	87.3	-154.16	-10,814.3	-355.3	906.2	726.5	179.69	5.043		
20,000.0	8,953.2	21,081.8	9,764.7	87.0	87.7	-154.16	-10,864.3	-355.8	906.2	725.7	180.46	5.022		
20,045.0	8,953.3	21,126.8	9,764.7	87.4	88.0	-154.16	-10,909.3	-356.2	906.1	725.0	181.14	5.002		
20,100.0	8,953.4	21,181.8	9,764.7	87.8	88.4	-154.16	-10,964.3	-356.7	906.1	724.1	181.98	4.979		
20,140.0	8,953.4	21,221.8	9,764.8	88.1	88.7	-154.15	-11,004.2	-357.0	906.1	723.5	182.59	4.962		
20,200.0	8,953.5	21,281.8	9,764.8	88.5	89.2	-154.15	-11,064.2	-357.5	906.0	722.5	183.51	4.937		
20,235.0	8,953.6	21,316.8	9,764.9	88.8	89.5	-154.15	-11,099.2	-357.9	906.0	722.0	184.05	4.923		
20,300.0	8,953.7	21,381.8	9,764.9	89.3	89.9	-154.15	-11,164.2	-358.4	906.0	720.9	185.04	4.896		
20,330.0	8,953.7	21,411.8	9,764.9	89.5	90.2	-154.15	-11,194.2	-358.7	905.9	720.4	185.50	4.884		
20,400.0	8,953.9	21,481.8	9,765.0	90.0	90.7	-154.15	-11,264.2	-359.3	905.9	719.3	186.57	4.855		
20,425.0	8,953.9	21,506.8	9,765.0	90.2	90.9	-154.15	-11,289.2	-359.5	905.9	718.9	186.95	4.845		
20,500.0	8,954.0	21,581.8	9,765.1	90.8	91.4	-154.15	-11,364.2	-360.2	905.8	717.7	188.10	4.816		
20,520.0	8,954.1	21,601.8	9,765.1	90.9	91.6	-154.15	-11,384.2	-360.4	905.8	717.4	188.40	4.808		
20,600.0	8,954.2	21,681.8	9,765.1	91.5	92.2	-154.14	-11,464.2	-361.1	905.7	716.1	189.63	4.776		
20,615.0	8,954.2	21,696.8	9,765.2	91.6	92.3	-154.14	-11,479.2	-361.2	905.7	715.9	189.86	4.771		
20,700.0	8,954.3	21,781.8	9,765.2	92.3	93.0	-154.14	-11,564.2	-362.0	905.7	714.5	191.16	4.738		
20,710.0	8,954.4	21,791.8	9,765.2	92.3	93.0	-154.14	-11,574.2	-362.1	905.7	714.3	191.31	4.734		
20,800.0	8,954.5	21,881.8	9,765.3	93.0	93.7	-154.14	-11,664.2	-362.9	905.6	712.9	192.69	4.700		
20,805.0	8,954.5	21,886.8	9,765.3	93.0	93.7	-154.14	-11,669.2	-362.9	905.6	712.8	192.77	4.698		
20,900.0	8,954.7	21,981.8	9,765.4	93.7	94.5	-154.14	-11,764.2	-363.8	905.5	711.3	194.22	4.662		
20,995.0	8,954.8	22,076.8	9,765.5	94.5	95.2	-154.14	-11,859.2	-364.6	905.4	709.8	195.68	4.627		
21,000.0	8,954.8	22,081.8	9,765.5	94.5	95.2	-154.14	-11,864.2	-364.6	905.4	709.7	195.75	4.625		
21,090.0	8,955.0	22,171.8	9,765.5	95.2	95.9	-154.13	-11,954.2	-365.4	905.4	708.2	197.13	4.593		
21,100.0	8,955.0	22,181.8	9,765.5	95.2	96.0	-154.13	-11,964.2	-365.5	905.4	708.1	197.29	4.589		
21,185.0	8,955.1	22,266.8	9,765.6	95.9	96.6	-154.13	-12,049.2	-366.3	905.3	706.7	198.59	4.559		
21,200.0	8,955.1	22,281.8	9,765.6	96.0	96.7	-154.13	-12,064.2	-366.4	905.3	706.5	198.82	4.553		
21,280.0	8,955.3	22,361.8	9,765.7	96.6	97.3	-154.13	-12,144.2	-367.1	905.2	705.2	200.05	4.525		
21,300.0	8,955.3	22,381.8	9,765.7	96.7	97.5	-154.13	-12,164.2	-367.3	905.2	704.9	200.35	4.518		
21,375.0	8,955.4	22,456.8	9,765.8	97.3	98.0	-154.13	-12,239.2	-368.0	905.2	703.7	201.50	4.492		
21,400.0	8,955.5	22,481.8	9,765.8	97.5	98.2	-154.13	-12,264.2	-368.2	905.1	703.3	201.89	4.483		
21,470.0	8,955.6	22,551.8	9,765.8	98.0	98.8	-154.12	-12,334.2	-368.8	905.1	702.1	202.96	4.459		
21,500.0	8,955.6	22,581.8	9,765.9	98.2	99.0	-154.12	-12,364.2	-369.1	905.1	701.6	203.42	4.449		
21,565.0	8,955.7	22,646.8	9,765.9	98.7	99.5	-154.12	-12,429.2	-369.7	905.0	700.6	204.42	4.427		
21,600.0	8,955.8	22,681.8	9,765.9	99.0	99.7	-154.12	-12,464.2	-370.0	905.0	700.0	204.95	4.416		
21,660.0	8,955.9	22,741.8	9,766.0	99.4	100.2	-154.12	-12,524.2	-370.5	905.0	699.1	205.87	4.396		
21,700.0	8,956.0	22,781.8	9,766.0	99.7	100.5	-154.12	-12,564.2	-370.8	904.9	698.4	206.49	4.382		
21,755.0	8,956.0	22,836.8	9,766.1	100.1	100.9	-154.12	-12,619.2	-371.3	904.9	697.5	207.33	4.364		
21,800.0	8,956.1	22,881.8	9,766.1	100.5	101.3	-154.12	-12,664.2	-371.7	904.8	696.8	208.02	4.350		
21,850.0	8,956.2	22,931.8	9,766.1	100.9	101.6	-154.12	-12,714.2	-372.2	904.8	696.0	208.79	4.334		
21,900.0	8,956.3	22,981.8	9,766.2	101.2	102.0	-154.11	-12,764.2	-372.6	904.8	695.2	209.56	4.318		
21,945.0	8,956.4	23,026.8	9,766.2	101.6	102.4	-154.11	-12,809.2	-373.0	904.7	694.5	210.25	4.303		
22,000.0	8,956.4	23,081.8	9,766.3	102.0	102.8	-154.11	-12,864.2	-373.5	904.7	693.6	211.10	4.286		
22,040.0	8,956.5	23,121.8	9,766.3	102.3	103.1	-154.11	-12,904.2	-373.9	904.7	693.0	211.71	4.273		
22,100.0	8,956.6	23,181.8	9,766.3	102.7	103.5	-154.11	-12,964.2	-374.4	904.6	692.0	212.63	4.254		
22,135.0	8,956.7	23,216.8	9,766.4	103.0	103.8	-154.11	-12,999.2	-374.7	904.6	691.4	213.17	4.244		
22,200.0	8,956.8	23,281.8	9,766.4	103.5	104.3	-154.11	-13,064.2	-375.3	904.6	690.4	214.17	4.224		
22,230.0	8,956.8	23,311.8	9,766.4	103.7	104.5	-154.11	-13,094.2	-375.6	904.5	689.9	214.63	4.214		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9240-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
22,300.0	8,956.9	23,381.8	9,766.5	104.2	105.0	-154.11	-13,164.2	-376.2	904.5	688.8	215.70	4.193
22,325.0	8,957.0	23,406.8	9,766.5	104.4	105.2	-154.10	-13,189.2	-376.4	904.5	688.4	216.09	4.186
22,400.0	8,957.1	23,481.8	9,766.6	105.0	105.8	-154.10	-13,264.2	-377.1	904.4	687.2	217.24	4.163
22,420.0	8,957.1	23,501.8	9,766.6	105.1	105.9	-154.10	-13,284.2	-377.2	904.4	686.8	217.55	4.157
22,500.0	8,957.2	23,581.8	9,766.7	105.7	106.5	-154.10	-13,364.2	-377.9	904.3	685.6	218.78	4.134
22,515.0	8,957.3	23,596.8	9,766.7	105.8	106.7	-154.10	-13,379.2	-378.1	904.3	685.3	219.01	4.129
22,600.0	8,957.4	23,681.8	9,766.7	106.5	107.3	-154.10	-13,464.2	-378.8	904.3	683.9	220.32	4.104
22,610.0	8,957.4	23,691.8	9,766.7	106.6	107.4	-154.10	-13,474.1	-378.9	904.2	683.8	220.47	4.101
22,700.0	8,957.6	23,781.8	9,766.8	107.2	108.1	-154.10	-13,564.1	-379.7	904.2	682.3	221.86	4.076
22,705.0	8,957.6	23,786.8	9,766.8	107.3	108.1	-154.10	-13,569.1	-379.8	904.2	682.2	221.93	4.074
22,800.0	8,957.7	23,881.8	9,766.9	108.0	108.8	-154.09	-13,664.1	-380.6	904.1	680.7	223.39	4.047
22,895.0	8,957.9	23,976.8	9,767.0	108.7	109.5	-154.09	-13,759.1	-381.5	904.0	679.2	224.86	4.021
22,900.0	8,957.9	23,981.8	9,767.0	108.7	109.6	-154.09	-13,764.1	-381.5	904.0	679.1	224.93	4.019
22,990.0	8,958.0	24,071.8	9,767.0	109.4	110.3	-154.09	-13,854.1	-382.3	904.0	677.6	226.32	3.994
23,000.0	8,958.1	24,081.8	9,767.0	109.5	110.3	-154.09	-13,864.1	-382.4	904.0	677.5	226.47	3.991
23,085.0	8,958.2	24,166.8	9,767.1	110.1	111.0	-154.09	-13,949.1	-383.1	903.9	676.1	227.78	3.968
23,100.0	8,958.2	24,181.8	9,767.1	110.2	111.1	-154.09	-13,964.1	-383.3	903.9	675.9	228.01	3.964
23,180.0	8,958.3	24,261.8	9,767.2	110.8	111.7	-154.08	-14,044.1	-384.0	903.8	674.6	229.24	3.943
23,200.0	8,958.4	24,281.8	9,767.2	111.0	111.8	-154.08	-14,064.1	-384.2	903.8	674.3	229.55	3.937
23,275.0	8,958.5	24,356.8	9,767.3	111.5	112.4	-154.08	-14,139.1	-384.8	903.8	673.1	230.71	3.917
23,300.0	8,958.5	24,381.8	9,767.3	111.7	112.6	-154.08	-14,164.1	-385.0	903.7	672.6	231.09	3.911
23,370.0	8,958.7	24,451.8	9,767.3	112.3	113.1	-154.08	-14,234.1	-385.7	903.7	671.5	232.17	3.892
23,400.0	8,958.7	24,481.8	9,767.4	112.5	113.4	-154.08	-14,264.1	-385.9	903.7	671.0	232.63	3.885
23,465.0	8,958.8	24,546.8	9,767.4	113.0	113.9	-154.08	-14,329.1	-386.5	903.6	670.0	233.63	3.868
23,500.0	8,958.9	24,581.8	9,767.4	113.2	114.1	-154.08	-14,364.1	-386.8	903.6	669.4	234.17	3.859
23,560.0	8,959.0	24,641.8	9,767.5	113.7	114.6	-154.08	-14,424.1	-387.4	903.5	668.5	235.10	3.843
23,600.0	8,959.0	24,681.8	9,767.5	114.0	114.9	-154.08	-14,464.1	-387.7	903.5	667.8	235.71	3.833
23,655.0	8,959.1	24,736.8	9,767.6	114.4	115.3	-154.07	-14,519.1	-388.2	903.5	666.9	236.56	3.819
23,700.0	8,959.2	24,781.8	9,767.6	114.7	115.6	-154.07	-14,564.1	-388.6	903.4	666.2	237.25	3.808
23,750.0	8,959.3	24,831.8	9,767.6	115.1	116.0	-154.07	-14,614.1	-389.0	903.4	665.4	238.02	3.795
23,800.0	8,959.3	24,881.8	9,767.7	115.5	116.4	-154.07	-14,664.1	-389.5	903.4	664.6	238.79	3.783
23,845.0	8,959.4	24,926.8	9,767.7	115.8	116.7	-154.07	-14,709.1	-389.9	903.3	663.8	239.49	3.772
23,900.0	8,959.5	24,981.8	9,767.8	116.3	117.2	-154.07	-14,764.1	-390.4	903.3	663.0	240.34	3.758
23,940.0	8,959.6	25,021.8	9,767.8	116.6	117.5	-154.07	-14,804.1	-390.7	903.3	662.3	240.95	3.749
24,000.0	8,959.7	25,081.8	9,767.8	117.0	117.9	-154.07	-14,864.1	-391.3	903.2	661.3	241.88	3.734
24,035.0	8,959.7	25,116.8	9,767.9	117.3	118.2	-154.07	-14,899.1	-391.6	903.2	660.8	242.42	3.726
24,072.6	8,959.8	25,154.3	9,767.9	117.5	118.5	-154.06	-14,936.7	-391.9	903.2	660.2	243.00	3.717
24,100.0	8,959.8	25,181.8	9,767.9	117.8	118.7	-154.06	-14,964.1	-392.1	903.1	659.7	243.42	3.710
24,130.0	8,959.9	25,211.8	9,767.9	118.0	118.9	-154.06	-14,994.1	-392.4	903.1	659.2	243.88	3.703
24,202.6	8,960.0	25,284.3	9,768.0	118.5	119.4	-154.06	-15,066.7	-393.1	903.1	658.1	245.00	3.686 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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-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	-11.49	149.5	-30.4	152.6				
95.0	95.0	91.1	91.1	3.0	3.0	-11.49	149.5	-30.4	152.6	146.5	6.03	25.280	
100.0	100.0	96.1	96.1	3.0	3.0	-11.49	149.5	-30.4	152.6	146.5	6.04	25.259	
190.0	190.0	186.1	186.1	3.1	3.1	-11.49	149.5	-30.4	152.6	146.3	6.25	24.403	
200.0	200.0	196.1	196.1	3.1	3.1	-11.49	149.5	-30.4	152.6	146.3	6.29	24.269	
285.0	285.0	281.1	281.1	3.3	3.2	-11.49	149.5	-30.4	152.6	146.1	6.50	23.487	
300.0	300.0	296.1	296.1	3.3	3.3	-11.49	149.5	-30.4	152.6	146.0	6.54	23.338	
380.0	380.0	376.1	376.1	3.4	3.4	-11.49	149.5	-30.4	152.6	145.8	6.73	22.661	
400.0	400.0	396.1	396.1	3.4	3.4	-11.49	149.5	-30.4	152.6	145.8	6.78	22.486	
475.0	475.0	471.1	471.1	3.5	3.5	-11.49	149.5	-30.4	152.6	145.6	6.97	21.899	
500.0	500.0	496.1	496.1	3.5	3.5	-11.49	149.5	-30.4	152.6	145.5	7.03	21.700	
570.0	570.0	566.1	566.1	3.6	3.6	-11.49	149.5	-30.4	152.6	145.4	7.20	21.191	
600.0	600.0	596.1	596.1	3.6	3.6	-11.49	149.5	-30.4	152.6	145.3	7.27	20.973	
665.0	665.0	661.1	661.1	3.7	3.7	-11.49	149.5	-30.4	152.6	145.1	7.43	20.532	
700.0	700.0	696.1	696.1	3.8	3.8	-11.49	149.5	-30.4	152.6	145.0	7.52	20.296	
760.0	760.0	756.1	756.1	3.8	3.8	-11.49	149.5	-30.4	152.6	144.9	7.66	19.917	
800.0	800.0	796.1	796.1	3.9	3.9	-11.49	149.5	-30.4	152.6	144.8	7.76	19.666	
855.0	855.0	851.1	851.1	4.0	3.9	-11.49	149.5	-30.4	152.6	144.7	7.89	19.340	
900.0	900.0	896.1	896.1	4.0	4.0	-11.49	149.5	-30.4	152.6	144.6	8.00	19.076	
950.0	950.0	946.1	946.1	4.1	4.1	-11.49	149.5	-30.4	152.6	144.4	8.12	18.798	
1,000.0	1,000.0	996.1	996.1	4.1	4.1	-11.49	149.5	-30.4	152.6	144.3	8.24	18.524	
1,045.0	1,045.0	1,041.1	1,041.1	4.2	4.2	-11.49	149.5	-30.4	152.6	144.2	8.34	18.288	
1,100.0	1,100.0	1,096.1	1,096.1	4.2	4.2	-11.49	149.5	-30.4	152.6	144.1	8.47	18.005	
1,140.0	1,140.0	1,136.1	1,136.1	4.3	4.3	-11.49	149.5	-30.4	152.6	144.0	8.57	17.807	
1,200.0	1,200.0	1,196.1	1,196.1	4.4	4.4	-11.49	149.5	-30.4	152.6	143.8	8.71	17.516	
1,235.0	1,235.0	1,231.1	1,231.1	4.4	4.4	-11.49	149.5	-30.4	152.6	143.8	8.79	17.352	
1,300.0	1,300.0	1,296.1	1,296.1	4.5	4.5	-11.49	149.5	-30.4	152.6	143.6	8.95	17.054	
1,330.0	1,330.0	1,326.1	1,326.1	4.5	4.5	-11.49	149.5	-30.4	152.6	143.5	9.02	16.922	
1,400.0	1,400.0	1,396.1	1,396.1	4.6	4.6	-11.49	149.5	-30.4	152.6	143.4	9.18	16.618	
1,425.0	1,425.0	1,421.1	1,421.1	4.6	4.6	-11.49	149.5	-30.4	152.6	143.3	9.24	16.513	
1,500.0	1,500.0	1,496.1	1,496.1	4.7	4.7	-11.49	149.5	-30.4	152.6	143.1	9.41	16.205	
1,520.0	1,520.0	1,515.6	1,515.6	4.7	4.7	49.34	149.5	-30.4	152.5	143.1	9.46	16.120	
1,600.0	1,600.0	1,593.2	1,593.2	4.9	4.8	49.35	150.1	-31.8	152.3	142.6	9.68	15.737	
1,615.0	1,615.0	1,607.8	1,607.8	4.9	4.9	49.35	150.3	-32.3	152.3	142.5	9.73	15.644	
1,700.0	1,699.8	1,690.3	1,690.1	5.1	5.0	49.34	152.0	-36.2	151.8	141.7	10.06	15.091	
1,710.0	1,709.8	1,700.0	1,699.8	5.1	5.0	49.33	152.3	-36.8	151.7	141.6	10.10	15.026	
1,800.0	1,799.5	1,787.3	1,786.8	5.3	5.3	49.28	155.3	-43.6	150.9	140.4	10.45	14.446	
1,805.0	1,804.4	1,792.2	1,791.6	5.3	5.3	49.28	155.5	-44.0	150.8	140.4	10.47	14.414	
1,900.0	1,898.7	1,884.3	1,883.2	5.6	5.5	49.18	159.9	-54.0	149.7	138.8	10.85	13.800	
1,995.0	1,992.5	1,976.5	1,974.4	5.9	5.8	49.05	165.4	-66.6	148.3	137.0	11.25	13.182	
2,000.0	1,997.5	1,981.4	1,979.1	5.9	5.8	49.05	165.7	-67.3	148.2	136.9	11.27	13.150	
2,090.0	2,085.8	2,068.8	2,065.0	6.2	6.1	48.89	172.2	-81.9	146.6	134.9	11.67	12.559	
2,100.0	2,095.6	2,078.5	2,074.5	6.3	6.2	48.87	172.9	-83.7	146.4	134.6	11.71	12.494	
2,185.0	2,178.5	2,161.0	2,155.1	6.6	6.5	48.67	180.1	-99.9	144.6	132.4	12.12	11.929	
2,200.1	2,193.1	2,175.6	2,169.4	6.6	6.5	48.64	181.4	-103.0	144.2	132.0	12.19	11.830	
2,280.0	2,270.7	2,254.8	2,246.2	6.9	6.8	48.22	189.1	-120.4	142.7	130.2	12.58	11.350	
2,300.0	2,290.1	2,274.8	2,265.6	6.9	6.8	48.10	191.1	-124.9	142.4	129.7	12.67	11.234	
2,375.0	2,362.9	2,349.8	2,338.4	7.2	7.1	47.66	198.4	-141.5	141.1	128.0	13.06	10.799	
2,400.0	2,387.1	2,374.8	2,362.6	7.3	7.2	47.51	200.8	-147.0	140.6	127.4	13.19	10.658	
2,470.0	2,455.0	2,444.8	2,430.5	7.5	7.4	47.09	207.6	-162.5	139.4	125.8	13.58	10.267	
2,500.0	2,484.1	2,474.7	2,459.6	7.6	7.5	46.91	210.5	-169.1	138.9	125.1	13.74	10.103	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
2,565.0	2,547.2	2,539.7	2,522.7	7.8	7.7	46.50	216.9	-183.5	137.7	123.6	14.12	9.755	
2,600.0	2,581.2	2,574.7	2,556.6	8.0	7.9	46.29	220.3	-191.3	137.1	122.8	14.32	9.572	
2,660.0	2,639.4	2,634.7	2,614.8	8.2	8.1	45.91	226.1	-204.6	136.1	121.4	14.69	9.265	
2,700.0	2,678.2	2,674.7	2,653.7	8.4	8.2	45.65	230.0	-213.4	135.4	120.5	14.94	9.066	
2,755.0	2,731.6	2,729.7	2,707.0	8.6	8.5	45.29	235.4	-225.6	134.5	119.2	15.28	8.797	
2,800.0	2,775.2	2,774.7	2,750.7	8.7	8.6	45.00	239.8	-235.5	133.7	118.1	15.57	8.585	
2,850.0	2,823.7	2,824.7	2,799.2	8.9	8.8	44.67	244.6	-246.6	132.8	116.9	15.90	8.354	
2,900.0	2,872.3	2,874.6	2,847.7	9.1	9.0	44.33	249.5	-257.7	132.0	115.8	16.24	8.129	
2,945.0	2,915.9	2,919.6	2,891.3	9.3	9.2	44.02	253.9	-267.6	131.3	114.7	16.55	7.933	
3,000.0	2,969.3	2,974.6	2,944.7	9.5	9.4	43.64	259.2	-279.8	130.3	113.4	16.93	7.699	
3,040.0	3,008.1	3,014.6	2,983.5	9.7	9.6	43.36	263.1	-288.7	129.7	112.5	17.21	7.534	
3,100.0	3,066.3	3,074.6	3,041.7	9.9	9.8	42.94	269.0	-302.0	128.7	111.0	17.64	7.294	
3,135.0	3,100.3	3,109.6	3,075.6	10.1	10.0	42.69	272.4	-309.7	128.1	110.2	17.90	7.158	
3,200.0	3,163.3	3,174.6	3,138.7	10.4	10.3	42.22	278.7	-324.1	127.1	108.7	18.38	6.912	
3,230.0	3,192.5	3,204.6	3,167.8	10.5	10.4	42.00	281.6	-330.7	126.6	108.0	18.61	6.802	
3,300.0	3,260.4	3,274.5	3,235.7	10.8	10.7	41.48	288.5	-346.2	125.5	106.3	19.14	6.553	
3,325.0	3,284.6	3,299.5	3,259.9	10.9	10.8	41.29	290.9	-351.8	125.1	105.7	19.34	6.467	
3,400.0	3,357.4	3,374.5	3,332.7	11.2	11.1	40.72	298.2	-368.4	123.9	103.9	19.93	6.216	
3,420.0	3,376.8	3,394.5	3,352.1	11.3	11.2	40.56	300.1	-372.8	123.6	103.5	20.09	6.151	
3,500.0	3,454.4	3,474.5	3,429.7	11.7	11.5	39.94	307.9	-390.5	122.3	101.6	20.73	5.899	
3,515.0	3,469.0	3,489.5	3,444.2	11.7	11.6	39.82	309.4	-393.8	122.1	101.2	20.86	5.853	
3,600.0	3,551.5	3,574.5	3,526.7	12.1	12.0	39.14	317.7	-412.6	120.8	99.2	21.56	5.601	
3,610.0	3,561.2	3,584.5	3,536.4	12.1	12.0	39.06	318.6	-414.9	120.6	99.0	21.64	5.572	
3,700.0	3,648.5	3,674.4	3,623.7	12.5	12.4	38.32	327.4	-434.8	119.2	96.8	22.41	5.321	
3,705.0	3,653.3	3,679.4	3,628.5	12.6	12.4	38.28	327.9	-435.9	119.2	96.7	22.45	5.308	
3,800.0	3,745.5	3,774.4	3,720.7	13.0	12.9	37.48	337.1	-456.9	117.8	94.5	23.28	5.059	
3,895.0	3,837.7	3,869.4	3,812.9	13.4	13.3	36.66	346.4	-478.0	116.4	92.2	24.12	4.824	
3,900.0	3,842.5	3,874.4	3,817.7	13.4	13.3	36.62	346.9	-479.1	116.3	92.1	24.17	4.812	
3,990.0	3,929.9	3,964.4	3,905.0	13.8	13.7	35.83	355.7	-499.0	115.0	90.0	24.98	4.603	
4,000.0	3,939.6	3,974.4	3,914.7	13.9	13.8	35.74	356.6	-501.2	114.9	89.8	25.08	4.580	
4,085.0	4,022.0	4,059.3	3,997.2	14.3	14.2	34.97	364.9	-520.0	113.7	87.8	25.86	4.394	
4,100.0	4,036.6	4,074.3	4,011.7	14.3	14.2	34.83	366.4	-523.3	113.4	87.4	26.00	4.362	
4,180.0	4,114.2	4,154.3	4,089.3	14.7	14.6	34.09	374.2	-541.0	112.3	85.6	26.76	4.198	
4,200.0	4,133.6	4,174.3	4,108.7	14.8	14.7	33.90	376.1	-545.5	112.1	85.1	26.95	4.158	
4,275.0	4,206.4	4,249.3	4,181.5	15.2	15.0	33.19	383.4	-562.1	111.0	83.4	27.68	4.012	
4,300.0	4,230.7	4,274.3	4,205.7	15.3	15.1	32.95	385.8	-567.6	110.7	82.8	27.92	3.965	
4,370.0	4,298.6	4,344.3	4,273.6	15.6	15.5	32.27	392.7	-583.1	109.8	81.2	28.61	3.838	
4,400.0	4,327.7	4,374.3	4,302.7	15.7	15.6	31.98	395.6	-589.7	109.4	80.5	28.90	3.785	
4,465.0	4,390.8	4,439.2	4,365.8	16.0	15.9	31.33	401.9	-604.1	108.5	79.0	29.55	3.673	
4,500.0	4,424.7	4,474.2	4,399.7	16.2	16.1	30.98	405.3	-611.9	108.1	78.2	29.90	3.615	
4,560.0	4,482.9	4,534.2	4,457.9	16.5	16.3	30.37	411.2	-625.2	107.3	76.8	30.51	3.519	
4,578.5	4,500.9	4,552.7	4,475.8	16.5	16.4	30.18	413.0	-629.3	107.1	76.4	30.69	3.490	
4,600.0	4,521.8	4,574.2	4,496.7	16.6	16.5	29.93	415.1	-634.0	106.9	76.0	30.91	3.459	
4,619.0	4,540.2	4,593.2	4,515.1	16.7	16.6	29.68	416.9	-638.2	106.9	75.7	31.11	3.434 CC	
4,655.0	4,575.3	4,629.2	4,550.1	16.9	16.8	29.12	420.4	-646.2	107.1	75.5	31.52	3.396 ES	
4,700.0	4,619.4	4,674.1	4,593.7	17.1	17.0	28.26	424.8	-656.2	107.9	75.8	32.06	3.365	
4,750.0	4,668.4	4,724.1	4,642.1	17.4	17.2	27.13	429.7	-667.2	109.6	76.9	32.69	3.352 SF	
4,800.0	4,717.7	4,773.9	4,690.5	17.6	17.5	25.85	434.5	-678.2	112.1	78.7	33.34	3.362	
4,845.0	4,762.1	4,818.8	4,734.0	17.8	17.7	24.59	438.9	-688.2	115.1	81.1	33.94	3.391	
4,900.0	4,816.5	4,873.5	4,787.1	18.0	17.9	22.97	444.2	-700.3	119.7	85.0	34.67	3.451	
4,940.0	4,856.2	4,913.2	4,825.6	18.2	18.1	21.76	448.1	-709.1	123.7	88.5	35.20	3.514	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-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	4,915.9	4,972.6	4,883.3	18.5	18.4	19.94	453.9	-722.2	130.8	94.8	35.99	3.634	
5,035.0	4,950.7	5,007.2	4,916.9	18.6	18.6	18.89	457.2	-729.9	135.5	99.1	36.43	3.721	
5,100.0	5,015.6	5,071.2	4,979.0	18.9	18.9	17.00	463.5	-744.1	145.6	108.3	37.23	3.910	
5,130.0	5,045.5	5,100.7	5,007.6	19.0	19.0	16.17	466.4	-750.6	150.7	113.1	37.57	4.011	
5,200.0	5,115.4	5,169.3	5,074.1	19.2	19.3	14.33	473.0	-765.8	164.0	125.6	38.35	4.275	
5,225.0	5,140.4	5,193.6	5,097.8	19.3	19.4	13.71	475.4	-771.2	169.1	130.6	38.58	4.384	
5,278.6	5,194.0	5,245.7	5,148.3	19.3	19.7	-48.37	480.5	-782.7	181.0	141.9	39.05	4.635	
5,300.0	5,215.4	5,266.5	5,168.5	19.3	19.8	-48.86	482.5	-787.3	185.9	146.7	39.20	4.744	
5,320.0	5,235.4	5,285.9	5,187.3	19.4	19.9	-49.29	484.4	-791.6	190.6	151.2	39.34	4.844	
5,400.0	5,315.4	5,363.6	5,262.6	19.4	20.2	-50.84	492.0	-808.8	209.2	169.3	39.88	5.246	
5,415.0	5,330.4	5,378.1	5,276.8	19.4	20.3	-51.09	493.4	-812.0	212.7	172.7	39.98	5.321	
5,500.0	5,415.4	5,460.6	5,356.8	19.4	20.7	-52.42	501.4	-830.3	232.7	192.1	40.52	5.742	
5,510.0	5,425.4	5,470.3	5,366.2	19.4	20.8	-52.56	502.4	-832.4	235.0	194.4	40.58	5.792	
5,600.0	5,515.4	5,557.6	5,450.9	19.5	21.2	-53.71	510.9	-851.8	256.3	215.1	41.12	6.232	
5,605.0	5,520.4	5,562.5	5,455.6	19.5	21.2	-53.77	511.3	-852.9	257.4	216.3	41.15	6.256	
5,700.0	5,615.4	5,654.6	5,545.1	19.5	21.6	-54.78	520.3	-873.3	279.9	238.2	41.70	6.713	
5,795.0	5,710.4	5,746.8	5,634.5	19.6	22.1	-55.65	529.3	-893.7	302.5	260.3	42.24	7.162	
5,800.0	5,715.4	5,751.7	5,639.2	19.6	22.1	-55.69	529.8	-894.8	303.7	261.4	42.27	7.186	
5,890.0	5,805.4	5,839.0	5,724.0	19.6	22.5	-56.39	538.3	-914.1	325.2	282.4	42.77	7.603	
5,900.0	5,815.4	5,848.7	5,733.4	19.6	22.6	-56.46	539.2	-916.2	327.5	284.7	42.82	7.649	
5,985.0	5,900.4	5,931.2	5,813.4	19.7	23.0	-57.04	547.3	-934.5	347.8	304.6	43.29	8.035	
6,000.0	5,915.4	5,945.7	5,827.5	19.7	23.0	-57.13	548.7	-937.7	351.4	308.1	43.37	8.103	
6,080.0	5,995.4	6,023.4	5,902.9	19.7	23.4	-57.61	556.2	-954.9	370.6	326.8	43.81	8.459	
6,100.0	6,015.4	6,042.8	5,921.7	19.7	23.5	-57.72	558.1	-959.2	375.4	331.4	43.92	8.547	
6,175.0	6,090.4	6,115.5	5,992.3	19.7	23.8	-58.11	565.2	-975.3	393.3	349.0	44.32	8.874	
6,200.0	6,115.4	6,139.8	6,015.8	19.8	24.0	-58.23	567.6	-980.7	399.3	354.9	44.46	8.982	
6,270.0	6,185.4	6,207.7	6,081.7	19.8	24.3	-58.56	574.2	-995.7	416.1	371.3	44.83	9.281	
6,300.0	6,215.4	6,236.8	6,110.0	19.8	24.4	-58.69	577.0	-1,002.2	423.3	378.3	45.00	9.407	
6,365.0	6,280.4	6,299.9	6,171.2	19.8	24.7	-58.96	583.2	-1,016.2	438.9	393.5	45.34	9.679	
6,400.0	6,315.4	6,333.9	6,204.1	19.8	24.9	-59.10	586.5	-1,023.7	447.3	401.8	45.53	9.824	
6,460.0	6,375.4	6,392.1	6,260.6	19.9	25.2	-59.32	592.2	-1,036.6	461.7	415.9	45.85	10.069	
6,500.0	6,415.4	6,430.9	6,298.3	19.9	25.4	-59.46	595.9	-1,045.2	471.3	425.3	46.06	10.232	
6,555.0	6,470.4	6,485.3	6,351.1	19.9	25.6	-59.65	601.2	-1,057.2	484.5	438.2	46.36	10.451	
6,600.0	6,515.4	6,538.1	6,402.4	19.9	25.9	-59.82	606.1	-1,068.3	494.9	448.2	46.65	10.608	
6,650.0	6,565.4	6,597.2	6,460.2	20.0	26.2	-59.98	611.2	-1,079.8	505.4	458.4	46.97	10.761	
6,700.0	6,615.4	6,656.8	6,518.7	20.0	26.4	-60.12	615.8	-1,090.3	514.9	467.7	47.25	10.897	
6,745.0	6,660.4	6,710.9	6,572.0	20.0	26.7	-60.23	619.5	-1,098.8	522.6	475.1	47.50	11.003	
6,800.0	6,715.4	6,777.4	6,637.8	20.0	27.0	-60.35	623.6	-1,108.0	530.9	483.1	47.77	11.114	
6,840.0	6,755.4	6,826.1	6,686.0	20.1	27.2	-60.42	626.2	-1,113.8	536.1	488.2	47.94	11.183	
6,900.0	6,815.4	6,899.5	6,758.9	20.1	27.5	-60.51	629.4	-1,121.2	542.7	494.5	48.17	11.265	
6,935.0	6,850.4	6,942.5	6,801.7	20.1	27.7	-60.55	631.0	-1,124.8	545.8	497.5	48.28	11.304	
7,000.0	6,915.4	7,022.6	6,881.7	20.1	28.0	-60.60	633.2	-1,129.8	550.2	501.8	48.46	11.356	
7,030.0	6,945.4	7,059.6	6,918.7	20.1	28.1	-60.62	633.9	-1,131.4	551.7	503.2	48.51	11.372	
7,100.0	7,015.4	7,146.2	7,005.2	20.2	28.3	-60.65	634.8	-1,133.5	553.5	505.0	48.53	11.406	
7,125.0	7,040.4	7,177.2	7,036.2	20.2	28.4	-60.65	634.9	-1,133.7	553.7	505.2	48.50	11.415	
7,200.0	7,115.4	7,252.5	7,111.5	20.2	28.4	-60.65	634.9	-1,133.7	553.7	505.1	48.56	11.403	
7,220.0	7,135.4	7,272.5	7,131.5	20.2	28.4	-60.65	634.9	-1,133.7	553.7	505.1	48.57	11.399	
7,300.0	7,215.4	7,352.5	7,211.5	20.3	28.4	-60.65	634.9	-1,133.7	553.7	505.0	48.64	11.384	
7,315.0	7,230.4	7,367.5	7,226.5	20.3	28.4	-60.65	634.9	-1,133.7	553.7	505.0	48.65	11.381	
7,400.0	7,315.4	7,452.5	7,311.5	20.3	28.5	-60.65	634.9	-1,133.7	553.7	505.0	48.72	11.365	
7,410.0	7,325.4	7,462.5	7,321.5	20.3	28.5	-60.65	634.9	-1,133.7	553.7	505.0	48.72	11.364	

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-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	7,415.4	7,552.5	7,411.5	20.4	28.5	-60.65	634.9	-1,133.7	553.7	504.9	48.80	11.347
7,505.0	7,420.4	7,557.5	7,416.5	20.4	28.5	-60.65	634.9	-1,133.7	553.7	504.9	48.80	11.346
7,600.0	7,515.4	7,652.5	7,511.5	20.4	28.5	-60.65	634.9	-1,133.7	553.7	504.8	48.88	11.328
7,695.0	7,610.4	7,747.5	7,606.5	20.5	28.6	-60.65	634.9	-1,133.7	553.7	504.7	48.95	11.310
7,700.0	7,615.4	7,752.5	7,611.5	20.5	28.6	-60.65	634.9	-1,133.7	553.7	504.7	48.96	11.309
7,790.0	7,705.4	7,842.5	7,701.5	20.5	28.6	-60.65	634.9	-1,133.7	553.7	504.6	49.03	11.292
7,800.0	7,715.4	7,852.5	7,711.5	20.5	28.6	-60.65	634.9	-1,133.7	553.7	504.6	49.04	11.290
7,885.0	7,800.4	7,937.5	7,796.5	20.6	28.6	-60.65	634.9	-1,133.7	553.7	504.6	49.11	11.274
7,900.0	7,815.4	7,952.5	7,811.5	20.6	28.6	-60.65	634.9	-1,133.7	553.7	504.6	49.12	11.271
7,980.0	7,895.4	8,032.5	7,891.5	20.6	28.6	-60.65	634.9	-1,133.7	553.7	504.5	49.19	11.256
8,000.0	7,915.4	8,052.5	7,911.5	20.6	28.7	-60.65	634.9	-1,133.7	553.7	504.5	49.21	11.252
8,075.0	7,990.4	8,127.5	7,986.5	20.7	28.7	-60.65	634.9	-1,133.7	553.7	504.4	49.27	11.238
8,100.0	8,015.4	8,152.5	8,011.5	20.7	28.7	-60.65	634.9	-1,133.7	553.7	504.4	49.29	11.234
8,170.0	8,085.4	8,222.5	8,081.5	20.7	28.7	-60.65	634.9	-1,133.7	553.7	504.3	49.35	11.220
8,200.0	8,115.4	8,252.5	8,111.5	20.7	28.7	-60.65	634.9	-1,133.7	553.7	504.3	49.37	11.215
8,265.0	8,180.4	8,317.5	8,176.5	20.7	28.7	-60.65	634.9	-1,133.7	553.7	504.3	49.43	11.202
8,300.0	8,215.4	8,352.5	8,211.5	20.8	28.8	-60.65	634.9	-1,133.7	553.7	504.2	49.46	11.196
8,360.0	8,275.4	8,412.5	8,271.5	20.8	28.8	-60.65	634.9	-1,133.7	553.7	504.2	49.51	11.184
8,400.0	8,315.4	8,452.5	8,311.5	20.8	28.8	-60.65	634.9	-1,133.7	553.7	504.1	49.54	11.177
8,447.6	8,363.0	8,500.1	8,359.1	20.8	28.8	-60.65	634.9	-1,133.7	553.7	504.1	49.57	11.171
8,450.0	8,365.4	8,502.5	8,361.5	20.8	28.8	118.84	634.9	-1,133.7	553.7	504.1	49.57	11.171
8,455.0	8,370.4	8,507.5	8,366.5	20.8	28.8	118.85	634.9	-1,133.7	553.7	504.1	49.57	11.170
8,500.0	8,415.4	8,552.5	8,411.5	20.8	28.8	118.96	634.9	-1,133.7	554.8	505.2	49.60	11.187
8,550.0	8,464.9	8,602.0	8,461.0	20.9	28.8	119.27	634.9	-1,133.7	558.1	508.5	49.62	11.248
8,600.0	8,513.6	8,650.7	8,509.7	20.9	28.8	119.75	634.9	-1,133.7	563.7	514.0	49.63	11.358
8,645.0	8,556.6	8,693.6	8,552.7	20.9	28.9	120.27	634.9	-1,133.7	570.7	521.1	49.62	11.501
8,650.0	8,561.3	8,698.3	8,557.4	20.9	28.9	120.34	634.9	-1,133.7	571.6	522.0	49.62	11.520
8,700.0	8,607.4	8,744.4	8,603.5	20.9	28.9	120.97	634.9	-1,133.7	582.0	532.5	49.58	11.740
8,740.0	8,642.9	8,780.0	8,639.0	21.0	28.9	121.46	634.9	-1,133.7	592.4	542.8	49.52	11.963
8,750.0	8,651.6	8,788.7	8,647.7	21.0	28.9	121.58	634.9	-1,133.7	595.2	545.7	49.50	12.025
8,800.0	8,693.6	8,830.7	8,689.7	21.0	28.9	122.07	634.9	-1,133.7	611.3	561.9	49.38	12.379
8,835.0	8,721.6	8,858.7	8,717.7	21.0	28.9	122.31	634.9	-1,133.7	624.3	575.1	49.27	12.671
8,850.0	8,733.2	8,870.3	8,729.3	21.0	28.9	122.37	634.9	-1,133.7	630.4	581.2	49.22	12.808
8,900.0	8,769.9	8,907.0	8,766.0	21.1	28.9	122.37	634.9	-1,133.7	652.6	603.6	49.01	13.316
8,930.0	8,790.4	8,927.5	8,786.5	21.1	28.9	122.19	634.9	-1,133.7	667.4	618.5	48.86	13.659
8,950.0	8,803.5	8,940.6	8,799.6	21.1	28.9	121.99	634.9	-1,133.7	677.9	629.1	48.75	13.904
9,000.0	8,833.8	8,970.8	8,829.9	21.1	29.0	121.11	634.9	-1,133.7	706.2	657.8	48.47	14.572
9,025.0	8,847.6	8,984.6	8,843.7	21.2	29.0	120.45	634.9	-1,133.7	721.5	673.2	48.31	14.936
9,050.0	8,860.4	8,997.5	8,856.5	21.2	29.0	119.63	634.9	-1,133.7	737.5	689.4	48.15	15.318
9,100.0	8,883.3	9,020.4	8,879.4	21.2	29.0	117.39	634.9	-1,133.7	771.6	723.8	47.81	16.138
9,120.0	8,891.4	9,028.5	8,887.5	21.2	29.0	116.26	634.9	-1,133.7	785.9	738.2	47.67	16.486
9,150.0	8,902.3	9,039.4	8,898.4	21.3	29.0	114.26	634.9	-1,133.7	808.1	760.6	47.46	17.027
9,200.0	8,917.1	9,054.2	8,913.2	21.3	29.0	110.03	634.9	-1,133.7	846.7	799.6	47.10	17.977
9,215.0	8,920.7	9,057.8	8,916.8	21.3	29.0	108.53	634.9	-1,133.7	858.7	811.7	47.00	18.272
9,250.0	8,927.7	9,064.8	8,923.8	21.4	29.0	104.56	634.9	-1,133.7	887.2	840.5	46.75	18.979
9,300.0	8,934.0	9,071.1	8,930.1	21.4	29.0	97.72	634.9	-1,133.7	929.1	882.7	46.40	20.026
9,310.0	8,934.8	9,071.9	8,930.9	21.5	29.0	96.19	634.9	-1,133.7	937.7	891.3	46.33	20.240
9,346.7	8,936.0	10,473.8	9,740.1	21.5	29.9	149.03	-203.8	-1,141.1	942.4	906.0	36.39	25.900
9,400.0	8,936.1	10,527.1	9,740.2	21.6	29.9	149.03	-257.1	-1,141.6	942.4	905.7	36.62	25.735
9,405.0	8,936.1	10,532.1	9,740.2	21.6	29.9	149.03	-262.1	-1,141.7	942.4	905.7	36.64	25.718
9,500.0	8,936.2	10,627.1	9,740.2	21.7	30.1	149.02	-357.1	-1,142.5	942.3	905.2	37.11	25.393

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	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	8,936.4	10,722.1	9,740.3	21.9	30.3	149.02	-452.1	-1,143.4	942.2	904.6	37.63	25.039
9,600.0	8,936.4	10,727.1	9,740.3	21.9	30.3	149.02	-457.1	-1,143.4	942.2	904.5	37.66	25.020
9,690.0	8,936.6	10,817.1	9,740.3	22.0	30.4	149.02	-547.1	-1,144.2	942.1	903.9	38.20	24.663
9,700.0	8,936.6	10,827.1	9,740.3	22.1	30.5	149.02	-557.1	-1,144.3	942.1	903.8	38.26	24.622
9,785.0	8,936.7	10,912.1	9,740.4	22.2	30.6	149.01	-642.1	-1,145.0	942.0	903.2	38.82	24.267
9,800.0	8,936.7	10,927.1	9,740.4	22.3	30.7	149.01	-657.1	-1,145.2	942.0	903.1	38.92	24.203
9,880.0	8,936.9	11,007.1	9,740.4	22.4	30.8	149.01	-737.1	-1,145.9	941.9	902.4	39.48	23.855
9,900.0	8,936.9	11,027.1	9,740.4	22.5	30.9	149.01	-757.1	-1,146.1	941.9	902.3	39.63	23.768
9,975.0	8,937.0	11,102.1	9,740.5	22.7	31.1	149.01	-832.1	-1,146.7	941.8	901.6	40.19	23.432
10,000.0	8,937.1	11,127.1	9,740.5	22.7	31.1	149.01	-857.1	-1,146.9	941.8	901.4	40.39	23.319
10,070.0	8,937.2	11,197.1	9,740.5	22.9	31.3	149.00	-927.1	-1,147.6	941.7	900.8	40.95	23.000
10,100.0	8,937.2	11,227.1	9,740.5	23.0	31.4	149.00	-957.1	-1,147.8	941.7	900.5	41.19	22.862
10,165.0	8,937.3	11,292.1	9,740.6	23.2	31.6	149.00	-1,022.1	-1,148.4	941.7	899.9	41.74	22.561
10,200.0	8,937.4	11,327.1	9,740.6	23.3	31.6	149.00	-1,057.1	-1,148.7	941.6	899.6	42.04	22.400
10,260.0	8,937.5	11,387.1	9,740.6	23.5	31.8	149.00	-1,117.1	-1,149.3	941.6	899.0	42.57	22.120
10,300.0	8,937.5	11,427.1	9,740.6	23.6	31.9	149.00	-1,157.1	-1,149.6	941.5	898.6	42.92	21.935
10,355.0	8,937.6	11,482.1	9,740.7	23.8	32.1	148.99	-1,212.1	-1,150.1	941.5	898.0	43.43	21.678
10,400.0	8,937.7	11,527.1	9,740.7	23.9	32.2	148.99	-1,257.1	-1,150.5	941.4	897.6	43.85	21.471
10,450.0	8,937.8	11,577.1	9,740.7	24.1	32.4	148.99	-1,307.1	-1,150.9	941.4	897.1	44.33	21.238
10,500.0	8,937.9	11,627.1	9,740.8	24.2	32.5	148.99	-1,357.1	-1,151.4	941.3	896.5	44.81	21.009
10,545.0	8,937.9	11,672.1	9,740.8	24.4	32.7	148.99	-1,402.0	-1,151.8	941.3	896.0	45.25	20.801
10,600.0	8,938.0	11,727.1	9,740.8	24.6	32.8	148.98	-1,457.0	-1,152.3	941.2	895.4	45.80	20.551
10,640.0	8,938.1	11,767.1	9,740.8	24.7	33.0	148.98	-1,497.0	-1,152.6	941.2	895.0	46.21	20.369
10,700.0	8,938.2	11,827.1	9,740.9	25.0	33.2	148.98	-1,557.0	-1,153.2	941.2	894.3	46.82	20.100
10,735.0	8,938.2	11,862.1	9,740.9	25.1	33.3	148.98	-1,592.0	-1,153.5	941.1	893.9	47.19	19.943
10,800.0	8,938.3	11,927.1	9,740.9	25.4	33.5	148.98	-1,657.0	-1,154.0	941.1	893.2	47.88	19.656
10,830.0	8,938.4	11,957.1	9,740.9	25.5	33.6	148.98	-1,687.0	-1,154.3	941.0	892.8	48.20	19.523
10,900.0	8,938.5	12,027.1	9,741.0	25.8	33.9	148.97	-1,757.0	-1,154.9	941.0	892.0	48.96	19.220
10,925.0	8,938.5	12,052.1	9,741.0	25.9	34.0	148.97	-1,782.0	-1,155.2	940.9	891.7	49.23	19.112
11,000.0	8,938.7	12,127.1	9,741.0	26.2	34.2	148.97	-1,857.0	-1,155.8	940.9	890.8	50.06	18.794
11,020.0	8,938.7	12,147.1	9,741.0	26.3	34.3	148.97	-1,877.0	-1,156.0	940.9	890.6	50.29	18.709
11,100.0	8,938.8	12,227.1	9,741.1	26.6	34.6	148.97	-1,957.0	-1,156.7	940.8	889.6	51.19	18.377
11,115.0	8,938.9	12,242.1	9,741.1	26.7	34.7	148.97	-1,972.0	-1,156.8	940.8	889.4	51.36	18.315
11,200.0	8,939.0	12,327.1	9,741.1	27.1	35.0	148.96	-2,057.0	-1,157.6	940.7	888.3	52.34	17.971
11,210.0	8,939.0	12,337.1	9,741.1	27.2	35.0	148.96	-2,067.0	-1,157.7	940.7	888.2	52.46	17.931
11,300.0	8,939.2	12,427.1	9,741.2	27.6	35.4	148.96	-2,157.0	-1,158.5	940.6	887.1	53.52	17.576
11,305.0	8,939.2	12,432.1	9,741.2	27.6	35.4	148.96	-2,162.0	-1,158.5	940.6	887.0	53.58	17.556
11,400.0	8,939.3	12,527.1	9,741.2	28.1	35.8	148.96	-2,257.0	-1,159.4	940.5	885.8	54.71	17.191
11,495.0	8,939.5	12,622.1	9,741.3	28.5	36.2	148.95	-2,352.0	-1,160.2	940.4	884.6	55.86	16.836
11,500.0	8,939.5	12,627.1	9,741.3	28.6	36.3	148.95	-2,357.0	-1,160.3	940.4	884.5	55.92	16.818
11,590.0	8,939.6	12,717.1	9,741.3	29.0	36.6	148.95	-2,447.0	-1,161.1	940.3	883.3	57.02	16.491
11,600.0	8,939.6	12,727.1	9,741.3	29.1	36.7	148.95	-2,457.0	-1,161.2	940.3	883.2	57.14	16.455
11,685.0	8,939.8	12,812.1	9,741.4	29.5	37.1	148.95	-2,542.0	-1,161.9	940.2	882.0	58.20	16.155
11,700.0	8,939.8	12,827.1	9,741.4	29.6	37.1	148.95	-2,557.0	-1,162.0	940.2	881.8	58.39	16.103
11,780.0	8,939.9	12,907.1	9,741.4	30.0	37.5	148.94	-2,637.0	-1,162.8	940.2	880.8	59.39	15.830
11,800.0	8,940.0	12,927.1	9,741.4	30.1	37.6	148.94	-2,657.0	-1,162.9	940.1	880.5	59.64	15.762
11,875.0	8,940.1	13,002.1	9,741.5	30.5	37.9	148.94	-2,732.0	-1,163.6	940.1	879.5	60.60	15.513
11,900.0	8,940.1	13,027.1	9,741.5	30.7	38.1	148.94	-2,757.0	-1,163.8	940.0	879.1	60.92	15.432
11,970.0	8,940.2	13,097.1	9,741.5	31.1	38.4	148.94	-2,827.0	-1,164.4	940.0	878.2	61.81	15.207
12,000.0	8,940.3	13,127.1	9,741.5	31.2	38.5	148.94	-2,857.0	-1,164.7	939.9	877.7	62.20	15.112
12,065.0	8,940.4	13,192.1	9,741.6	31.6	38.9	148.93	-2,922.0	-1,165.3	939.9	876.8	63.04	14.909

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
12,100.0	8,940.4	13,227.1	9,741.6	31.8	39.0	148.93		-2,957.0	-1,165.6	939.9	876.4	63.50	14.801
12,160.0	8,940.5	13,287.1	9,741.6	32.1	39.3	148.93		-3,017.0	-1,166.1	939.8	875.5	64.28	14.620
12,200.0	8,940.6	13,327.1	9,741.6	32.4	39.5	148.93		-3,057.0	-1,166.5	939.8	875.0	64.81	14.501
12,255.0	8,940.7	13,382.1	9,741.7	32.7	39.8	148.93		-3,112.0	-1,167.0	939.7	874.2	65.53	14.340
12,300.0	8,940.8	13,427.1	9,741.7	33.0	40.0	148.93		-3,157.0	-1,167.4	939.7	873.5	66.13	14.210
12,350.0	8,940.9	13,477.1	9,741.7	33.2	40.3	148.92		-3,207.0	-1,167.8	939.6	872.8	66.79	14.068
12,400.0	8,940.9	13,527.1	9,741.8	33.5	40.5	148.92		-3,257.0	-1,168.3	939.6	872.1	67.45	13.929
12,445.0	8,941.0	13,572.1	9,741.8	33.8	40.8	148.92		-3,302.0	-1,168.7	939.5	871.5	68.06	13.805
12,500.0	8,941.1	13,627.1	9,741.8	34.1	41.1	148.92		-3,357.0	-1,169.1	939.5	870.7	68.79	13.656
12,540.0	8,941.2	13,667.1	9,741.8	34.4	41.3	148.92		-3,397.0	-1,169.5	939.4	870.1	69.33	13.550
12,600.0	8,941.3	13,727.1	9,741.9	34.7	41.6	148.92		-3,457.0	-1,170.0	939.4	869.2	70.14	13.393
12,635.0	8,941.3	13,762.1	9,741.9	35.0	41.8	148.92		-3,492.0	-1,170.3	939.4	868.7	70.62	13.302
12,700.0	8,941.4	13,827.1	9,741.9	35.4	42.1	148.91		-3,557.0	-1,170.9	939.3	867.8	71.50	13.137
12,730.0	8,941.5	13,857.1	9,741.9	35.5	42.3	148.91		-3,587.0	-1,171.2	939.3	867.4	71.91	13.062
12,800.0	8,941.6	13,927.1	9,742.0	36.0	42.7	148.91		-3,657.0	-1,171.8	939.2	866.3	72.86	12.890
12,825.0	8,941.6	13,952.1	9,742.0	36.1	42.8	148.91		-3,682.0	-1,172.0	939.2	866.0	73.21	12.829
12,900.0	8,941.7	14,027.1	9,742.0	36.6	43.2	148.91		-3,757.0	-1,172.7	939.1	864.9	74.24	12.650
12,920.0	8,941.8	14,047.1	9,742.0	36.7	43.3	148.91		-3,777.0	-1,172.9	939.1	864.6	74.51	12.603
13,000.0	8,941.9	14,127.1	9,742.1	37.2	43.8	148.90		-3,856.9	-1,173.6	939.0	863.4	75.62	12.418
13,015.0	8,941.9	14,142.1	9,742.1	37.3	43.9	148.90		-3,871.9	-1,173.7	939.0	863.2	75.83	12.384
13,100.0	8,942.1	14,227.1	9,742.1	37.9	44.3	148.90		-3,956.9	-1,174.5	938.9	861.9	77.00	12.193
13,110.0	8,942.1	14,237.1	9,742.1	37.9	44.4	148.90		-3,966.9	-1,174.6	938.9	861.8	77.14	12.171
13,200.0	8,942.2	14,327.1	9,742.2	38.5	44.9	148.90		-4,056.9	-1,175.4	938.8	860.4	78.40	11.975
13,205.0	8,942.2	14,332.1	9,742.2	38.5	44.9	148.90		-4,061.9	-1,175.4	938.8	860.4	78.47	11.965
13,300.0	8,942.4	14,427.1	9,742.2	39.1	45.5	148.89		-4,156.9	-1,176.2	938.7	858.9	79.80	11.764
13,395.0	8,942.5	14,522.1	9,742.3	39.8	46.0	148.89		-4,251.9	-1,177.1	938.6	857.5	81.13	11.569
13,400.0	8,942.5	14,527.1	9,742.3	39.8	46.1	148.89		-4,256.9	-1,177.1	938.6	857.4	81.20	11.559
13,490.0	8,942.7	14,617.1	9,742.3	40.4	46.6	148.89		-4,346.9	-1,177.9	938.6	856.1	82.47	11.380
13,500.0	8,942.7	14,627.1	9,742.3	40.5	46.6	148.89		-4,356.9	-1,178.0	938.6	855.9	82.61	11.361
13,585.0	8,942.8	14,712.1	9,742.4	41.0	47.1	148.88		-4,441.9	-1,178.8	938.5	854.7	83.82	11.197
13,600.0	8,942.9	14,727.1	9,742.4	41.1	47.2	148.88		-4,456.9	-1,178.9	938.5	854.4	84.03	11.168
13,680.0	8,943.0	14,807.1	9,742.4	41.6	47.7	148.88		-4,536.9	-1,179.6	938.4	853.2	85.17	11.018
13,700.0	8,943.0	14,827.1	9,742.4	41.8	47.8	148.88		-4,556.9	-1,179.8	938.4	852.9	85.45	10.981
13,775.0	8,943.2	14,902.1	9,742.5	42.3	48.3	148.88		-4,631.9	-1,180.5	938.3	851.8	86.52	10.845
13,800.0	8,943.2	14,927.1	9,742.5	42.4	48.4	148.88		-4,656.9	-1,180.7	938.3	851.4	86.88	10.800
13,870.0	8,943.3	14,997.1	9,742.5	42.9	48.9	148.87		-4,726.9	-1,181.3	938.2	850.3	87.88	10.676
13,900.0	8,943.4	15,027.1	9,742.5	43.1	49.0	148.87		-4,756.9	-1,181.6	938.2	849.9	88.31	10.624
13,965.0	8,943.5	15,092.1	9,742.6	43.5	49.4	148.87		-4,821.9	-1,182.2	938.1	848.9	89.24	10.513
14,000.0	8,943.5	15,127.1	9,742.6	43.8	49.6	148.87		-4,856.9	-1,182.5	938.1	848.3	89.74	10.453
14,060.0	8,943.6	15,187.1	9,742.6	44.2	50.0	148.87		-4,916.9	-1,183.0	938.0	847.4	90.60	10.353
14,100.0	8,943.7	15,227.1	9,742.7	44.5	50.3	148.86		-4,956.9	-1,183.3	938.0	846.8	91.18	10.287
14,155.0	8,943.8	15,282.1	9,742.7	44.8	50.6	148.86		-5,011.9	-1,183.8	937.9	846.0	91.97	10.198
14,200.0	8,943.8	15,327.1	9,742.7	45.1	50.9	148.86		-5,056.9	-1,184.2	937.9	845.3	92.62	10.126
14,250.0	8,943.9	15,377.1	9,742.7	45.5	51.2	148.86		-5,106.9	-1,184.7	937.9	844.5	93.34	10.047
14,300.0	8,944.0	15,427.1	9,742.8	45.8	51.5	148.86		-5,156.9	-1,185.1	937.8	843.7	94.07	9.969
14,345.0	8,944.1	15,472.1	9,742.8	46.1	51.8	148.86		-5,201.9	-1,185.5	937.8	843.0	94.72	9.900
14,400.0	8,944.2	15,527.1	9,742.8	46.5	52.1	148.85		-5,256.9	-1,186.0	937.7	842.2	95.52	9.817
14,440.0	8,944.2	15,567.1	9,742.8	46.8	52.4	148.85		-5,296.9	-1,186.4	937.7	841.6	96.10	9.757
14,500.0	8,944.3	15,627.1	9,742.9	47.2	52.8	148.85		-5,356.9	-1,186.9	937.6	840.7	96.97	9.669
14,535.0	8,944.4	15,662.1	9,742.9	47.4	53.0	148.85		-5,391.9	-1,187.2	937.6	840.1	97.48	9.618
14,600.0	8,944.5	15,727.1	9,742.9	47.9	53.4	148.85		-5,456.9	-1,187.8	937.5	839.1	98.43	9.525

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
14,630.0	8,944.5	15,757.1	9,742.9	48.1	53.6	148.85	-5,486.9	-1,188.1	937.5	838.6	98.87	9.483
14,700.0	8,944.6	15,827.1	9,743.0	48.6	54.0	148.84	-5,556.9	-1,188.7	937.4	837.5	99.89	9.385
14,725.0	8,944.7	15,852.1	9,743.0	48.7	54.2	148.84	-5,581.9	-1,188.9	937.4	837.2	100.25	9.350
14,800.0	8,944.8	15,927.1	9,743.0	49.3	54.7	148.84	-5,656.9	-1,189.6	937.3	836.0	101.35	9.249
14,820.0	8,944.8	15,947.1	9,743.0	49.4	54.8	148.84	-5,676.9	-1,189.7	937.3	835.7	101.64	9.222
14,900.0	8,945.0	16,027.1	9,743.1	50.0	55.3	148.84	-5,756.9	-1,190.5	937.3	834.4	102.82	9.116
14,915.0	8,945.0	16,042.1	9,743.1	50.1	55.4	148.84	-5,771.9	-1,190.6	937.2	834.2	103.04	9.096
15,000.0	8,945.1	16,127.1	9,743.1	50.7	56.0	148.83	-5,856.9	-1,191.3	937.2	832.9	104.28	8.987
15,010.0	8,945.1	16,137.1	9,743.1	50.7	56.0	148.83	-5,866.9	-1,191.4	937.1	832.7	104.43	8.974
15,100.0	8,945.3	16,227.1	9,743.2	51.4	56.6	148.83	-5,956.9	-1,192.2	937.1	831.3	105.75	8.861
15,105.0	8,945.3	16,232.1	9,743.2	51.4	56.7	148.83	-5,961.9	-1,192.3	937.1	831.2	105.83	8.855
15,200.0	8,945.5	16,327.1	9,743.2	52.1	57.3	148.83	-6,056.9	-1,193.1	937.0	829.7	107.23	8.738
15,295.0	8,945.6	16,422.1	9,743.3	52.7	57.9	148.82	-6,151.9	-1,194.0	936.9	828.3	108.63	8.625
15,300.0	8,945.6	16,427.1	9,743.3	52.8	57.9	148.82	-6,156.9	-1,194.0	936.9	828.2	108.70	8.619
15,390.0	8,945.8	16,517.1	9,743.3	53.4	58.5	148.82	-6,246.9	-1,194.8	936.8	826.8	110.03	8.514
15,400.0	8,945.8	16,527.1	9,743.3	53.5	58.6	148.82	-6,256.9	-1,194.9	936.8	826.6	110.18	8.502
15,485.0	8,945.9	16,612.1	9,743.4	54.1	59.2	148.82	-6,341.8	-1,195.6	936.7	825.3	111.44	8.406
15,500.0	8,945.9	16,627.1	9,743.4	54.2	59.3	148.82	-6,356.8	-1,195.8	936.7	825.0	111.66	8.389
15,580.0	8,946.1	16,707.1	9,743.4	54.7	59.8	148.81	-6,436.8	-1,196.5	936.6	823.8	112.85	8.300
15,600.0	8,946.1	16,727.1	9,743.4	54.9	59.9	148.81	-6,456.8	-1,196.7	936.6	823.5	113.14	8.278
15,675.0	8,946.2	16,802.1	9,743.5	55.4	60.4	148.81	-6,531.8	-1,197.3	936.5	822.3	114.26	8.197
15,700.0	8,946.3	16,827.1	9,743.5	55.6	60.6	148.81	-6,556.8	-1,197.6	936.5	821.9	114.63	8.170
15,770.0	8,946.4	16,897.1	9,743.5	56.1	61.1	148.81	-6,626.8	-1,198.2	936.4	820.8	115.67	8.096
15,800.0	8,946.4	16,927.1	9,743.6	56.3	61.3	148.81	-6,656.8	-1,198.4	936.4	820.3	116.11	8.065
15,865.0	8,946.5	16,992.1	9,743.6	56.8	61.7	148.80	-6,721.8	-1,199.0	936.4	819.3	117.08	7.997
15,900.0	8,946.6	17,027.1	9,743.6	57.0	61.9	148.80	-6,756.8	-1,199.3	936.3	818.7	117.60	7.962
15,960.0	8,946.7	17,087.1	9,743.6	57.4	62.3	148.80	-6,816.8	-1,199.9	936.3	817.8	118.50	7.901
16,000.0	8,946.7	17,127.1	9,743.7	57.7	62.6	148.80	-6,856.8	-1,200.2	936.2	817.1	119.09	7.861
16,055.0	8,946.8	17,182.1	9,743.7	58.1	63.0	148.80	-6,911.8	-1,200.7	936.2	816.3	119.91	7.807
16,100.0	8,946.9	17,227.1	9,743.7	58.5	63.3	148.80	-6,956.8	-1,201.1	936.1	815.6	120.58	7.763
16,150.0	8,947.0	17,277.1	9,743.7	58.8	63.6	148.79	-7,006.8	-1,201.6	936.1	814.8	121.33	7.715
16,200.0	8,947.1	17,327.1	9,743.8	59.2	64.0	148.79	-7,056.8	-1,202.0	936.0	814.0	122.08	7.668
16,245.0	8,947.1	17,372.1	9,743.8	59.5	64.3	148.79	-7,101.8	-1,202.4	936.0	813.3	122.75	7.625
16,300.0	8,947.2	17,427.1	9,743.8	59.9	64.6	148.79	-7,156.8	-1,202.9	936.0	812.4	123.57	7.574
16,340.0	8,947.3	17,467.1	9,743.8	60.2	64.9	148.79	-7,196.8	-1,203.2	935.9	811.7	124.17	7.537
16,400.0	8,947.4	17,527.1	9,743.9	60.6	65.3	148.79	-7,256.8	-1,203.8	935.9	810.8	125.07	7.483
16,435.0	8,947.5	17,562.1	9,743.9	60.9	65.6	148.78	-7,291.8	-1,204.1	935.8	810.2	125.59	7.451
16,500.0	8,947.6	17,627.1	9,743.9	61.3	66.0	148.78	-7,356.8	-1,204.7	935.8	809.2	126.57	7.393
16,530.0	8,947.6	17,657.1	9,743.9	61.5	66.2	148.78	-7,386.8	-1,204.9	935.7	808.7	127.02	7.367
16,600.0	8,947.7	17,727.1	9,744.0	62.1	66.7	148.78	-7,456.8	-1,205.5	935.7	807.6	128.07	7.306
16,625.0	8,947.8	17,752.1	9,744.0	62.2	66.9	148.78	-7,481.8	-1,205.8	935.6	807.2	128.44	7.285
16,700.0	8,947.9	17,827.1	9,744.0	62.8	67.4	148.78	-7,556.8	-1,206.4	935.6	806.0	129.57	7.221
16,720.0	8,947.9	17,847.1	9,744.0	62.9	67.5	148.77	-7,576.8	-1,206.6	935.6	805.7	129.87	7.204
16,800.0	8,948.0	17,927.1	9,744.1	63.5	68.1	148.77	-7,656.8	-1,207.3	935.5	804.4	131.07	7.137
16,815.0	8,948.1	17,942.1	9,744.1	63.6	68.2	148.77	-7,671.8	-1,207.5	935.5	804.2	131.30	7.125
16,900.0	8,948.2	18,027.1	9,744.1	64.2	68.8	148.77	-7,756.8	-1,208.2	935.4	802.8	132.57	7.056
16,910.0	8,948.2	18,037.1	9,744.1	64.3	68.8	148.77	-7,766.8	-1,208.3	935.4	802.7	132.73	7.048
17,000.0	8,948.4	18,127.1	9,744.2	64.9	69.5	148.76	-7,856.8	-1,209.1	935.3	801.2	134.08	6.976
17,005.0	8,948.4	18,132.1	9,744.2	65.0	69.5	148.76	-7,861.8	-1,209.1	935.3	801.1	134.16	6.972
17,100.0	8,948.5	18,227.1	9,744.2	65.7	70.2	148.76	-7,956.8	-1,210.0	935.2	799.6	135.59	6.898
17,195.0	8,948.7	18,322.1	9,744.3	66.4	70.8	148.76	-8,051.8	-1,210.8	935.1	798.1	137.02	6.825

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-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)		
17,200.0	8,948.7	18,327.1	9,744.3	66.4	70.9	148.76	-8,056.8	-1,210.9	935.1	798.0	137.09	6.821
17,290.0	8,948.8	18,417.1	9,744.3	67.1	71.5	148.75	-8,146.8	-1,211.7	935.0	796.6	138.45	6.754
17,300.0	8,948.8	18,427.1	9,744.3	67.1	71.6	148.75	-8,156.8	-1,211.8	935.0	796.4	138.60	6.746
17,385.0	8,949.0	18,512.1	9,744.4	67.8	72.1	148.75	-8,241.8	-1,212.5	934.9	795.1	139.89	6.684
17,400.0	8,949.0	18,527.1	9,744.4	67.9	72.3	148.75	-8,256.8	-1,212.6	934.9	794.8	140.11	6.673
17,480.0	8,949.1	18,607.1	9,744.4	68.4	72.8	148.75	-8,336.8	-1,213.4	934.9	793.5	141.32	6.615
17,500.0	8,949.2	18,627.1	9,744.5	68.6	73.0	148.75	-8,356.8	-1,213.5	934.8	793.2	141.62	6.601
17,575.0	8,949.3	18,702.1	9,744.5	69.1	73.5	148.74	-8,431.8	-1,214.2	934.8	792.0	142.76	6.548
17,600.0	8,949.3	18,727.1	9,744.5	69.3	73.7	148.74	-8,456.8	-1,214.4	934.7	791.6	143.13	6.531
17,670.0	8,949.4	18,797.1	9,744.5	69.8	74.1	148.74	-8,526.8	-1,215.0	934.7	790.5	144.19	6.482
17,700.0	8,949.5	18,827.1	9,744.6	70.1	74.4	148.74	-8,556.8	-1,215.3	934.7	790.0	144.65	6.462
17,765.0	8,949.6	18,892.1	9,744.6	70.5	74.8	148.74	-8,621.8	-1,215.9	934.6	789.0	145.63	6.418
17,800.0	8,949.7	18,927.1	9,744.6	70.8	75.1	148.74	-8,656.8	-1,216.2	934.6	788.4	146.16	6.394
17,860.0	8,949.8	18,987.1	9,744.6	71.2	75.5	148.73	-8,716.8	-1,216.7	934.5	787.4	147.07	6.354
17,900.0	8,949.8	19,027.1	9,744.7	71.5	75.8	148.73	-8,756.8	-1,217.1	934.5	786.8	147.68	6.328
17,955.0	8,949.9	19,082.1	9,744.7	71.9	76.2	148.73	-8,811.8	-1,217.6	934.4	785.9	148.51	6.292
18,000.0	8,950.0	19,127.1	9,744.7	72.3	76.5	148.73	-8,856.7	-1,218.0	934.4	785.2	149.19	6.263
18,050.0	8,950.1	19,177.1	9,744.7	72.6	76.8	148.73	-8,906.7	-1,218.4	934.3	784.4	149.95	6.231
18,100.0	8,950.1	19,227.1	9,744.8	73.0	77.2	148.73	-8,956.7	-1,218.9	934.3	783.6	150.71	6.199
18,145.0	8,950.2	19,272.1	9,744.8	73.3	77.5	148.73	-9,001.7	-1,219.3	934.2	782.8	151.39	6.171
18,200.0	8,950.3	19,327.1	9,744.8	73.7	77.9	148.72	-9,056.7	-1,219.8	934.2	782.0	152.23	6.137
18,240.0	8,950.4	19,367.1	9,744.8	74.0	78.2	148.72	-9,096.7	-1,220.1	934.2	781.3	152.83	6.112
18,300.0	8,950.5	19,427.1	9,744.9	74.5	78.6	148.72	-9,156.7	-1,220.6	934.1	780.4	153.74	6.076
18,335.0	8,950.5	19,462.1	9,744.9	74.7	78.8	148.72	-9,191.7	-1,220.9	934.1	779.8	154.28	6.055
18,400.0	8,950.6	19,527.1	9,744.9	75.2	79.3	148.72	-9,256.7	-1,221.5	934.0	778.7	155.26	6.016
18,430.0	8,950.7	19,557.1	9,744.9	75.4	79.5	148.72	-9,286.7	-1,221.8	934.0	778.3	155.72	5.998
18,500.0	8,950.8	19,627.1	9,745.0	75.9	80.0	148.71	-9,356.7	-1,222.4	933.9	777.1	156.78	5.957
18,525.0	8,950.8	19,652.1	9,745.0	76.1	80.2	148.71	-9,381.7	-1,222.6	933.9	776.7	157.16	5.942
18,600.0	8,950.9	19,727.1	9,745.0	76.7	80.7	148.71	-9,456.7	-1,223.3	933.8	775.5	158.30	5.899
18,620.0	8,951.0	19,747.1	9,745.0	76.8	80.9	148.71	-9,476.7	-1,223.5	933.8	775.2	158.61	5.887
18,700.0	8,951.1	19,827.1	9,745.1	77.4	81.4	148.71	-9,556.7	-1,224.2	933.7	773.9	159.82	5.842
18,715.0	8,951.1	19,842.1	9,745.1	77.5	81.6	148.71	-9,571.7	-1,224.3	933.7	773.7	160.05	5.834
18,800.0	8,951.3	19,927.1	9,745.1	78.1	82.2	148.70	-9,656.7	-1,225.1	933.6	772.3	161.35	5.786
18,810.0	8,951.3	19,937.1	9,745.1	78.2	82.2	148.70	-9,666.7	-1,225.2	933.6	772.1	161.50	5.781
18,900.0	8,951.4	20,027.1	9,745.2	78.9	82.9	148.70	-9,756.7	-1,226.0	933.5	770.7	162.87	5.732
18,905.0	8,951.4	20,032.1	9,745.2	78.9	82.9	148.70	-9,761.7	-1,226.0	933.5	770.6	162.95	5.729
19,000.0	8,951.6	20,127.1	9,745.2	79.6	83.6	148.70	-9,856.7	-1,226.9	933.4	769.1	164.39	5.678
19,095.0	8,951.7	20,222.1	9,745.3	80.3	84.3	148.69	-9,951.7	-1,227.7	933.4	767.5	165.84	5.628
19,100.0	8,951.8	20,227.1	9,745.3	80.4	84.3	148.69	-9,956.7	-1,227.7	933.4	767.4	165.92	5.625
19,190.0	8,951.9	20,317.1	9,745.3	81.0	85.0	148.69	-10,046.7	-1,228.5	933.3	766.0	167.29	5.579
19,200.0	8,951.9	20,327.1	9,745.4	81.1	85.0	148.69	-10,056.7	-1,228.6	933.3	765.8	167.44	5.574
19,285.0	8,952.1	20,412.1	9,745.4	81.7	85.6	148.69	-10,141.7	-1,229.4	933.2	764.4	168.74	5.530
19,300.0	8,952.1	20,427.1	9,745.4	81.8	85.8	148.69	-10,156.7	-1,229.5	933.2	764.2	168.97	5.523
19,380.0	8,952.2	20,507.1	9,745.4	82.4	86.3	148.68	-10,236.7	-1,230.2	933.1	762.9	170.19	5.483
19,400.0	8,952.2	20,527.1	9,745.5	82.6	86.5	148.68	-10,256.7	-1,230.4	933.1	762.6	170.49	5.473
19,475.0	8,952.4	20,602.1	9,745.5	83.1	87.0	148.68	-10,331.7	-1,231.1	933.0	761.4	171.64	5.436
19,500.0	8,952.4	20,627.1	9,745.5	83.3	87.2	148.68	-10,356.7	-1,231.3	933.0	761.0	172.02	5.424
19,570.0	8,952.5	20,697.1	9,745.5	83.8	87.7	148.68	-10,426.7	-1,231.9	932.9	759.8	173.09	5.390
19,600.0	8,952.6	20,727.1	9,745.6	84.1	87.9	148.67	-10,456.7	-1,232.2	932.9	759.3	173.55	5.375
19,665.0	8,952.7	20,792.1	9,745.6	84.6	88.4	148.67	-10,521.7	-1,232.8	932.8	758.3	174.54	5.344
19,700.0	8,952.7	20,827.1	9,745.6	84.8	88.6	148.67	-10,556.7	-1,233.1	932.8	757.7	175.08	5.328

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
19,760.0	8,952.8	20,887.1	9,745.6	85.3	89.1	148.67		-10,616.7	-1,233.6	932.7	756.7	175.99	5.300
19,800.0	8,952.9	20,927.1	9,745.7	85.6	89.4	148.67		-10,656.7	-1,234.0	932.7	756.1	176.60	5.281
19,855.0	8,953.0	20,982.1	9,745.7	86.0	89.8	148.67		-10,711.7	-1,234.4	932.7	755.2	177.44	5.256
19,900.0	8,953.0	21,027.1	9,745.7	86.3	90.1	148.66		-10,756.7	-1,234.8	932.6	754.5	178.13	5.235
19,950.0	8,953.1	21,077.1	9,745.7	86.7	90.4	148.66		-10,806.7	-1,235.3	932.6	753.7	178.90	5.213
20,000.0	8,953.2	21,127.1	9,745.8	87.0	90.8	148.66		-10,856.7	-1,235.7	932.5	752.9	179.66	5.190
20,045.0	8,953.3	21,172.1	9,745.8	87.4	91.1	148.66		-10,901.7	-1,236.1	932.5	752.1	180.35	5.170
20,100.0	8,953.4	21,227.1	9,745.8	87.8	91.5	148.66		-10,956.7	-1,236.6	932.4	751.2	181.19	5.146
20,140.0	8,953.4	21,267.1	9,745.8	88.1	91.8	148.66		-10,996.7	-1,237.0	932.4	750.6	181.80	5.129
20,200.0	8,953.5	21,327.1	9,745.9	88.5	92.3	148.65		-11,056.7	-1,237.5	932.3	749.6	182.72	5.102
20,235.0	8,953.6	21,362.1	9,745.9	88.8	92.5	148.65		-11,091.7	-1,237.8	932.3	749.0	183.26	5.087
20,300.0	8,953.7	21,427.1	9,745.9	89.3	93.0	148.65		-11,156.7	-1,238.4	932.2	748.0	184.25	5.060
20,330.0	8,953.7	21,457.1	9,746.0	89.5	93.2	148.65		-11,186.7	-1,238.7	932.2	747.5	184.71	5.047
20,400.0	8,953.9	21,527.1	9,746.0	90.0	93.7	148.65		-11,256.7	-1,239.3	932.1	746.4	185.78	5.017
20,425.0	8,953.9	21,552.1	9,746.0	90.2	93.9	148.65		-11,281.7	-1,239.5	932.1	746.0	186.17	5.007
20,500.0	8,954.0	21,627.1	9,746.0	90.8	94.4	148.64		-11,356.6	-1,240.2	932.1	744.7	187.32	4.976
20,520.0	8,954.1	21,647.1	9,746.1	90.9	94.6	148.64		-11,376.6	-1,240.3	932.0	744.4	187.62	4.968
20,600.0	8,954.2	21,727.1	9,746.1	91.5	95.2	148.64		-11,456.6	-1,241.1	932.0	743.1	188.85	4.935
20,615.0	8,954.2	21,742.1	9,746.1	91.6	95.3	148.64		-11,471.6	-1,241.2	931.9	742.9	189.08	4.929
20,700.0	8,954.3	21,827.1	9,746.1	92.3	95.9	148.64		-11,556.6	-1,241.9	931.9	741.5	190.38	4.895
20,710.0	8,954.4	21,837.1	9,746.2	92.3	96.0	148.64		-11,566.6	-1,242.0	931.9	741.3	190.53	4.891
20,800.0	8,954.5	21,927.1	9,746.2	93.0	96.6	148.63		-11,656.6	-1,242.8	931.8	739.9	191.91	4.855
20,805.0	8,954.5	21,932.1	9,746.2	93.0	96.7	148.63		-11,661.6	-1,242.9	931.8	739.8	191.99	4.853
20,900.0	8,954.7	22,027.1	9,746.3	93.7	97.4	148.63		-11,756.6	-1,243.7	931.7	738.2	193.45	4.816
20,995.0	8,954.8	22,122.1	9,746.3	94.5	98.0	148.63		-11,851.6	-1,244.6	931.6	736.7	194.90	4.780
21,000.0	8,954.8	22,127.1	9,746.3	94.5	98.1	148.63		-11,856.6	-1,244.6	931.6	736.6	194.98	4.778
21,090.0	8,955.0	22,217.1	9,746.4	95.2	98.7	148.62		-11,946.6	-1,245.4	931.5	735.1	196.36	4.744
21,100.0	8,955.0	22,227.1	9,746.4	95.2	98.8	148.62		-11,956.6	-1,245.5	931.5	735.0	196.52	4.740
21,185.0	8,955.1	22,312.1	9,746.4	95.9	99.4	148.62		-12,041.6	-1,246.3	931.4	733.6	197.82	4.708
21,200.0	8,955.1	22,327.1	9,746.4	96.0	99.5	148.62		-12,056.6	-1,246.4	931.4	733.4	198.05	4.703
21,280.0	8,955.3	22,407.1	9,746.5	96.6	100.1	148.62		-12,136.6	-1,247.1	931.3	732.1	199.28	4.674
21,300.0	8,955.3	22,427.1	9,746.5	96.7	100.3	148.62		-12,156.6	-1,247.3	931.3	731.7	199.59	4.666
21,375.0	8,955.4	22,502.1	9,746.5	97.3	100.8	148.61		-12,231.6	-1,247.9	931.2	730.5	200.74	4.639
21,400.0	8,955.5	22,527.1	9,746.5	97.5	101.0	148.61		-12,256.6	-1,248.2	931.2	730.1	201.12	4.630
21,470.0	8,955.6	22,597.1	9,746.6	98.0	101.5	148.61		-12,326.6	-1,248.8	931.2	729.0	202.20	4.605
21,500.0	8,955.6	22,627.1	9,746.6	98.2	101.7	148.61		-12,356.6	-1,249.1	931.1	728.5	202.66	4.595
21,565.0	8,955.7	22,692.1	9,746.6	98.7	102.2	148.61		-12,421.6	-1,249.6	931.1	727.4	203.66	4.572
21,600.0	8,955.8	22,727.1	9,746.6	99.0	102.5	148.60		-12,456.6	-1,249.9	931.0	726.8	204.19	4.560
21,660.0	8,955.9	22,787.1	9,746.7	99.4	102.9	148.60		-12,516.6	-1,250.5	931.0	725.9	205.12	4.539
21,700.0	8,956.0	22,827.1	9,746.7	99.7	103.2	148.60		-12,556.6	-1,250.8	930.9	725.2	205.73	4.525
21,755.0	8,956.0	22,882.1	9,746.7	100.1	103.6	148.60		-12,611.6	-1,251.3	930.9	724.3	206.57	4.506
21,800.0	8,956.1	22,927.1	9,746.7	100.5	103.9	148.60		-12,656.6	-1,251.7	930.8	723.6	207.27	4.491
21,850.0	8,956.2	22,977.1	9,746.8	100.9	104.3	148.60		-12,706.6	-1,252.2	930.8	722.8	208.04	4.474
21,900.0	8,956.3	23,027.1	9,746.8	101.2	104.7	148.59		-12,756.6	-1,252.6	930.8	722.0	208.80	4.458
21,945.0	8,956.4	23,072.1	9,746.8	101.6	105.0	148.59		-12,801.6	-1,253.0	930.7	721.2	209.50	4.443
22,000.0	8,956.4	23,127.1	9,746.8	102.0	105.4	148.59		-12,856.6	-1,253.5	930.7	720.3	210.34	4.425
22,040.0	8,956.5	23,167.1	9,746.9	102.3	105.7	148.59		-12,896.6	-1,253.8	930.6	719.7	210.96	4.411
22,100.0	8,956.6	23,227.1	9,746.9	102.7	106.2	148.59		-12,956.6	-1,254.4	930.6	718.7	211.88	4.392
22,135.0	8,956.7	23,262.1	9,746.9	103.0	106.4	148.59		-12,991.6	-1,254.7	930.5	718.1	212.42	4.381
22,200.0	8,956.8	23,327.1	9,746.9	103.5	106.9	148.58		-13,056.6	-1,255.3	930.5	717.1	213.42	4.360
22,230.0	8,956.8	23,357.1	9,747.0	103.7	107.1	148.58		-13,086.6	-1,255.5	930.5	716.6	213.88	4.350

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9308-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
22,300.0	8,956.9	23,427.1	9,747.0	104.2	107.6	148.58	-13,156.6	-1,256.2	930.4	715.4	214.96	4.328		
22,325.0	8,957.0	23,452.1	9,747.0	104.4	107.8	148.58	-13,181.6	-1,256.4	930.4	715.0	215.34	4.320		
22,400.0	8,957.1	23,527.1	9,747.0	105.0	108.4	148.58	-13,256.6	-1,257.0	930.3	713.8	216.49	4.297		
22,420.0	8,957.1	23,547.1	9,747.1	105.1	108.5	148.58	-13,276.6	-1,257.2	930.3	713.5	216.80	4.291		
22,500.0	8,957.2	23,627.1	9,747.1	105.7	109.1	148.57	-13,356.6	-1,257.9	930.2	712.2	218.03	4.266		
22,515.0	8,957.3	23,642.1	9,747.1	105.8	109.2	148.57	-13,371.6	-1,258.1	930.2	711.9	218.26	4.262		
22,600.0	8,957.4	23,727.1	9,747.2	106.5	109.8	148.57	-13,456.6	-1,258.8	930.1	710.5	219.57	4.236		
22,610.0	8,957.4	23,737.1	9,747.2	106.6	109.9	148.57	-13,466.6	-1,258.9	930.1	710.4	219.73	4.233		
22,700.0	8,957.6	23,827.1	9,747.2	107.2	110.6	148.57	-13,556.6	-1,259.7	930.0	708.9	221.11	4.206		
22,705.0	8,957.6	23,832.1	9,747.2	107.3	110.6	148.57	-13,561.6	-1,259.7	930.0	708.8	221.19	4.205		
22,800.0	8,957.7	23,927.1	9,747.3	108.0	111.3	148.56	-13,656.6	-1,260.6	929.9	707.3	222.65	4.177		
22,895.0	8,957.9	24,022.1	9,747.3	108.7	112.0	148.56	-13,751.6	-1,261.4	929.8	705.7	224.12	4.149		
22,900.0	8,957.9	24,027.1	9,747.3	108.7	112.1	148.56	-13,756.6	-1,261.5	929.8	705.6	224.19	4.147		
22,990.0	8,958.0	24,117.1	9,747.4	109.4	112.7	148.56	-13,846.5	-1,262.3	929.7	704.2	225.58	4.122		
23,000.0	8,958.1	24,127.1	9,747.4	109.5	112.8	148.56	-13,856.5	-1,262.4	929.7	704.0	225.73	4.119		
23,085.0	8,958.2	24,212.1	9,747.4	110.1	113.4	148.55	-13,941.5	-1,263.1	929.7	702.6	227.04	4.095		
23,100.0	8,958.2	24,227.1	9,747.4	110.2	113.5	148.55	-13,956.5	-1,263.3	929.6	702.4	227.27	4.090		
23,180.0	8,958.3	24,307.1	9,747.5	110.8	114.1	148.55	-14,036.5	-1,264.0	929.6	701.1	228.51	4.068		
23,200.0	8,958.4	24,327.1	9,747.5	111.0	114.3	148.55	-14,056.5	-1,264.1	929.6	700.7	228.81	4.062		
23,275.0	8,958.5	24,402.1	9,747.5	111.5	114.8	148.55	-14,131.5	-1,264.8	929.5	699.5	229.97	4.042		
23,300.0	8,958.5	24,427.1	9,747.5	111.7	115.0	148.55	-14,156.5	-1,265.0	929.5	699.1	230.36	4.035		
23,370.0	8,958.7	24,497.1	9,747.6	112.3	115.5	148.54	-14,226.5	-1,265.7	929.4	698.0	231.43	4.016		
23,400.0	8,958.7	24,527.1	9,747.6	112.5	115.7	148.54	-14,256.5	-1,265.9	929.4	697.5	231.90	4.008		
23,465.0	8,958.8	24,592.1	9,747.6	113.0	116.2	148.54	-14,321.5	-1,266.5	929.3	696.4	232.90	3.990		
23,500.0	8,958.9	24,627.1	9,747.6	113.2	116.5	148.54	-14,356.5	-1,266.8	929.3	695.8	233.44	3.981		
23,560.0	8,959.0	24,687.1	9,747.7	113.7	116.9	148.54	-14,416.5	-1,267.3	929.2	694.9	234.36	3.965		
23,600.0	8,959.0	24,727.1	9,747.7	114.0	117.2	148.53	-14,456.5	-1,267.7	929.2	694.2	234.98	3.954		
23,655.0	8,959.1	24,782.1	9,747.7	114.4	117.6	148.53	-14,511.5	-1,268.2	929.1	693.3	235.83	3.940		
23,700.0	8,959.2	24,827.1	9,747.7	114.7	118.0	148.53	-14,556.5	-1,268.6	929.1	692.6	236.52	3.928		
23,750.0	8,959.3	24,877.1	9,747.8	115.1	118.3	148.53	-14,606.5	-1,269.0	929.0	691.7	237.29	3.915		
23,800.0	8,959.3	24,927.1	9,747.8	115.5	118.7	148.53	-14,656.5	-1,269.5	929.0	690.9	238.06	3.902		
23,845.0	8,959.4	24,972.1	9,747.8	115.8	119.0	148.53	-14,701.5	-1,269.9	929.0	690.2	238.76	3.891		
23,900.0	8,959.5	25,027.1	9,747.8	116.3	119.5	148.52	-14,756.5	-1,270.4	928.9	689.3	239.61	3.877		
23,940.0	8,959.6	25,067.1	9,747.9	116.6	119.8	148.52	-14,796.5	-1,270.7	928.9	688.6	240.22	3.867		
24,000.0	8,959.7	25,127.1	9,747.9	117.0	120.2	148.52	-14,856.5	-1,271.2	928.8	687.7	241.15	3.852		
24,035.0	8,959.7	25,162.1	9,747.9	117.3	120.5	148.52	-14,891.5	-1,271.6	928.8	687.1	241.69	3.843		
24,072.6	8,959.8	25,199.7	9,747.9	117.5	120.7	148.52	-14,929.1	-1,271.9	928.7	686.5	242.27	3.834		
24,100.0	8,959.8	25,227.1	9,747.9	117.8	120.9	148.52	-14,956.5	-1,272.1	928.7	686.0	242.69	3.827		
24,130.0	8,959.9	25,257.1	9,748.0	118.0	121.2	148.52	-14,986.5	-1,272.4	928.7	685.5	243.15	3.819		
24,202.6	8,960.0	25,329.7	9,748.0	118.5	121.7	148.51	-15,059.1	-1,273.0	928.6	684.4	244.27	3.802		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 431-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-34.48	1,023.0	-702.5	1,241.5				
95.0	95.0	55.8	55.8	3.0	3.1	-34.47	1,023.1	-702.4	1,241.1	1,235.0	6.03	205.873	
100.0	100.0	60.5	60.5	3.0	3.2	-34.47	1,023.2	-702.4	1,241.1	1,235.0	6.03	205.712	
190.0	190.0	145.0	145.0	3.1	3.8	-34.43	1,024.0	-702.0	1,241.6	1,235.4	6.20	200.282	
200.0	200.0	154.4	154.4	3.1	3.9	-34.43	1,024.1	-702.0	1,241.6	1,235.4	6.23	199.437	
285.0	285.0	234.3	234.2	3.3	4.9	-34.36	1,025.6	-701.3	1,242.5	1,236.1	6.43	193.302	
300.0	300.0	248.3	248.3	3.3	5.1	-34.35	1,025.9	-701.1	1,242.7	1,236.2	6.47	192.083	
380.0	380.0	323.4	323.4	3.4	6.1	-34.26	1,027.9	-700.2	1,243.9	1,237.2	6.69	185.817	
400.0	400.0	342.2	342.1	3.4	6.4	-34.24	1,028.5	-699.9	1,244.2	1,237.5	6.76	184.166	
475.0	475.0	412.5	412.4	3.5	7.4	-34.13	1,030.9	-698.7	1,245.7	1,238.7	6.99	178.175	
500.0	500.0	438.4	438.3	3.5	7.8	-34.08	1,032.0	-698.3	1,246.3	1,239.2	7.07	176.211	
570.0	570.0	536.6	536.4	3.6	8.2	-33.98	1,034.0	-697.0	1,246.9	1,239.7	7.28	171.332	
571.9	571.9	539.2	539.0	3.6	8.3	-33.98	1,034.0	-697.0	1,246.9	1,239.7	7.28	171.193	
600.0	600.0	563.3	563.1	3.6	8.3	-33.97	1,034.2	-696.8	1,247.0	1,239.6	7.42	168.072	
665.0	665.0	629.8	629.6	3.7	8.5	-33.94	1,034.5	-696.3	1,247.0	1,239.3	7.69	162.095	
700.0	700.0	665.6	665.4	3.8	8.7	-33.93	1,034.7	-696.1	1,247.0	1,239.2	7.84	159.033	
760.0	760.0	726.1	726.0	3.8	8.9	-33.92	1,034.8	-695.8	1,246.9	1,238.9	8.08	154.280	
800.0	800.0	764.8	764.6	3.9	9.0	-33.91	1,034.8	-695.6	1,246.9	1,238.7	8.23	151.594	
805.8	805.8	770.4	770.2	3.9	9.0	-33.91	1,034.8	-695.6	1,246.9	1,238.7	8.25	151.216	
855.0	855.0	817.9	817.7	4.0	9.1	-33.90	1,035.0	-695.5	1,246.9	1,238.5	8.42	148.101	
900.0	900.0	861.4	861.2	4.0	9.2	-33.89	1,035.1	-695.4	1,247.0	1,238.4	8.58	145.354	
950.0	950.0	910.1	909.9	4.1	9.3	-33.89	1,035.3	-695.4	1,247.2	1,238.4	8.75	142.554	
1,000.0	1,000.0	960.0	959.8	4.1	9.5	-33.88	1,035.5	-695.4	1,247.4	1,238.5	8.91	140.052	
1,045.0	1,045.0	1,004.9	1,004.7	4.2	9.6	-33.88	1,035.7	-695.4	1,247.5	1,238.5	9.05	137.822	
1,100.0	1,100.0	1,059.7	1,059.5	4.2	9.7	-33.87	1,036.0	-695.4	1,247.7	1,238.5	9.24	135.093	
1,140.0	1,140.0	1,099.4	1,099.2	4.3	9.9	-33.87	1,036.2	-695.4	1,247.9	1,238.5	9.37	133.169	
1,200.0	1,200.0	1,158.5	1,158.3	4.4	10.1	-33.85	1,036.6	-695.3	1,248.2	1,238.6	9.57	130.407	
1,235.0	1,235.0	1,192.9	1,192.7	4.4	10.2	-33.83	1,036.9	-695.1	1,248.4	1,238.7	9.69	128.852	
1,300.0	1,300.0	1,256.8	1,256.6	4.5	10.4	-33.80	1,037.7	-694.6	1,248.7	1,238.8	9.91	126.040	
1,330.0	1,330.0	1,289.1	1,288.9	4.5	10.5	-33.77	1,038.2	-694.2	1,248.9	1,238.9	10.05	124.255	
1,400.0	1,400.0	1,372.1	1,371.8	4.6	10.7	-33.69	1,039.1	-692.7	1,248.9	1,238.4	10.50	118.966	
1,425.0	1,425.0	1,401.7	1,401.5	4.6	10.8	-33.65	1,039.4	-691.9	1,248.7	1,238.0	10.65	117.215	
1,500.0	1,500.0	1,483.1	1,482.8	4.7	11.0	-33.54	1,039.8	-689.2	1,247.6	1,236.5	11.08	112.555	
1,520.0	1,520.0	1,500.2	1,499.9	4.7	11.0	27.31	1,039.8	-688.8	1,247.3	1,236.1	11.19	111.465	
1,600.0	1,600.0	1,570.9	1,570.6	4.9	11.1	27.38	1,039.6	-688.0	1,245.1	1,233.5	11.68	106.626	
1,615.0	1,615.0	1,587.0	1,586.7	4.9	11.1	27.40	1,039.5	-688.0	1,244.6	1,232.7	11.82	105.335	
1,700.0	1,699.8	1,677.8	1,677.5	5.1	11.3	27.57	1,039.1	-687.3	1,239.7	1,227.1	12.60	98.406	
1,710.0	1,709.8	1,688.5	1,688.2	5.1	11.3	27.60	1,039.0	-687.2	1,239.0	1,226.3	12.69	97.636	
1,800.0	1,799.5	1,783.1	1,782.7	5.3	11.4	27.90	1,038.5	-685.7	1,230.7	1,217.2	13.48	91.286	
1,805.0	1,804.4	1,788.2	1,787.9	5.3	11.5	27.92	1,038.5	-685.5	1,230.1	1,216.6	13.52	90.974	
1,900.0	1,898.7	1,885.0	1,884.6	5.6	11.6	28.37	1,038.0	-683.4	1,218.2	1,204.0	14.28	85.308	
1,995.0	1,992.5	1,979.4	1,979.0	5.9	11.8	28.95	1,037.6	-680.7	1,203.5	1,188.6	14.95	80.516	
2,000.0	1,997.5	1,984.2	1,983.8	5.9	11.8	28.98	1,037.6	-680.6	1,202.7	1,187.7	14.98	80.303	
2,090.0	2,085.8	2,070.7	2,070.3	6.2	12.0	29.64	1,037.4	-677.9	1,186.2	1,170.7	15.49	76.560	
2,100.0	2,095.6	2,080.3	2,079.9	6.3	12.0	29.72	1,037.4	-677.7	1,184.2	1,168.7	15.55	76.161	
2,185.0	2,178.5	2,162.2	2,161.7	6.6	12.2	30.46	1,037.3	-675.2	1,166.4	1,150.3	16.06	72.617	
2,200.1	2,193.1	2,177.0	2,176.5	6.6	12.2	30.60	1,037.3	-674.8	1,163.0	1,146.9	16.17	71.942	
2,280.0	2,270.7	2,255.4	2,254.8	6.9	12.4	31.20	1,037.2	-672.5	1,145.0	1,128.3	16.68	68.659	
2,300.0	2,290.1	2,275.0	2,274.4	6.9	12.4	31.35	1,037.1	-671.9	1,140.5	1,123.7	16.80	67.871	
2,375.0	2,362.9	2,347.5	2,347.0	7.2	12.6	31.92	1,036.9	-669.7	1,123.6	1,106.3	17.30	64.930	
2,400.0	2,387.1	2,371.0	2,370.4	7.3	12.7	32.11	1,036.9	-669.0	1,118.0	1,100.5	17.48	63.942	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AWP													Offset Site Error: 0.0 usft	
Survey Program: 431-MWD		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Offset Well Error: 3.0 usft	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance					Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,470.0	2,455.0	2,436.7	2,436.1	7.5	12.9	32.65	1,036.8	-667.0	1,102.5	1,084.5	17.99	61.282		
2,500.0	2,484.1	2,464.9	2,464.3	7.6	12.9	32.89	1,036.8	-666.1	1,095.9	1,077.7	18.20	60.200		
2,565.0	2,547.2	2,516.0	2,515.4	7.8	13.1	33.33	1,036.8	-664.5	1,081.8	1,063.1	18.63	58.070		
2,600.0	2,581.2	2,553.8	2,553.1	8.0	13.2	33.65	1,036.9	-663.6	1,074.3	1,055.4	18.86	56.952		
2,660.0	2,639.4	2,603.7	2,603.1	8.2	13.3	34.05	1,037.1	-662.9	1,061.9	1,042.7	19.23	55.231		
2,700.0	2,678.2	2,637.2	2,636.6	8.4	13.4	34.31	1,037.3	-662.8	1,054.0	1,034.5	19.47	54.128		
2,755.0	2,731.6	2,683.5	2,682.9	8.6	13.6	34.65	1,037.5	-663.3	1,043.4	1,023.6	19.82	52.655		
2,800.0	2,775.2	2,724.2	2,723.6	8.7	13.7	34.93	1,037.8	-664.1	1,035.0	1,014.8	20.19	51.262		
2,850.0	2,823.7	2,773.6	2,773.0	8.9	13.8	35.27	1,038.1	-665.2	1,025.8	1,005.0	20.76	49.419		
2,900.0	2,872.3	2,823.1	2,822.4	9.1	13.9	35.62	1,038.3	-666.3	1,016.5	995.2	21.32	47.676		
2,945.0	2,915.9	2,867.5	2,866.8	9.3	14.0	35.93	1,038.5	-667.3	1,008.2	986.4	21.83	46.181		
3,000.0	2,969.3	2,921.6	2,920.9	9.5	14.2	36.32	1,038.7	-668.6	998.1	975.7	22.36	44.643		
3,040.0	3,008.1	2,960.7	2,960.0	9.7	14.2	36.61	1,038.8	-669.4	990.7	968.1	22.65	43.734		
3,100.0	3,066.3	3,019.3	3,018.5	9.9	14.4	37.04	1,039.0	-670.8	979.7	956.6	23.09	42.429		
3,135.0	3,100.3	3,053.5	3,052.7	10.1	14.5	37.30	1,039.1	-671.6	973.3	950.0	23.34	41.696		
3,200.0	3,163.3	3,117.2	3,116.5	10.4	14.6	37.79	1,039.3	-673.0	961.5	937.7	23.78	40.439		
3,230.0	3,192.5	3,146.9	3,146.1	10.5	14.7	38.03	1,039.4	-673.7	956.0	932.1	23.96	39.903		
3,300.0	3,260.4	3,217.2	3,216.4	10.8	14.9	38.57	1,039.4	-675.5	943.3	918.9	24.40	38.656		
3,325.0	3,284.6	3,242.8	3,242.0	10.9	15.0	38.74	1,039.2	-676.7	938.8	914.2	24.57	38.209		
3,400.0	3,357.4	3,322.7	3,321.7	11.2	15.4	39.12	1,037.1	-682.4	924.8	899.7	25.07	36.892		
3,420.0	3,376.8	3,344.6	3,343.4	11.3	15.6	39.19	1,036.3	-684.4	921.0	895.8	25.20	36.544		
3,500.0	3,454.4	3,427.5	3,425.7	11.7	16.0	39.39	1,032.1	-693.2	905.4	879.6	25.72	35.200		
3,515.0	3,469.0	3,442.6	3,440.7	11.7	16.1	39.43	1,031.4	-694.8	902.4	876.6	25.82	34.956		
3,600.0	3,551.5	3,528.0	3,525.6	12.1	16.5	39.64	1,026.9	-703.6	885.5	859.2	26.35	33.605		
3,610.0	3,561.2	3,538.0	3,535.5	12.1	16.6	39.67	1,026.4	-704.6	883.6	857.1	26.41	33.449		
3,700.0	3,648.5	3,627.4	3,624.4	12.5	17.0	39.93	1,021.6	-713.5	865.5	838.5	27.02	32.033		
3,705.0	3,653.3	3,632.4	3,629.3	12.6	17.0	39.94	1,021.3	-714.0	864.5	837.4	27.05	31.956		
3,800.0	3,745.5	3,726.3	3,722.6	13.0	17.3	40.24	1,016.2	-723.2	845.4	817.7	27.67	30.556		
3,895.0	3,837.7	3,832.2	3,827.8	13.4	17.8	40.57	1,009.8	-733.4	825.7	797.3	28.33	29.142		
3,900.0	3,842.5	3,838.0	3,833.6	13.4	17.8	40.59	1,009.4	-733.9	824.6	796.2	28.37	29.067		
3,990.0	3,929.9	3,942.4	3,937.2	13.8	18.3	40.87	1,000.6	-744.2	804.0	775.0	29.03	27.696		
4,000.0	3,939.6	3,954.0	3,948.6	13.9	18.4	40.89	999.5	-745.3	801.7	772.5	29.11	27.542		
4,085.0	4,022.0	4,035.3	4,029.2	14.3	18.7	41.11	991.8	-753.1	781.4	751.7	29.68	26.326		
4,100.0	4,036.6	4,049.9	4,043.7	14.3	18.8	41.15	990.4	-754.4	777.8	748.0	29.78	26.116		
4,180.0	4,114.2	4,127.8	4,120.8	14.7	19.2	41.41	983.2	-761.5	758.7	728.4	30.32	25.019		
4,200.0	4,133.6	4,147.2	4,140.1	14.8	19.3	41.48	981.4	-763.2	753.9	723.4	30.45	24.757		
4,275.0	4,206.4	4,219.9	4,212.3	15.2	19.5	41.77	974.8	-769.2	736.0	705.1	30.91	23.807		
4,300.0	4,230.7	4,244.1	4,236.3	15.3	19.6	41.88	972.6	-771.2	730.0	699.0	31.07	23.499		
4,370.0	4,298.6	4,311.9	4,303.6	15.6	19.9	42.22	966.6	-776.4	713.3	681.8	31.49	22.653		
4,400.0	4,327.7	4,339.4	4,331.0	15.7	20.0	42.37	964.2	-778.4	706.2	674.5	31.69	22.286		
4,465.0	4,390.8	4,395.6	4,386.8	16.0	20.3	42.64	959.6	-783.0	691.2	659.0	32.17	21.486		
4,500.0	4,424.7	4,426.0	4,416.9	16.2	20.4	42.78	957.2	-785.9	683.4	651.0	32.43	21.072		
4,560.0	4,482.9	4,478.3	4,468.8	16.5	20.7	42.98	953.4	-791.2	670.4	637.6	32.88	20.392		
4,578.5	4,500.9	4,494.4	4,484.8	16.5	20.8	43.03	952.2	-793.0	666.6	633.6	33.02	20.190		
4,600.0	4,521.8	4,518.0	4,508.2	16.6	20.9	43.03	950.6	-795.8	662.2	629.0	33.18	19.960		
4,655.0	4,575.3	4,567.3	4,557.0	16.9	21.1	42.97	947.3	-801.5	651.6	618.0	33.62	19.379		
4,700.0	4,619.4	4,612.0	4,601.3	17.1	21.3	42.91	944.3	-806.7	643.4	609.4	34.00	18.924		
4,750.0	4,668.4	4,661.8	4,650.6	17.4	21.6	42.80	941.0	-812.3	635.0	600.6	34.42	18.447		
4,800.0	4,717.7	4,711.6	4,700.1	17.6	21.8	42.66	937.6	-817.8	627.1	592.2	34.84	17.997		
4,845.0	4,762.1	4,756.7	4,744.8	17.8	22.0	42.50	934.6	-822.7	620.5	585.3	35.16	17.648		
4,900.0	4,816.5	4,811.8	4,799.5	18.0	22.2	42.26	930.9	-828.5	613.1	577.5	35.55	17.244		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 431-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation		
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
4,940.0	4,856.2	4,852.0	4,839.3	18.2	22.4	42.06	928.2	-832.6	608.2	572.3	35.84	16.970	
5,000.0	4,915.9	4,911.4	4,898.4	18.5	22.6	41.72	924.1	-838.6	601.5	565.2	36.28	16.580	
5,035.0	4,950.7	4,944.5	4,931.2	18.6	22.7	41.49	922.0	-841.9	598.1	561.6	36.54	16.369	
5,100.0	5,015.6	5,006.0	4,992.2	18.9	23.0	40.99	918.1	-848.4	593.0	555.9	37.04	16.008	
5,130.0	5,045.5	5,034.4	5,020.3	19.0	23.1	40.72	916.4	-851.6	591.1	553.8	37.27	15.859	
5,200.0	5,115.4	5,101.0	5,086.4	19.2	23.3	40.02	912.5	-859.2	588.0	550.2	37.83	15.543	
5,225.0	5,140.4	5,125.5	5,110.7	19.3	23.4	39.73	911.1	-862.1	587.3	549.3	38.01	15.452	
5,278.6	5,194.0	5,178.0	5,162.7	19.3	23.6	-21.76	908.2	-868.5	586.4	548.0	38.40	15.272	
5,300.0	5,215.4	5,198.9	5,183.5	19.3	23.7	-22.03	907.0	-871.0	586.3	547.8	38.53	15.216	
5,320.0	5,235.4	5,218.5	5,202.9	19.4	23.8	-22.29	905.9	-873.5	586.2	547.5	38.66	15.161	
5,400.0	5,315.4	5,297.2	5,280.8	19.4	24.1	-23.37	901.4	-883.5	585.9	546.7	39.20	14.949	
5,415.0	5,330.4	5,312.3	5,295.8	19.4	24.1	-23.57	900.5	-885.4	585.9	546.6	39.30	14.910	
5,500.0	5,415.4	5,398.0	5,380.6	19.4	24.4	-24.72	895.6	-896.1	585.8	545.9	39.86	14.697	
5,510.0	5,425.4	5,408.1	5,390.6	19.4	24.5	-24.85	895.0	-897.3	585.8	545.9	39.93	14.672	
5,600.0	5,515.4	5,498.2	5,480.0	19.5	24.8	-26.02	889.8	-908.0	585.7	545.2	40.51	14.457	
5,605.0	5,520.4	5,503.2	5,484.9	19.5	24.8	-26.08	889.5	-908.6	585.7	545.1	40.54	14.445	
5,607.9	5,523.3	5,506.0	5,487.7	19.5	24.8	-26.12	889.4	-908.9	585.7	545.1	40.56	14.439	
5,700.0	5,615.4	5,596.9	5,577.9	19.5	25.2	-27.25	884.3	-919.3	585.8	544.7	41.15	14.236	
5,795.0	5,710.4	5,693.8	5,674.0	19.6	25.6	-28.41	879.1	-930.0	586.2	544.5	41.75	14.042	
5,800.0	5,715.4	5,699.2	5,679.4	19.6	25.6	-28.47	878.8	-930.5	586.2	544.4	41.78	14.032	
5,890.0	5,805.4	5,797.2	5,776.7	19.6	26.0	-29.62	872.7	-940.6	585.7	543.4	42.32	13.839	
5,900.0	5,815.4	5,808.1	5,787.5	19.6	26.0	-29.75	871.9	-941.6	585.6	543.2	42.38	13.817	
5,985.0	5,900.4	5,899.7	5,878.4	19.7	26.3	-30.83	864.9	-950.3	584.0	541.1	42.89	13.617	
6,000.0	5,915.4	5,915.6	5,894.2	19.7	26.4	-31.03	863.5	-951.9	583.7	540.7	42.98	13.581	
6,080.0	5,995.4	6,000.7	5,978.5	19.7	26.7	-32.13	855.6	-960.1	581.4	537.9	43.46	13.378	
6,100.0	6,015.4	6,022.0	5,999.6	19.7	26.8	-32.42	853.5	-962.2	580.7	537.1	43.58	13.326	
6,175.0	6,090.4	6,103.1	6,079.8	19.7	27.1	-33.57	844.5	-970.3	577.9	533.8	44.04	13.122	
6,200.0	6,115.4	6,130.2	6,106.6	19.8	27.2	-33.98	841.2	-973.1	576.7	532.6	44.19	13.051	
6,270.0	6,185.4	6,206.0	6,181.3	19.8	27.5	-35.19	831.3	-980.9	573.2	528.6	44.63	12.844	
6,300.0	6,215.4	6,238.3	6,213.1	19.8	27.6	-35.73	826.6	-984.3	571.5	526.7	44.82	12.752	
6,365.0	6,280.4	6,302.8	6,276.6	19.8	27.9	-36.81	817.4	-990.7	567.8	522.6	45.24	12.550	
6,400.0	6,315.4	6,337.9	6,311.2	19.8	28.0	-37.37	812.5	-994.1	565.9	520.4	45.47	12.446	
6,460.0	6,375.4	6,398.0	6,370.5	19.9	28.2	-38.33	804.2	-999.5	562.6	516.7	45.85	12.271	
6,500.0	6,415.4	6,437.3	6,409.3	19.9	28.4	-38.93	798.9	-1,002.7	560.4	514.3	46.09	12.158	
6,555.0	6,470.4	6,489.4	6,460.8	19.9	28.6	-39.70	792.2	-1,006.9	557.7	511.3	46.43	12.011	
6,600.0	6,515.4	6,532.2	6,503.1	19.9	28.8	-40.29	787.0	-1,010.2	555.7	509.0	46.70	11.899	
6,650.0	6,565.4	6,579.8	6,550.3	20.0	29.0	-40.93	781.6	-1,013.6	553.7	506.7	47.00	11.783	
6,700.0	6,615.4	6,627.4	6,597.5	20.0	29.1	-41.52	776.6	-1,016.9	552.0	504.7	47.28	11.676	
6,745.0	6,660.4	6,670.3	6,640.1	20.0	29.3	-41.99	772.6	-1,019.4	550.7	503.2	47.52	11.589	
6,800.0	6,715.4	6,722.6	6,692.2	20.0	29.5	-42.46	768.6	-1,021.8	549.3	501.5	47.79	11.494	
6,840.0	6,755.4	6,760.0	6,729.6	20.1	29.6	-42.72	766.4	-1,023.1	548.5	500.5	47.98	11.432	
6,900.0	6,815.4	6,816.6	6,786.1	20.1	29.8	-42.99	764.0	-1,024.5	547.6	499.4	48.24	11.352	
6,935.0	6,850.4	6,850.3	6,819.8	20.1	29.9	-43.09	763.1	-1,024.9	547.3	498.9	48.38	11.313	
6,986.2	6,901.7	6,896.6	6,866.1	20.1	30.0	-43.15	762.5	-1,025.2	546.9	498.4	48.58	11.259 CC	
7,000.0	6,915.4	6,908.1	6,877.6	20.1	30.0	-43.16	762.5	-1,025.2	547.0	498.3	48.63	11.247 ES	
7,030.0	6,945.4	6,936.0	6,905.5	20.1	30.1	-43.15	762.7	-1,025.3	547.2	498.5	48.74	11.228	
7,100.0	7,015.4	6,969.4	6,938.8	20.2	30.2	-43.08	764.3	-1,025.9	550.2	501.2	49.01	11.227 SF	
7,125.0	7,040.4	6,985.0	6,954.3	20.2	30.2	-43.02	765.7	-1,026.4	552.4	503.3	49.07	11.257	
7,200.0	7,115.4	7,030.0	6,998.8	20.2	30.4	-42.72	772.2	-1,028.5	562.1	512.9	49.23	11.418	
7,220.0	7,135.4	7,030.0	6,998.8	20.2	30.4	-42.72	772.2	-1,028.5	565.4	516.2	49.15	11.502	
7,300.0	7,215.4	7,081.0	7,048.4	20.3	30.5	-42.19	783.5	-1,031.9	582.0	532.8	49.16	11.839	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AWP												Offset Site Error:	0.0 usft		
Survey Program:		431-MWD <th colspan="2">Offset</th> <th colspan="2">Semi Major Axis</th> <th colspan="2">Offset Wellbore Centre</th> <th colspan="2">Rule Assigned:</th> <th>Offset Well Error:</th> <td>3.0 usft</td>				Offset		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Major Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
7,315.0	7,230.4	7,081.0	7,048.4	20.3	30.5	-42.19	783.5	-1,031.9	585.5	536.5	49.03	11.943			
7,400.0	7,315.4	7,128.0	7,093.1	20.3	30.6	-41.54	797.6	-1,035.7	609.3	560.5	48.78	12.492			
7,410.0	7,325.4	7,128.0	7,093.1	20.3	30.6	-41.54	797.6	-1,035.7	612.5	563.8	48.65	12.589			
7,500.0	7,415.4	7,176.0	7,137.3	20.4	30.7	-40.67	815.8	-1,039.8	643.8	595.6	48.21	13.354			
7,505.0	7,420.4	7,176.0	7,137.3	20.4	30.7	-40.67	815.8	-1,039.8	645.7	597.6	48.14	13.414			
7,600.0	7,515.4	7,223.0	7,178.9	20.4	30.8	-39.63	837.4	-1,043.5	684.9	637.4	47.51	14.415			
7,695.0	7,610.4	7,271.0	7,219.6	20.5	30.9	-38.45	862.5	-1,047.3	729.6	682.7	46.88	15.563			
7,700.0	7,615.4	7,271.0	7,219.6	20.5	30.9	-38.45	862.5	-1,047.3	732.0	685.2	46.80	15.643			
7,790.0	7,705.4	7,303.0	7,245.6	20.5	30.9	-37.61	881.0	-1,049.7	778.9	733.0	45.92	16.963			
7,800.0	7,715.4	7,318.0	7,257.4	20.5	31.0	-37.19	890.1	-1,050.7	784.5	738.5	46.05	17.035			
7,885.0	7,800.4	7,340.6	7,274.7	20.6	31.0	-36.52	904.6	-1,051.8	832.8	787.7	45.09	18.469			
7,900.0	7,815.4	7,346.5	7,279.1	20.6	31.0	-36.33	908.5	-1,051.9	841.7	796.7	44.96	18.719			
7,980.0	7,895.4	7,367.0	7,294.2	20.6	31.0	-35.67	922.4	-1,052.2	890.7	846.6	44.10	20.197			
8,000.0	7,915.4	7,367.0	7,294.2	20.6	31.0	-35.67	922.4	-1,052.2	903.5	859.7	43.79	20.632			
8,075.0	7,990.4	7,397.6	7,315.5	20.7	31.1	-34.63	944.4	-1,052.2	952.4	909.2	43.28	22.006			
8,100.0	8,015.4	7,414.0	7,326.3	20.7	31.1	-34.06	956.8	-1,052.2	969.5	926.3	43.24	22.420			
8,170.0	8,085.4	7,414.0	7,326.3	20.7	31.1	-34.06	956.8	-1,052.2	1,018.0	975.7	42.30	24.068			
8,200.0	8,115.4	7,414.0	7,326.3	20.7	31.1	-34.06	956.8	-1,052.2	1,039.6	997.6	41.91	24.805			
8,265.0	8,180.4	7,436.5	7,340.4	20.7	31.1	-33.30	974.2	-1,052.3	1,086.8	1,045.3	41.55	26.154			
8,300.0	8,215.4	7,442.6	7,344.1	20.8	31.2	-33.10	979.2	-1,052.4	1,112.9	1,071.6	41.27	26.966			
8,360.0	8,275.4	7,462.0	7,355.4	20.8	31.2	-32.48	994.9	-1,053.0	1,158.6	1,117.6	40.99	28.263			
8,400.0	8,315.4	7,462.0	7,355.4	20.8	31.2	-32.48	994.9	-1,053.0	1,189.4	1,148.8	40.58	29.308			
8,447.6	8,363.0	7,462.0	7,355.4	20.8	31.2	-32.48	994.9	-1,053.0	1,226.8	1,186.5	40.34	30.415			
8,450.0	8,365.4	7,462.0	7,355.4	20.8	31.2	146.84	994.9	-1,053.0	1,228.7	1,188.4	40.31	30.479			
8,455.0	8,370.4	7,462.0	7,355.4	20.8	31.2	146.48	994.9	-1,053.0	1,232.7	1,192.4	40.27	30.612			
8,500.0	8,415.4	7,462.0	7,355.4	20.8	31.2	142.65	994.9	-1,053.0	1,269.8	1,229.9	39.89	31.831			
8,550.0	8,464.9	7,462.0	7,355.4	20.9	31.2	136.93	994.9	-1,053.0	1,313.4	1,273.8	39.55	33.208			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 430-MWD		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+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	12.51	1,039.0	230.5	1,064.9					
95.0	95.0	59.3	59.3	3.0	3.2	12.51	1,038.9	230.5	1,064.2	1,058.0	6.17	172.577		
100.0	100.0	64.5	64.5	3.0	3.2	12.51	1,038.9	230.5	1,064.2	1,058.0	6.20	171.761		
190.0	190.0	157.5	157.5	3.1	4.0	12.52	1,038.6	230.6	1,063.9	1,056.8	7.06	150.692		
200.0	200.0	167.8	167.8	3.1	4.1	12.52	1,038.5	230.7	1,063.8	1,056.7	7.19	148.019		
285.0	285.0	255.6	255.6	3.3	5.2	12.54	1,037.9	230.9	1,063.3	1,055.0	8.35	127.340		
300.0	300.0	271.1	271.1	3.3	5.4	12.55	1,037.8	230.9	1,063.2	1,054.6	8.58	123.983		
380.0	380.0	353.8	353.8	3.4	6.6	12.57	1,036.9	231.2	1,062.4	1,052.6	9.82	108.223		
400.0	400.0	374.4	374.4	3.4	6.9	12.58	1,036.6	231.3	1,062.2	1,052.1	10.14	104.750		
475.0	475.0	451.4	451.4	3.5	7.9	12.61	1,035.6	231.7	1,061.3	1,050.1	11.20	94.738		
500.0	500.0	476.7	476.7	3.5	8.1	12.62	1,035.2	231.8	1,060.9	1,049.5	11.42	92.902		
570.0	570.0	547.4	547.3	3.6	8.6	12.66	1,034.1	232.2	1,060.0	1,048.0	12.03	88.122		
600.0	600.0	577.7	577.6	3.6	8.8	12.67	1,033.7	232.3	1,059.6	1,047.3	12.29	86.196		
665.0	665.0	643.2	643.2	3.7	9.2	12.70	1,032.6	232.7	1,058.6	1,045.8	12.75	83.007		
700.0	700.0	678.4	678.4	3.8	9.4	12.71	1,032.0	232.8	1,058.1	1,045.2	12.90	82.002		
760.0	760.0	738.7	738.7	3.8	9.5	12.74	1,031.0	233.2	1,057.2	1,044.0	13.16	80.346		
800.0	800.0	778.9	778.9	3.9	9.7	12.76	1,030.3	233.4	1,056.5	1,043.2	13.33	79.268		
855.0	855.0	834.3	834.2	4.0	9.8	12.79	1,029.3	233.7	1,055.7	1,042.1	13.56	77.828		
900.0	900.0	879.7	879.6	4.0	10.0	12.82	1,028.5	234.0	1,054.9	1,041.2	13.76	76.671		
950.0	950.0	930.1	930.0	4.1	10.1	12.85	1,027.6	234.3	1,054.1	1,040.1	13.98	75.429		
1,000.0	1,000.0	980.6	980.4	4.1	10.3	12.87	1,026.7	234.6	1,053.3	1,039.1	14.19	74.216		
1,045.0	1,045.0	1,025.9	1,025.7	4.2	10.4	12.90	1,025.8	234.9	1,052.5	1,038.1	14.39	73.153		
1,100.0	1,100.0	1,081.2	1,081.1	4.2	10.6	12.92	1,024.7	235.2	1,051.5	1,036.9	14.63	71.884		
1,140.0	1,140.0	1,121.5	1,121.3	4.3	10.8	12.94	1,024.0	235.3	1,050.8	1,036.0	14.80	70.989		
1,200.0	1,200.0	1,181.9	1,181.7	4.4	11.0	12.97	1,022.8	235.6	1,049.7	1,034.7	15.06	69.682		
1,235.0	1,235.0	1,217.4	1,217.3	4.4	11.1	12.98	1,022.1	235.7	1,049.1	1,033.9	15.21	68.974		
1,300.0	1,300.0	1,283.4	1,283.3	4.5	11.3	13.01	1,020.7	235.7	1,047.8	1,032.3	15.48	67.688		
1,330.0	1,330.0	1,313.9	1,313.8	4.5	11.4	13.01	1,020.1	235.8	1,047.2	1,031.6	15.60	67.109		
1,400.0	1,400.0	1,385.5	1,385.4	4.6	11.6	13.03	1,018.6	235.7	1,045.7	1,029.8	15.90	65.779		
1,425.0	1,425.0	1,411.8	1,411.6	4.6	11.7	13.03	1,018.0	235.7	1,045.2	1,029.2	16.00	65.303		
1,500.0	1,500.0	1,490.5	1,490.3	4.7	12.0	13.06	1,015.9	235.7	1,043.3	1,027.0	16.33	63.897		
1,520.0	1,520.0	1,511.5	1,511.3	4.7	12.0	73.92	1,015.3	235.8	1,042.7	1,026.3	16.41	63.525		
1,600.0	1,600.0	1,585.6	1,585.4	4.9	12.2	74.09	1,013.1	236.1	1,040.1	1,023.4	16.69	62.324		
1,615.0	1,615.0	1,597.0	1,596.7	4.9	12.3	74.12	1,012.9	236.1	1,039.6	1,022.9	16.73	62.129		
1,700.0	1,699.8	1,663.1	1,662.8	5.1	12.4	74.36	1,012.3	236.1	1,037.6	1,020.6	16.99	61.080		
1,710.0	1,709.8	1,672.8	1,672.5	5.1	12.4	74.40	1,012.3	236.1	1,037.4	1,020.4	17.02	60.947		
1,800.0	1,799.5	1,760.0	1,759.7	5.3	12.5	74.85	1,012.4	235.9	1,035.3	1,018.0	17.33	59.754		
1,805.0	1,804.4	1,764.8	1,764.5	5.3	12.5	74.87	1,012.4	235.9	1,035.2	1,017.9	17.34	59.687		
1,900.0	1,898.7	1,856.7	1,856.4	5.6	12.7	75.53	1,012.8	236.0	1,032.5	1,014.9	17.67	58.420		
1,995.0	1,992.5	1,950.1	1,949.8	5.9	12.9	76.38	1,013.2	236.2	1,029.4	1,011.3	18.04	57.060		
2,000.0	1,997.5	1,955.0	1,954.7	5.9	12.9	76.43	1,013.2	236.2	1,029.2	1,011.1	18.06	56.989		
2,090.0	2,085.8	2,042.9	2,042.7	6.2	13.1	77.41	1,013.6	236.6	1,025.7	1,007.3	18.42	55.701		
2,100.0	2,095.6	2,052.8	2,052.5	6.3	13.2	77.53	1,013.6	236.6	1,025.3	1,006.9	18.46	55.558		
2,185.0	2,178.5	2,136.1	2,135.8	6.6	13.4	78.63	1,014.0	236.9	1,021.8	1,003.0	18.81	54.332		
2,200.1	2,193.1	2,150.8	2,150.6	6.6	13.4	78.84	1,014.0	237.0	1,021.1	1,002.3	18.87	54.118		
2,280.0	2,270.7	2,228.8	2,228.5	6.9	13.6	79.89	1,014.3	237.2	1,017.9	998.7	19.20	53.001		
2,300.0	2,290.1	2,248.3	2,248.0	6.9	13.7	80.15	1,014.4	237.2	1,017.1	997.8	19.29	52.729		
2,375.0	2,362.9	2,321.2	2,320.9	7.2	13.9	81.14	1,014.7	237.4	1,014.4	994.8	19.61	51.725		
2,400.0	2,387.1	2,345.5	2,345.2	7.3	13.9	81.47	1,014.8	237.5	1,013.5	993.8	19.72	51.400		
2,470.0	2,455.0	2,413.5	2,413.3	7.5	14.1	82.40	1,015.0	237.7	1,011.4	991.4	20.02	50.508		
2,500.0	2,484.1	2,442.8	2,442.5	7.6	14.2	82.80	1,015.1	237.8	1,010.6	990.4	20.15	50.151		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 430-MWD												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
2,565.0	2,547.2	2,506.3	2,506.1	7.8	14.3	83.67	1,015.2	238.0	1,008.9	988.5	20.42	49.407	
2,600.0	2,581.2	2,540.5	2,540.3	8.0	14.4	84.15	1,015.3	238.1	1,008.1	987.5	20.57	49.020	
2,660.0	2,639.4	2,599.1	2,598.9	8.2	14.5	84.96	1,015.4	238.4	1,006.9	986.1	20.82	48.369	
2,700.0	2,678.2	2,638.2	2,637.9	8.4	14.6	85.50	1,015.5	238.6	1,006.2	985.2	20.99	47.932	
2,755.0	2,731.6	2,692.0	2,691.7	8.6	14.7	86.25	1,015.5	238.7	1,005.3	984.1	21.24	47.328	
2,800.0	2,775.2	2,736.0	2,735.7	8.7	14.9	86.86	1,015.6	238.8	1,004.7	983.3	21.45	46.849	
2,850.0	2,823.7	2,784.9	2,784.6	8.9	15.0	87.53	1,015.6	238.9	1,004.2	982.5	21.68	46.328	
2,900.0	2,872.3	2,833.5	2,833.2	9.1	15.1	88.20	1,015.7	238.9	1,003.8	981.9	21.94	45.752	
2,945.0	2,915.9	2,877.0	2,876.8	9.3	15.3	88.80	1,015.8	238.8	1,003.6	981.4	22.20	45.202	
3,000.0	2,969.3	2,930.3	2,930.0	9.5	15.5	89.53	1,015.9	238.8	1,003.5	981.0	22.52	44.555	
3,005.1	2,974.3	2,935.2	2,935.0	9.6	15.5	89.60	1,015.9	238.8	1,003.5	980.9	22.55	44.496 CC	
3,040.0	3,008.1	2,969.0	2,968.7	9.7	15.6	90.06	1,016.0	238.8	1,003.5	980.8	22.76	44.099	
3,100.0	3,066.3	3,027.2	3,026.9	9.9	15.8	90.86	1,016.2	238.7	1,003.8	980.7	23.11	43.442 ES	
3,135.0	3,100.3	3,061.2	3,061.0	10.1	16.0	91.32	1,016.3	238.6	1,004.0	980.7	23.31	43.071	
3,200.0	3,163.3	3,124.4	3,124.2	10.4	16.2	92.18	1,016.5	238.6	1,004.6	980.9	23.69	42.410	
3,230.0	3,192.5	3,153.6	3,153.3	10.5	16.3	92.58	1,016.5	238.5	1,005.0	981.1	23.86	42.114	
3,300.0	3,260.4	3,221.7	3,221.4	10.8	16.5	93.51	1,016.7	238.4	1,006.0	981.7	24.27	41.449	
3,325.0	3,284.6	3,246.0	3,245.7	10.9	16.6	93.84	1,016.8	238.4	1,006.4	982.0	24.42	41.219	
3,400.0	3,357.4	3,318.9	3,318.7	11.2	16.9	94.83	1,016.9	238.3	1,007.9	983.1	24.85	40.553	
3,420.0	3,376.8	3,338.4	3,338.1	11.3	16.9	95.10	1,017.0	238.3	1,008.4	983.4	24.97	40.381	
3,500.0	3,454.4	3,416.6	3,416.4	11.7	17.2	96.16	1,017.1	238.3	1,010.4	985.0	25.39	39.796	
3,515.0	3,469.0	3,431.4	3,431.1	11.7	17.2	96.36	1,017.1	238.2	1,010.8	985.4	25.46	39.704	
3,600.0	3,551.5	3,515.0	3,514.7	12.1	17.4	97.50	1,017.1	238.2	1,013.4	987.5	25.85	39.194	
3,610.0	3,561.2	3,524.8	3,524.5	12.1	17.4	97.63	1,017.1	238.2	1,013.7	987.8	25.90	39.135	
3,700.0	3,648.5	3,612.6	3,612.3	12.5	17.6	98.82	1,017.0	238.2	1,016.8	990.4	26.34	38.597	
3,705.0	3,653.3	3,617.4	3,617.2	12.6	17.6	98.89	1,017.0	238.2	1,016.9	990.6	26.37	38.567	
3,800.0	3,745.5	3,709.5	3,709.2	13.0	17.9	100.12	1,016.9	238.1	1,020.7	993.9	26.86	38.000	
3,895.0	3,837.7	3,802.1	3,801.8	13.4	18.1	101.35	1,016.8	237.9	1,025.0	997.6	27.36	37.460	
3,900.0	3,842.5	3,807.0	3,806.7	13.4	18.1	101.42	1,016.8	237.9	1,025.2	997.8	27.39	37.432	
3,990.0	3,929.9	3,895.2	3,895.0	13.8	18.4	102.58	1,016.7	237.8	1,029.7	1,001.8	27.87	36.941	
4,000.0	3,939.6	3,905.0	3,904.8	13.9	18.4	102.71	1,016.7	237.7	1,030.2	1,002.3	27.93	36.887	
4,085.0	4,022.0	3,988.3	3,988.0	14.3	18.6	103.80	1,016.5	237.6	1,034.8	1,006.4	28.41	36.423	
4,100.0	4,036.6	4,002.9	4,002.6	14.3	18.7	103.99	1,016.5	237.5	1,035.6	1,007.1	28.50	36.339	
4,180.0	4,114.2	4,081.1	4,080.8	14.7	18.9	105.00	1,016.3	237.3	1,040.3	1,011.3	28.98	35.901	
4,200.0	4,133.6	4,100.7	4,100.4	14.8	19.0	105.25	1,016.2	237.2	1,041.5	1,012.4	29.10	35.793	
4,275.0	4,206.4	4,173.8	4,173.5	15.2	19.2	106.19	1,016.0	237.0	1,046.2	1,016.7	29.56	35.399	
4,300.0	4,230.7	4,198.1	4,197.8	15.3	19.3	106.50	1,016.0	236.9	1,047.9	1,018.2	29.71	35.273	
4,370.0	4,298.6	4,266.0	4,265.7	15.6	19.5	107.35	1,015.8	236.7	1,052.6	1,022.5	30.14	34.922	
4,400.0	4,327.7	4,295.2	4,294.9	15.7	19.6	107.72	1,015.7	236.6	1,054.7	1,024.4	30.33	34.775	
4,465.0	4,390.8	4,358.0	4,357.7	16.0	19.7	108.51	1,015.5	236.3	1,059.5	1,028.7	30.74	34.463	
4,500.0	4,424.7	4,391.7	4,391.4	16.2	19.8	108.92	1,015.4	236.2	1,062.1	1,031.1	30.97	34.299	
4,560.0	4,482.9	4,449.5	4,449.2	16.5	20.0	109.64	1,015.3	236.1	1,066.8	1,035.4	31.34	34.036	
4,578.5	4,500.9	4,467.3	4,467.0	16.5	20.1	109.85	1,015.2	236.0	1,068.3	1,036.8	31.46	33.956	
4,600.0	4,521.8	4,488.1	4,487.8	16.6	20.1	110.14	1,015.2	236.0	1,070.0	1,038.4	31.59	33.872	
4,655.0	4,575.3	4,541.6	4,541.3	16.9	20.3	110.82	1,015.1	235.8	1,074.2	1,042.3	31.95	33.627	
4,700.0	4,619.4	4,585.9	4,585.6	17.1	20.4	111.34	1,015.0	235.7	1,077.5	1,045.3	32.24	33.425	
4,750.0	4,668.4	4,635.4	4,635.1	17.4	20.6	111.87	1,014.9	235.5	1,080.9	1,048.4	32.55	33.206	
4,800.0	4,717.7	4,685.0	4,684.8	17.6	20.7	112.36	1,014.8	235.4	1,084.1	1,051.2	32.87	32.983	
4,845.0	4,762.1	4,729.2	4,728.9	17.8	20.9	112.75	1,014.7	235.2	1,086.6	1,053.5	33.13	32.800	
4,900.0	4,816.5	4,782.3	4,782.0	18.0	21.0	113.16	1,014.6	235.0	1,089.5	1,056.1	33.43	32.595	
4,940.0	4,856.2	4,820.9	4,820.6	18.2	21.1	113.43	1,014.6	234.9	1,091.4	1,057.7	33.63	32.452	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program:		430-MWD				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			
5,000.0	4,915.9	4,879.0	4,878.8	18.5	21.3	113.77	1,014.6	234.8	1,093.9	1,060.0	33.94	32.234			
5,035.0	4,950.7	4,913.1	4,912.8	18.6	21.4	113.94	1,014.6	234.8	1,095.2	1,061.1	34.11	32.110			
5,100.0	5,015.6	4,976.9	4,976.6	18.9	21.5	114.20	1,014.7	234.8	1,097.2	1,062.8	34.43	31.867			
5,130.0	5,045.5	5,009.5	5,009.2	19.0	21.7	114.30	1,014.7	234.9	1,097.9	1,063.3	34.61	31.720			
5,200.0	5,115.4	5,102.5	5,102.2	19.2	22.2	114.61	1,012.1	235.4	1,098.3	1,063.0	35.28	31.133			
5,225.0	5,140.4	5,137.8	5,137.4	19.3	22.4	114.74	1,010.0	235.8	1,097.9	1,062.3	35.58	30.854			
5,278.6	5,194.0	5,205.9	5,205.2	19.3	22.9	54.20	1,003.9	236.9	1,095.9	1,059.8	36.10	30.357			
5,300.0	5,215.4	5,227.3	5,226.5	19.3	22.9	54.30	1,001.8	237.2	1,095.0	1,058.8	36.18	30.262			
5,320.0	5,235.4	5,247.3	5,246.4	19.4	23.0	54.40	999.8	237.6	1,094.1	1,057.8	36.27	30.166			
5,400.0	5,315.4	5,328.8	5,327.5	19.4	23.2	54.78	991.7	238.9	1,090.5	1,053.9	36.60	29.791			
5,415.0	5,330.4	5,344.3	5,342.9	19.4	23.3	54.86	990.2	239.1	1,089.8	1,053.1	36.67	29.722			
5,500.0	5,415.4	5,429.6	5,427.8	19.4	23.5	55.25	981.8	240.2	1,085.9	1,048.8	37.01	29.341			
5,510.0	5,425.4	5,439.4	5,437.6	19.4	23.6	55.30	980.8	240.3	1,085.4	1,048.4	37.05	29.297			
5,600.0	5,515.4	5,529.0	5,526.7	19.5	23.8	55.70	972.2	241.3	1,081.3	1,043.9	37.41	28.906			
5,605.0	5,520.4	5,534.0	5,531.7	19.5	23.8	55.72	971.8	241.3	1,081.1	1,043.7	37.43	28.885			
5,700.0	5,615.4	5,629.3	5,626.6	19.5	24.1	56.14	962.9	242.1	1,076.8	1,039.0	37.81	28.478			
5,795.0	5,710.4	5,720.4	5,717.3	19.6	24.4	56.53	954.5	242.9	1,072.6	1,034.4	38.18	28.095			
5,800.0	5,715.4	5,725.0	5,721.9	19.6	24.4	56.55	954.1	242.9	1,072.4	1,034.2	38.20	28.075			
5,890.0	5,805.4	5,810.7	5,807.3	19.6	24.6	56.90	946.8	243.8	1,068.9	1,030.4	38.54	27.734			
5,900.0	5,815.4	5,820.4	5,816.9	19.6	24.7	56.94	946.0	243.9	1,068.6	1,030.0	38.58	27.697			
5,985.0	5,900.4	5,900.5	5,896.8	19.7	24.9	57.23	940.0	244.4	1,065.6	1,026.7	38.90	27.395			
6,000.0	5,915.4	5,914.4	5,910.7	19.7	24.9	57.27	939.1	244.5	1,065.1	1,026.2	38.95	27.345			
6,080.0	5,995.4	6,000.0	5,996.0	19.7	25.2	57.56	933.2	245.1	1,062.7	1,023.4	39.30	27.042			
6,100.0	6,015.4	6,024.2	6,020.2	19.7	25.3	57.64	931.4	245.2	1,061.9	1,022.5	39.40	26.955			
6,175.0	6,090.4	6,097.3	6,093.0	19.7	25.5	57.91	925.6	245.3	1,058.9	1,019.2	39.69	26.677			
6,200.0	6,115.4	6,119.8	6,115.5	19.8	25.6	57.99	924.0	245.4	1,057.9	1,018.2	39.78	26.594			
6,270.0	6,185.4	6,187.0	6,182.5	19.8	25.8	58.21	919.4	245.6	1,055.6	1,015.5	40.05	26.357			
6,300.0	6,215.4	6,216.7	6,212.2	19.8	25.9	58.29	917.5	245.6	1,054.6	1,014.4	40.17	26.255			
6,365.0	6,280.4	6,284.9	6,280.3	19.8	26.1	58.48	913.3	245.5	1,052.4	1,012.0	40.44	26.023			
6,400.0	6,315.4	6,322.6	6,317.8	19.8	26.2	58.61	910.7	245.5	1,051.1	1,010.5	40.60	25.893			
6,460.0	6,375.4	6,378.2	6,373.3	19.9	26.4	58.79	906.7	245.5	1,048.9	1,008.1	40.82	25.696			
6,500.0	6,415.4	6,414.3	6,409.4	19.9	26.5	58.89	904.5	245.5	1,047.7	1,006.7	40.97	25.573			
6,555.0	6,470.4	6,469.9	6,464.9	19.9	26.6	59.03	901.5	245.4	1,046.0	1,004.8	41.19	25.393			
6,600.0	6,515.4	6,516.9	6,511.8	19.9	26.8	59.16	898.7	245.4	1,044.6	1,003.2	41.39	25.240			
6,650.0	6,565.4	6,562.3	6,557.1	20.0	26.9	59.29	896.0	245.4	1,043.1	1,001.5	41.57	25.094			
6,700.0	6,615.4	6,606.9	6,601.6	20.0	27.1	59.41	893.5	245.5	1,041.8	1,000.1	41.74	24.959			
6,745.0	6,660.4	6,650.5	6,645.2	20.0	27.2	59.53	891.1	245.8	1,040.8	998.9	41.92	24.832			
6,800.0	6,715.4	6,705.4	6,700.0	20.0	27.4	59.67	888.3	246.1	1,039.7	997.5	42.14	24.674			
6,840.0	6,755.4	6,743.9	6,738.5	20.1	27.5	59.77	886.4	246.3	1,038.8	996.5	42.29	24.566			
6,900.0	6,815.4	6,801.3	6,795.8	20.1	27.7	59.90	883.9	246.5	1,037.7	995.2	42.51	24.409			
6,935.0	6,850.4	6,834.5	6,829.0	20.1	27.8	59.96	882.6	246.6	1,037.1	994.5	42.65	24.319			
7,000.0	6,915.4	6,896.1	6,890.5	20.1	28.0	60.03	881.2	246.5	1,036.2	993.3	42.89	24.159			
7,030.0	6,945.4	6,925.6	6,920.1	20.1	28.1	60.04	880.8	246.3	1,035.9	992.9	43.01	24.086			
7,100.0	7,015.4	6,990.0	6,984.5	20.2	28.3	60.06	880.1	245.8	1,035.1	991.8	43.25	23.931			
7,125.0	7,040.4	7,010.3	7,004.8	20.2	28.4	60.05	880.2	245.6	1,034.9	991.6	43.32	23.889			
7,130.8	7,046.2	7,014.1	7,008.6	20.2	28.4	60.04	880.3	245.5	1,034.9	991.6	43.33	23.883			
7,200.0	7,115.4	7,054.0	7,048.4	20.2	28.5	59.92	882.4	244.8	1,035.8	992.4	43.42	23.853 SF			
7,220.0	7,135.4	7,064.1	7,058.4	20.2	28.5	59.87	883.4	244.6	1,036.4	993.0	43.43	23.863			
7,300.0	7,215.4	7,097.5	7,091.4	20.3	28.7	59.62	888.3	244.1	1,041.3	997.9	43.39	24.000			
7,315.0	7,230.4	7,104.2	7,098.0	20.3	28.7	59.55	889.6	244.0	1,042.6	999.2	43.38	24.037			
7,400.0	7,315.4	7,149.0	7,141.4	20.3	28.8	59.00	900.8	243.2	1,052.2	1,008.9	43.31	24.295			

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 #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 430-MWD													Offset Well Error:	3.0 usft
Reference	Rule Assigned:													
Measured Depth	Vertical Depth	Measured Depth	Vertical Depth	Semi Major Axis Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance Between Centres		Between Ellipses	Minimum Separation	Separation Factor	Warning
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)	(usft)		
7,410.0	7,325.4	7,149.0	7,141.4	20.3	28.8	59.00	900.8	243.2	1,053.5	1,010.3	43.26	24.354		
7,500.0	7,415.4	7,193.5	7,183.3	20.4	29.0	58.28	915.7	242.1	1,067.9	1,024.8	43.09	24.781		
7,505.0	7,420.4	7,195.6	7,185.3	20.4	29.0	58.24	916.4	242.0	1,068.8	1,025.8	43.08	24.810		
7,600.0	7,515.4	7,236.7	7,222.6	20.4	29.1	57.42	933.5	240.8	1,088.8	1,046.0	42.80	25.439		
7,695.0	7,610.4	7,276.0	7,257.2	20.5	29.2	56.54	952.2	239.6	1,113.4	1,070.9	42.46	26.223		
7,700.0	7,615.4	7,276.0	7,257.2	20.5	29.2	56.54	952.2	239.6	1,114.8	1,072.4	42.42	26.280		
7,790.0	7,705.4	7,308.0	7,284.3	20.5	29.3	55.76	969.1	238.8	1,142.6	1,100.6	42.02	27.194		
7,800.0	7,715.4	7,308.0	7,284.3	20.5	29.3	55.76	969.1	238.8	1,146.0	1,104.1	41.94	27.326		
7,885.0	7,800.4	7,340.0	7,310.5	20.6	29.3	54.93	987.5	237.8	1,176.5	1,134.9	41.56	28.309		
7,900.0	7,815.4	7,351.2	7,319.3	20.6	29.4	54.63	994.3	237.4	1,182.2	1,140.7	41.55	28.456		
7,980.0	7,895.4	7,372.0	7,335.4	20.6	29.4	54.04	1,007.5	236.7	1,214.8	1,173.7	41.10	29.562		
8,000.0	7,915.4	7,383.6	7,344.1	20.6	29.4	53.71	1,015.1	236.3	1,223.4	1,182.4	41.05	29.806		
8,075.0	7,990.4	7,404.0	7,359.1	20.7	29.5	53.11	1,028.9	235.4	1,257.5	1,216.8	40.64	30.940		
8,100.0	8,015.4	7,404.0	7,359.1	20.7	29.5	53.11	1,028.9	235.4	1,269.5	1,229.0	40.44	31.391		
8,170.0	8,085.4	7,435.0	7,380.8	20.7	29.6	52.17	1,051.0	234.1	1,304.3	1,264.1	40.20	32.444		
8,200.0	8,115.4	7,435.0	7,380.8	20.7	29.6	52.17	1,051.0	234.1	1,319.9	1,279.9	39.97	33.023		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3154.6ft @ 3186.6usft

Offset Depths are relative to Offset Datum

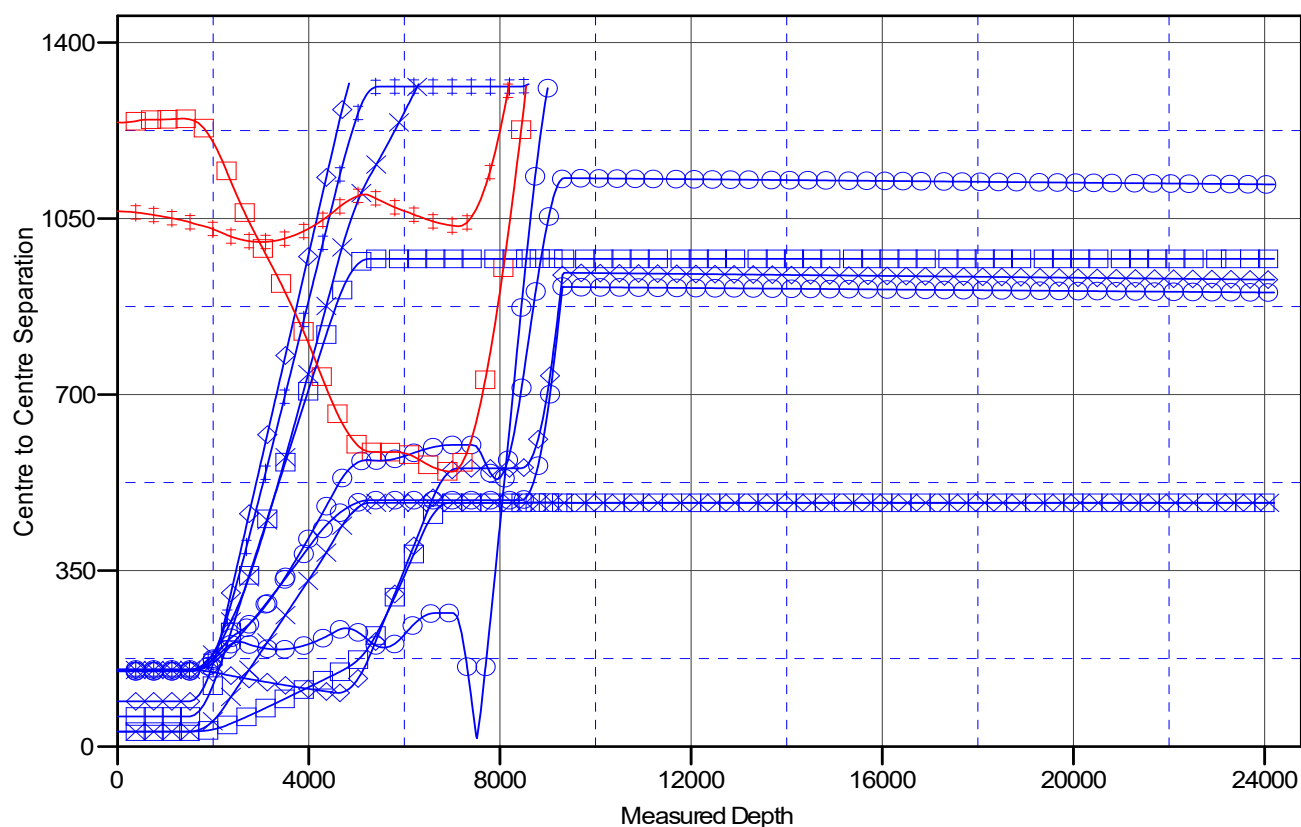
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #709H

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

Grid Convergence at Surface is: 0.07°

Ladder Plot



LEGEND

FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #707H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #805H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #504H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #708H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #806H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #521H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #710H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #5H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #706H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #804H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #6H, OWB, AWP V0

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #709H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3154.6ft @ 3186.6usft

Offset Depths are relative to Offset Datum

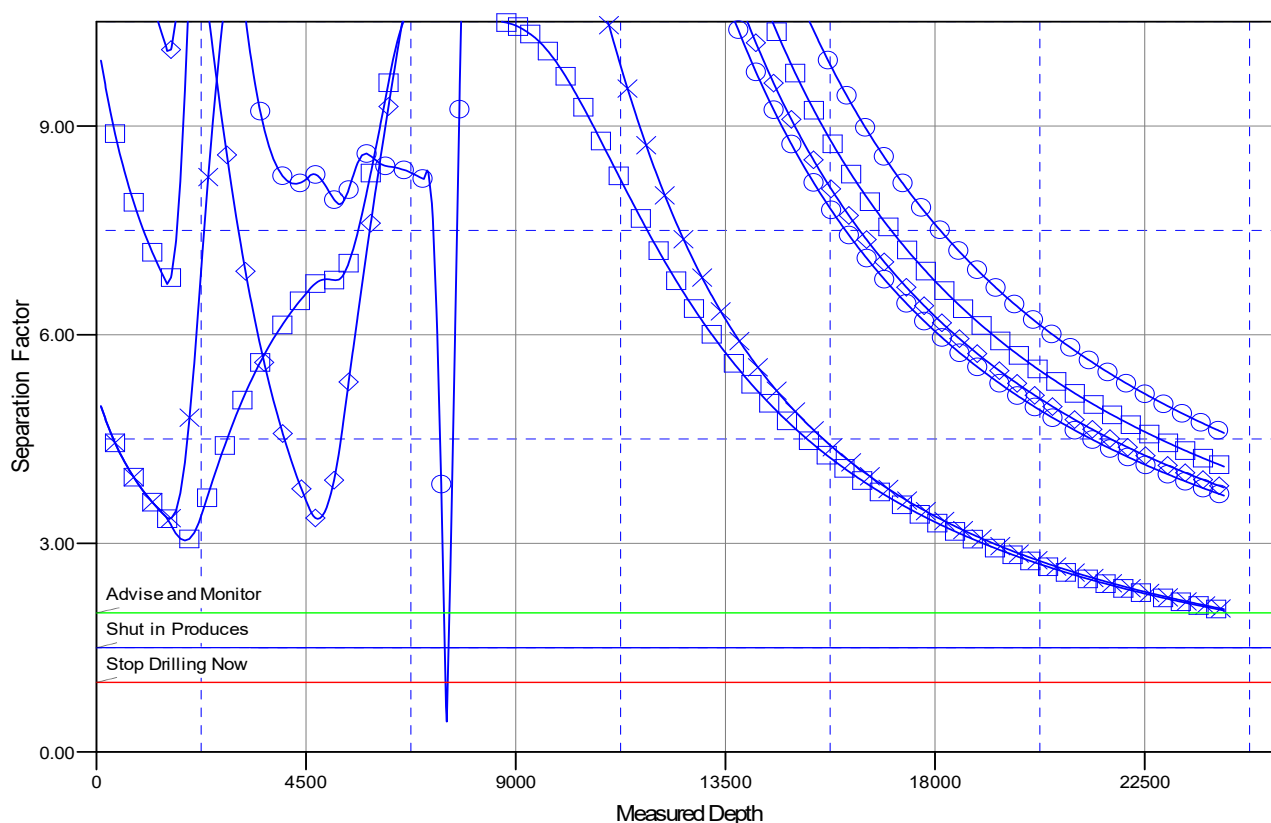
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #709H

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

Grid Convergence at Surface is: 0.07°

Separation Factor Plot



LEGEND

FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #707H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #805H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #504H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #708H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #806H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #521H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #710H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #5H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #606H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #804H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #6H, OWB, AWP V0

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #709H

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 #709H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #709H	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 #709H					
Well Position	+N/-S	-643.7 usft	Northing:	402,378.00 usft	Latitude:	32° 6' 22.250 N
	+E/-W	1,725.6 usft	Easting:	542,037.50 usft	Longitude:	104° 11' 51.250 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,154.6 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,314.27485147

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	182.99

Plan Survey Tool Program	Date	9/23/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	1,500.0 PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp
2	1,500.0	8,447.6 PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	8,447.6	24,202.6 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 #709H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #709H	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	299.17	2,193.1	41.5	-74.3	2.00	2.00	0.00	299.17	
4,578.5	14.00	299.17	4,500.9	322.0	-576.8	0.00	0.00	0.00	0.00	
5,278.6	0.00	0.00	5,194.0	363.5	-651.1	2.00	-2.00	0.00	180.00	
8,447.6	0.00	0.00	8,363.0	363.5	-651.1	0.00	0.00	0.00	0.00	
9,346.7	89.91	180.51	8,936.0	-208.5	-656.2	10.00	10.00	-19.96	180.51	
24,072.6	89.91	180.51	8,959.8	-14,933.8	-786.9	0.00	0.00	0.00	0.00	LTP (FLAMING SNAI
24,202.6	89.91	180.51	8,960.0	-15,063.8	-788.1	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 #709H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #709H	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	299.17	1,600.0	0.9	-1.5	-0.8	2.00	2.00	0.00
1,700.0	4.00	299.17	1,699.8	3.4	-6.1	-3.1	2.00	2.00	0.00
1,800.0	6.00	299.17	1,799.5	7.7	-13.7	-6.9	2.00	2.00	0.00
1,900.0	8.00	299.17	1,898.7	13.6	-24.3	-12.3	2.00	2.00	0.00
2,000.0	10.00	299.17	1,997.5	21.2	-38.0	-19.2	2.00	2.00	0.00
2,100.0	12.00	299.17	2,095.6	30.5	-54.7	-27.6	2.00	2.00	0.00
2,200.1	14.00	299.17	2,193.1	41.5	-74.3	-37.6	2.00	2.00	0.00
Start 2378.4 hold at 2200.1 MD									
2,300.0	14.00	299.17	2,290.1	53.3	-95.4	-48.2	0.00	0.00	0.00
2,400.0	14.00	299.17	2,387.1	65.1	-116.6	-58.9	0.00	0.00	0.00
2,500.0	14.00	299.17	2,484.1	76.9	-137.7	-69.6	0.00	0.00	0.00
2,600.0	14.00	299.17	2,581.2	88.7	-158.8	-80.2	0.00	0.00	0.00
2,700.0	14.00	299.17	2,678.2	100.5	-179.9	-90.9	0.00	0.00	0.00
2,800.0	14.00	299.17	2,775.2	112.2	-201.1	-101.6	0.00	0.00	0.00
2,900.0	14.00	299.17	2,872.3	124.0	-222.2	-112.3	0.00	0.00	0.00
3,000.0	14.00	299.17	2,969.3	135.8	-243.3	-122.9	0.00	0.00	0.00
3,100.0	14.00	299.17	3,066.3	147.6	-264.4	-133.6	0.00	0.00	0.00
3,200.0	14.00	299.17	3,163.3	159.4	-285.6	-144.3	0.00	0.00	0.00
3,300.0	14.00	299.17	3,260.4	171.2	-306.7	-155.0	0.00	0.00	0.00
3,400.0	14.00	299.17	3,357.4	183.0	-327.8	-165.6	0.00	0.00	0.00
3,500.0	14.00	299.17	3,454.4	194.8	-348.9	-176.3	0.00	0.00	0.00
3,600.0	14.00	299.17	3,551.5	206.6	-370.1	-187.0	0.00	0.00	0.00
3,700.0	14.00	299.17	3,648.5	218.4	-391.2	-197.7	0.00	0.00	0.00
3,800.0	14.00	299.17	3,745.5	230.2	-412.3	-208.3	0.00	0.00	0.00
3,900.0	14.00	299.17	3,842.5	242.0	-433.4	-219.0	0.00	0.00	0.00
4,000.0	14.00	299.17	3,939.6	253.8	-454.6	-229.7	0.00	0.00	0.00
4,100.0	14.00	299.17	4,036.6	265.6	-475.7	-240.4	0.00	0.00	0.00
4,200.0	14.00	299.17	4,133.6	277.4	-496.8	-251.0	0.00	0.00	0.00
4,300.0	14.00	299.17	4,230.7	289.2	-517.9	-261.7	0.00	0.00	0.00
4,400.0	14.00	299.17	4,327.7	301.0	-539.1	-272.4	0.00	0.00	0.00
4,500.0	14.00	299.17	4,424.7	312.8	-560.2	-283.1	0.00	0.00	0.00
4,578.5	14.00	299.17	4,500.9	322.0	-576.8	-291.4	0.00	0.00	0.00
Start Drop -2.00									
4,600.0	13.57	299.17	4,521.8	324.5	-581.3	-293.7	2.00	-2.00	0.00
4,700.0	11.57	299.17	4,619.4	335.1	-600.3	-303.3	2.00	-2.00	0.00
4,800.0	9.57	299.17	4,717.7	344.1	-616.3	-311.4	2.00	-2.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #709H	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	7.57	299.17	4,816.5	351.3	-629.3	-318.0	2.00	-2.00	0.00
5,000.0	5.57	299.17	4,915.9	356.9	-639.3	-323.0	2.00	-2.00	0.00
5,100.0	3.57	299.17	5,015.6	360.8	-646.2	-326.5	2.00	-2.00	0.00
5,200.0	1.57	299.17	5,115.4	363.0	-650.2	-328.5	2.00	-2.00	0.00
5,278.6	0.00	0.00	5,194.0	363.5	-651.1	-329.0	2.00	-2.00	0.00
Start 3169.0 hold at 5278.6 MD									
5,300.0	0.00	0.00	5,215.4	363.5	-651.1	-329.0	0.00	0.00	0.00
5,400.0	0.00	0.00	5,315.4	363.5	-651.1	-329.0	0.00	0.00	0.00
5,500.0	0.00	0.00	5,415.4	363.5	-651.1	-329.0	0.00	0.00	0.00
5,600.0	0.00	0.00	5,515.4	363.5	-651.1	-329.0	0.00	0.00	0.00
5,700.0	0.00	0.00	5,615.4	363.5	-651.1	-329.0	0.00	0.00	0.00
5,800.0	0.00	0.00	5,715.4	363.5	-651.1	-329.0	0.00	0.00	0.00
5,900.0	0.00	0.00	5,815.4	363.5	-651.1	-329.0	0.00	0.00	0.00
6,000.0	0.00	0.00	5,915.4	363.5	-651.1	-329.0	0.00	0.00	0.00
6,100.0	0.00	0.00	6,015.4	363.5	-651.1	-329.0	0.00	0.00	0.00
6,200.0	0.00	0.00	6,115.4	363.5	-651.1	-329.0	0.00	0.00	0.00
6,300.0	0.00	0.00	6,215.4	363.5	-651.1	-329.0	0.00	0.00	0.00
6,400.0	0.00	0.00	6,315.4	363.5	-651.1	-329.0	0.00	0.00	0.00
6,500.0	0.00	0.00	6,415.4	363.5	-651.1	-329.0	0.00	0.00	0.00
6,600.0	0.00	0.00	6,515.4	363.5	-651.1	-329.0	0.00	0.00	0.00
6,700.0	0.00	0.00	6,615.4	363.5	-651.1	-329.0	0.00	0.00	0.00
6,800.0	0.00	0.00	6,715.4	363.5	-651.1	-329.0	0.00	0.00	0.00
6,900.0	0.00	0.00	6,815.4	363.5	-651.1	-329.0	0.00	0.00	0.00
7,000.0	0.00	0.00	6,915.4	363.5	-651.1	-329.0	0.00	0.00	0.00
7,100.0	0.00	0.00	7,015.4	363.5	-651.1	-329.0	0.00	0.00	0.00
7,200.0	0.00	0.00	7,115.4	363.5	-651.1	-329.0	0.00	0.00	0.00
7,300.0	0.00	0.00	7,215.4	363.5	-651.1	-329.0	0.00	0.00	0.00
7,400.0	0.00	0.00	7,315.4	363.5	-651.1	-329.0	0.00	0.00	0.00
7,500.0	0.00	0.00	7,415.4	363.5	-651.1	-329.0	0.00	0.00	0.00
7,600.0	0.00	0.00	7,515.4	363.5	-651.1	-329.0	0.00	0.00	0.00
7,700.0	0.00	0.00	7,615.4	363.5	-651.1	-329.0	0.00	0.00	0.00
7,800.0	0.00	0.00	7,715.4	363.5	-651.1	-329.0	0.00	0.00	0.00
7,900.0	0.00	0.00	7,815.4	363.5	-651.1	-329.0	0.00	0.00	0.00
8,000.0	0.00	0.00	7,915.4	363.5	-651.1	-329.0	0.00	0.00	0.00
8,100.0	0.00	0.00	8,015.4	363.5	-651.1	-329.0	0.00	0.00	0.00
8,200.0	0.00	0.00	8,115.4	363.5	-651.1	-329.0	0.00	0.00	0.00
8,300.0	0.00	0.00	8,215.4	363.5	-651.1	-329.0	0.00	0.00	0.00
8,400.0	0.00	0.00	8,315.4	363.5	-651.1	-329.0	0.00	0.00	0.00
8,447.6	0.00	0.00	8,363.0	363.5	-651.1	-329.0	0.00	0.00	0.00
Start DLS 10.00 TFO 180.51									
8,450.0	0.24	180.51	8,365.4	363.5	-651.1	-329.0	10.00	10.00	0.00
8,500.0	5.24	180.51	8,415.4	361.1	-651.1	-326.6	10.00	10.00	0.00
8,550.0	10.24	180.51	8,464.9	354.4	-651.2	-319.9	10.00	10.00	0.00
8,600.0	15.24	180.51	8,513.6	343.4	-651.3	-308.9	10.00	10.00	0.00
8,650.0	20.24	180.51	8,561.3	328.1	-651.4	-293.6	10.00	10.00	0.00
8,700.0	25.24	180.51	8,607.4	308.8	-651.6	-274.3	10.00	10.00	0.00
8,750.0	30.24	180.51	8,651.6	285.5	-651.8	-251.1	10.00	10.00	0.00
8,800.0	35.24	180.51	8,693.6	258.5	-652.0	-224.1	10.00	10.00	0.00
8,850.0	40.24	180.51	8,733.2	227.9	-652.3	-193.5	10.00	10.00	0.00
8,900.0	45.24	180.51	8,769.9	194.0	-652.6	-159.6	10.00	10.00	0.00
8,950.0	50.24	180.51	8,803.5	157.0	-652.9	-122.7	10.00	10.00	0.00
9,000.0	55.24	180.51	8,833.8	117.2	-653.3	-82.9	10.00	10.00	0.00
9,050.0	60.24	180.51	8,860.4	75.0	-653.7	-40.7	10.00	10.00	0.00
9,100.0	65.24	180.51	8,883.3	30.5	-654.1	3.7	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #709H	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)
9,150.0	70.24	180.51	8,902.3	-15.7	-654.5	49.9	10.00	10.00	0.00
9,200.0	75.24	180.51	8,917.1	-63.5	-654.9	97.6	10.00	10.00	0.00
9,250.0	80.24	180.51	8,927.7	-112.3	-655.3	146.4	10.00	10.00	0.00
9,300.0	85.24	180.51	8,934.0	-161.9	-655.8	195.9	10.00	10.00	0.00
9,346.7	89.91	180.51	8,936.0	-208.5	-656.2	242.5	10.00	10.00	0.00
Start 14725.9 hold at 9346.7 MD									
9,400.0	89.91	180.51	8,936.1	-261.8	-656.7	295.8	0.00	0.00	0.00
9,500.0	89.91	180.51	8,936.2	-361.8	-657.5	395.7	0.00	0.00	0.00
9,600.0	89.91	180.51	8,936.4	-461.8	-658.4	495.6	0.00	0.00	0.00
9,700.0	89.91	180.51	8,936.6	-561.8	-659.3	595.5	0.00	0.00	0.00
9,800.0	89.91	180.51	8,936.7	-661.8	-660.2	695.4	0.00	0.00	0.00
9,900.0	89.91	180.51	8,936.9	-761.8	-661.1	795.3	0.00	0.00	0.00
10,000.0	89.91	180.51	8,937.1	-861.8	-662.0	895.2	0.00	0.00	0.00
10,100.0	89.91	180.51	8,937.2	-961.8	-662.9	995.1	0.00	0.00	0.00
10,200.0	89.91	180.51	8,937.4	-1,061.8	-663.8	1,095.0	0.00	0.00	0.00
10,300.0	89.91	180.51	8,937.5	-1,161.8	-664.6	1,194.9	0.00	0.00	0.00
10,400.0	89.91	180.51	8,937.7	-1,261.8	-665.5	1,294.8	0.00	0.00	0.00
10,500.0	89.91	180.51	8,937.9	-1,361.8	-666.4	1,394.7	0.00	0.00	0.00
10,600.0	89.91	180.51	8,938.0	-1,461.8	-667.3	1,494.6	0.00	0.00	0.00
10,700.0	89.91	180.51	8,938.2	-1,561.8	-668.2	1,594.6	0.00	0.00	0.00
10,800.0	89.91	180.51	8,938.3	-1,661.8	-669.1	1,694.5	0.00	0.00	0.00
10,900.0	89.91	180.51	8,938.5	-1,761.8	-670.0	1,794.4	0.00	0.00	0.00
11,000.0	89.91	180.51	8,938.7	-1,861.8	-670.9	1,894.3	0.00	0.00	0.00
11,100.0	89.91	180.51	8,938.8	-1,961.8	-671.7	1,994.2	0.00	0.00	0.00
11,200.0	89.91	180.51	8,939.0	-2,061.8	-672.6	2,094.1	0.00	0.00	0.00
11,300.0	89.91	180.51	8,939.2	-2,161.8	-673.5	2,194.0	0.00	0.00	0.00
11,400.0	89.91	180.51	8,939.3	-2,261.7	-674.4	2,293.9	0.00	0.00	0.00
11,500.0	89.91	180.51	8,939.5	-2,361.7	-675.3	2,393.8	0.00	0.00	0.00
11,600.0	89.91	180.51	8,939.6	-2,461.7	-676.2	2,493.7	0.00	0.00	0.00
11,700.0	89.91	180.51	8,939.8	-2,561.7	-677.1	2,593.6	0.00	0.00	0.00
11,800.0	89.91	180.51	8,940.0	-2,661.7	-678.0	2,693.5	0.00	0.00	0.00
11,900.0	89.91	180.51	8,940.1	-2,761.7	-678.8	2,793.4	0.00	0.00	0.00
12,000.0	89.91	180.51	8,940.3	-2,861.7	-679.7	2,893.3	0.00	0.00	0.00
12,100.0	89.91	180.51	8,940.4	-2,961.7	-680.6	2,993.2	0.00	0.00	0.00
12,200.0	89.91	180.51	8,940.6	-3,061.7	-681.5	3,093.1	0.00	0.00	0.00
12,300.0	89.91	180.51	8,940.8	-3,161.7	-682.4	3,193.0	0.00	0.00	0.00
12,400.0	89.91	180.51	8,940.9	-3,261.7	-683.3	3,292.9	0.00	0.00	0.00
12,500.0	89.91	180.51	8,941.1	-3,361.7	-684.2	3,392.9	0.00	0.00	0.00
12,600.0	89.91	180.51	8,941.3	-3,461.7	-685.1	3,492.8	0.00	0.00	0.00
12,700.0	89.91	180.51	8,941.4	-3,561.7	-685.9	3,592.7	0.00	0.00	0.00
12,800.0	89.91	180.51	8,941.6	-3,661.7	-686.8	3,692.6	0.00	0.00	0.00
12,900.0	89.91	180.51	8,941.7	-3,761.7	-687.7	3,792.5	0.00	0.00	0.00
13,000.0	89.91	180.51	8,941.9	-3,861.7	-688.6	3,892.4	0.00	0.00	0.00
13,100.0	89.91	180.51	8,942.1	-3,961.7	-689.5	3,992.3	0.00	0.00	0.00
13,200.0	89.91	180.51	8,942.2	-4,061.7	-690.4	4,092.2	0.00	0.00	0.00
13,300.0	89.91	180.51	8,942.4	-4,161.7	-691.3	4,192.1	0.00	0.00	0.00
13,400.0	89.91	180.51	8,942.5	-4,261.7	-692.2	4,292.0	0.00	0.00	0.00
13,500.0	89.91	180.51	8,942.7	-4,361.7	-693.0	4,391.9	0.00	0.00	0.00
13,600.0	89.91	180.51	8,942.9	-4,461.7	-693.9	4,491.8	0.00	0.00	0.00
13,700.0	89.91	180.51	8,943.0	-4,561.7	-694.8	4,591.7	0.00	0.00	0.00
13,800.0	89.91	180.51	8,943.2	-4,661.6	-695.7	4,691.6	0.00	0.00	0.00
13,900.0	89.91	180.51	8,943.4	-4,761.6	-696.6	4,791.5	0.00	0.00	0.00
14,000.0	89.91	180.51	8,943.5	-4,861.6	-697.5	4,891.4	0.00	0.00	0.00
14,100.0	89.91	180.51	8,943.7	-4,961.6	-698.4	4,991.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #709H	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	89.91	180.51	8,943.8	-5,061.6	-699.3	5,091.3	0.00	0.00	0.00
14,300.0	89.91	180.51	8,944.0	-5,161.6	-700.1	5,191.2	0.00	0.00	0.00
14,400.0	89.91	180.51	8,944.2	-5,261.6	-701.0	5,291.1	0.00	0.00	0.00
14,500.0	89.91	180.51	8,944.3	-5,361.6	-701.9	5,391.0	0.00	0.00	0.00
14,600.0	89.91	180.51	8,944.5	-5,461.6	-702.8	5,490.9	0.00	0.00	0.00
14,700.0	89.91	180.51	8,944.6	-5,561.6	-703.7	5,590.8	0.00	0.00	0.00
14,800.0	89.91	180.51	8,944.8	-5,661.6	-704.6	5,690.7	0.00	0.00	0.00
14,900.0	89.91	180.51	8,945.0	-5,761.6	-705.5	5,790.6	0.00	0.00	0.00
15,000.0	89.91	180.51	8,945.1	-5,861.6	-706.4	5,890.5	0.00	0.00	0.00
15,100.0	89.91	180.51	8,945.3	-5,961.6	-707.3	5,990.4	0.00	0.00	0.00
15,200.0	89.91	180.51	8,945.5	-6,061.6	-708.1	6,090.3	0.00	0.00	0.00
15,300.0	89.91	180.51	8,945.6	-6,161.6	-709.0	6,190.2	0.00	0.00	0.00
15,400.0	89.91	180.51	8,945.8	-6,261.6	-709.9	6,290.1	0.00	0.00	0.00
15,500.0	89.91	180.51	8,945.9	-6,361.6	-710.8	6,390.0	0.00	0.00	0.00
15,600.0	89.91	180.51	8,946.1	-6,461.6	-711.7	6,489.9	0.00	0.00	0.00
15,700.0	89.91	180.51	8,946.3	-6,561.6	-712.6	6,589.8	0.00	0.00	0.00
15,800.0	89.91	180.51	8,946.4	-6,661.6	-713.5	6,689.7	0.00	0.00	0.00
15,900.0	89.91	180.51	8,946.6	-6,761.6	-714.4	6,789.7	0.00	0.00	0.00
16,000.0	89.91	180.51	8,946.7	-6,861.6	-715.2	6,889.6	0.00	0.00	0.00
16,100.0	89.91	180.51	8,946.9	-6,961.6	-716.1	6,989.5	0.00	0.00	0.00
16,200.0	89.91	180.51	8,947.1	-7,061.6	-717.0	7,089.4	0.00	0.00	0.00
16,300.0	89.91	180.51	8,947.2	-7,161.5	-717.9	7,189.3	0.00	0.00	0.00
16,400.0	89.91	180.51	8,947.4	-7,261.5	-718.8	7,289.2	0.00	0.00	0.00
16,500.0	89.91	180.51	8,947.6	-7,361.5	-719.7	7,389.1	0.00	0.00	0.00
16,600.0	89.91	180.51	8,947.7	-7,461.5	-720.6	7,489.0	0.00	0.00	0.00
16,700.0	89.91	180.51	8,947.9	-7,561.5	-721.5	7,588.9	0.00	0.00	0.00
16,800.0	89.91	180.51	8,948.0	-7,661.5	-722.3	7,688.8	0.00	0.00	0.00
16,900.0	89.91	180.51	8,948.2	-7,761.5	-723.2	7,788.7	0.00	0.00	0.00
17,000.0	89.91	180.51	8,948.4	-7,861.5	-724.1	7,888.6	0.00	0.00	0.00
17,100.0	89.91	180.51	8,948.5	-7,961.5	-725.0	7,988.5	0.00	0.00	0.00
17,200.0	89.91	180.51	8,948.7	-8,061.5	-725.9	8,088.4	0.00	0.00	0.00
17,300.0	89.91	180.51	8,948.8	-8,161.5	-726.8	8,188.3	0.00	0.00	0.00
17,400.0	89.91	180.51	8,949.0	-8,261.5	-727.7	8,288.2	0.00	0.00	0.00
17,500.0	89.91	180.51	8,949.2	-8,361.5	-728.6	8,388.1	0.00	0.00	0.00
17,600.0	89.91	180.51	8,949.3	-8,461.5	-729.4	8,488.0	0.00	0.00	0.00
17,700.0	89.91	180.51	8,949.5	-8,561.5	-730.3	8,588.0	0.00	0.00	0.00
17,800.0	89.91	180.51	8,949.7	-8,661.5	-731.2	8,687.9	0.00	0.00	0.00
17,900.0	89.91	180.51	8,949.8	-8,761.5	-732.1	8,787.8	0.00	0.00	0.00
18,000.0	89.91	180.51	8,950.0	-8,861.5	-733.0	8,887.7	0.00	0.00	0.00
18,100.0	89.91	180.51	8,950.1	-8,961.5	-733.9	8,987.6	0.00	0.00	0.00
18,200.0	89.91	180.51	8,950.3	-9,061.5	-734.8	9,087.5	0.00	0.00	0.00
18,300.0	89.91	180.51	8,950.5	-9,161.5	-735.7	9,187.4	0.00	0.00	0.00
18,400.0	89.91	180.51	8,950.6	-9,261.5	-736.5	9,287.3	0.00	0.00	0.00
18,500.0	89.91	180.51	8,950.8	-9,361.5	-737.4	9,387.2	0.00	0.00	0.00
18,600.0	89.91	180.51	8,950.9	-9,461.5	-738.3	9,487.1	0.00	0.00	0.00
18,700.0	89.91	180.51	8,951.1	-9,561.4	-739.2	9,587.0	0.00	0.00	0.00
18,800.0	89.91	180.51	8,951.3	-9,661.4	-740.1	9,686.9	0.00	0.00	0.00
18,900.0	89.91	180.51	8,951.4	-9,761.4	-741.0	9,786.8	0.00	0.00	0.00
19,000.0	89.91	180.51	8,951.6	-9,861.4	-741.9	9,886.7	0.00	0.00	0.00
19,100.0	89.91	180.51	8,951.8	-9,961.4	-742.8	9,986.6	0.00	0.00	0.00
19,200.0	89.91	180.51	8,951.9	-10,061.4	-743.6	10,086.5	0.00	0.00	0.00
19,300.0	89.91	180.51	8,952.1	-10,161.4	-744.5	10,186.4	0.00	0.00	0.00
19,400.0	89.91	180.51	8,952.2	-10,261.4	-745.4	10,286.4	0.00	0.00	0.00
19,500.0	89.91	180.51	8,952.4	-10,361.4	-746.3	10,386.3	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #709H	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	89.91	180.51	8,952.6	-10,461.4	-747.2	10,486.2	0.00	0.00	0.00
19,700.0	89.91	180.51	8,952.7	-10,561.4	-748.1	10,586.1	0.00	0.00	0.00
19,800.0	89.91	180.51	8,952.9	-10,661.4	-749.0	10,686.0	0.00	0.00	0.00
19,900.0	89.91	180.51	8,953.0	-10,761.4	-749.9	10,785.9	0.00	0.00	0.00
20,000.0	89.91	180.51	8,953.2	-10,861.4	-750.7	10,885.8	0.00	0.00	0.00
20,100.0	89.91	180.51	8,953.4	-10,961.4	-751.6	10,985.7	0.00	0.00	0.00
20,200.0	89.91	180.51	8,953.5	-11,061.4	-752.5	11,085.6	0.00	0.00	0.00
20,300.0	89.91	180.51	8,953.7	-11,161.4	-753.4	11,185.5	0.00	0.00	0.00
20,400.0	89.91	180.51	8,953.9	-11,261.4	-754.3	11,285.4	0.00	0.00	0.00
20,500.0	89.91	180.51	8,954.0	-11,361.4	-755.2	11,385.3	0.00	0.00	0.00
20,600.0	89.91	180.51	8,954.2	-11,461.4	-756.1	11,485.2	0.00	0.00	0.00
20,700.0	89.91	180.51	8,954.3	-11,561.4	-757.0	11,585.1	0.00	0.00	0.00
20,800.0	89.91	180.51	8,954.5	-11,661.4	-757.8	11,685.0	0.00	0.00	0.00
20,900.0	89.91	180.51	8,954.7	-11,761.4	-758.7	11,784.9	0.00	0.00	0.00
21,000.0	89.91	180.51	8,954.8	-11,861.4	-759.6	11,884.8	0.00	0.00	0.00
21,100.0	89.91	180.51	8,955.0	-11,961.4	-760.5	11,984.7	0.00	0.00	0.00
21,200.0	89.91	180.51	8,955.1	-12,061.3	-761.4	12,084.7	0.00	0.00	0.00
21,300.0	89.91	180.51	8,955.3	-12,161.3	-762.3	12,184.6	0.00	0.00	0.00
21,400.0	89.91	180.51	8,955.5	-12,261.3	-763.2	12,284.5	0.00	0.00	0.00
21,500.0	89.91	180.51	8,955.6	-12,361.3	-764.1	12,384.4	0.00	0.00	0.00
21,600.0	89.91	180.51	8,955.8	-12,461.3	-765.0	12,484.3	0.00	0.00	0.00
21,700.0	89.91	180.51	8,956.0	-12,561.3	-765.8	12,584.2	0.00	0.00	0.00
21,800.0	89.91	180.51	8,956.1	-12,661.3	-766.7	12,684.1	0.00	0.00	0.00
21,900.0	89.91	180.51	8,956.3	-12,761.3	-767.6	12,784.0	0.00	0.00	0.00
22,000.0	89.91	180.51	8,956.4	-12,861.3	-768.5	12,883.9	0.00	0.00	0.00
22,100.0	89.91	180.51	8,956.6	-12,961.3	-769.4	12,983.8	0.00	0.00	0.00
22,200.0	89.91	180.51	8,956.8	-13,061.3	-770.3	13,083.7	0.00	0.00	0.00
22,300.0	89.91	180.51	8,956.9	-13,161.3	-771.2	13,183.6	0.00	0.00	0.00
22,400.0	89.91	180.51	8,957.1	-13,261.3	-772.1	13,283.5	0.00	0.00	0.00
22,500.0	89.91	180.51	8,957.2	-13,361.3	-772.9	13,383.4	0.00	0.00	0.00
22,600.0	89.91	180.51	8,957.4	-13,461.3	-773.8	13,483.3	0.00	0.00	0.00
22,700.0	89.91	180.51	8,957.6	-13,561.3	-774.7	13,583.2	0.00	0.00	0.00
22,800.0	89.91	180.51	8,957.7	-13,661.3	-775.6	13,683.1	0.00	0.00	0.00
22,900.0	89.91	180.51	8,957.9	-13,761.3	-776.5	13,783.1	0.00	0.00	0.00
23,000.0	89.91	180.51	8,958.1	-13,861.3	-777.4	13,883.0	0.00	0.00	0.00
23,100.0	89.91	180.51	8,958.2	-13,961.3	-778.3	13,982.9	0.00	0.00	0.00
23,200.0	89.91	180.51	8,958.4	-14,061.3	-779.2	14,082.8	0.00	0.00	0.00
23,300.0	89.91	180.51	8,958.5	-14,161.3	-780.0	14,182.7	0.00	0.00	0.00
23,400.0	89.91	180.51	8,958.7	-14,261.3	-780.9	14,282.6	0.00	0.00	0.00
23,500.0	89.91	180.51	8,958.9	-14,361.3	-781.8	14,382.5	0.00	0.00	0.00
23,600.0	89.91	180.51	8,959.0	-14,461.2	-782.7	14,482.4	0.00	0.00	0.00
23,700.0	89.91	180.51	8,959.2	-14,561.2	-783.6	14,582.3	0.00	0.00	0.00
23,800.0	89.91	180.51	8,959.3	-14,661.2	-784.5	14,682.2	0.00	0.00	0.00
23,900.0	89.91	180.51	8,959.5	-14,761.2	-785.4	14,782.1	0.00	0.00	0.00
24,000.0	89.91	180.51	8,959.7	-14,861.2	-786.3	14,882.0	0.00	0.00	0.00
24,072.6	89.91	180.51	8,959.8	-14,933.8	-786.9	14,954.5	0.00	0.00	0.00
Start 130.0 hold at 24072.6 MD									
24,100.0	89.91	180.51	8,959.8	-14,961.2	-787.1	14,981.9	0.00	0.00	0.00
24,202.6	89.91	180.51	8,960.0	-15,063.8	-788.1	15,084.4	0.00	0.00	0.00
TD at 24202.6									

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #709H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3154.6ft @ 3186.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #709H	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 237.3usft at 8900.0usft MD (8769.9 TVD, 194.0 N, -652.6 E) - Circle (radius 50.0)	0.00	0.00	8,936.0	363.5	-651.1	402,741.50	541,386.40	32° 6' 25.855 N	104° 11' 58.815 W
LTP (FLAMING SNAIL F - plan hits target center - Point	0.00	0.00	8,959.8	-14,933.8	-786.9	387,444.20	541,250.60	32° 3' 54.466 N	104° 12' 0.614 W
PBHL (FLAMING SNAIL - plan hits target center - Rectangle (sides W100.0 H15,428.0 D20.0)	0.09	0.51	8,960.0	-15,063.8	-788.1	387,314.20	541,249.40	32° 3' 53.180 N	104° 12' 0.629 W

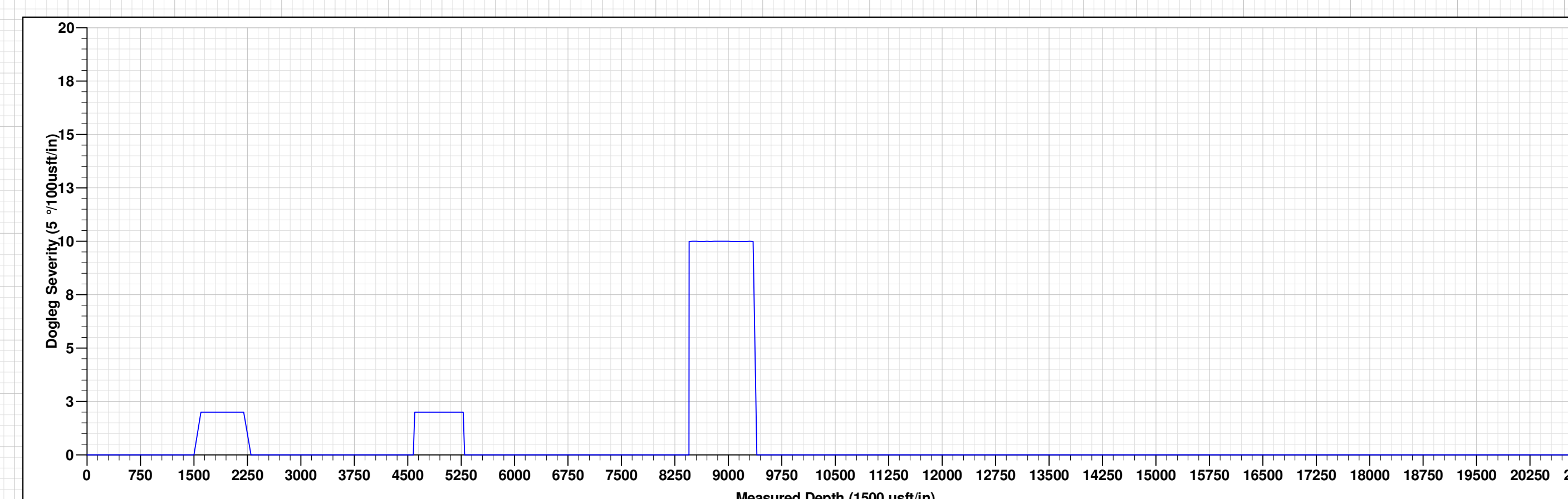
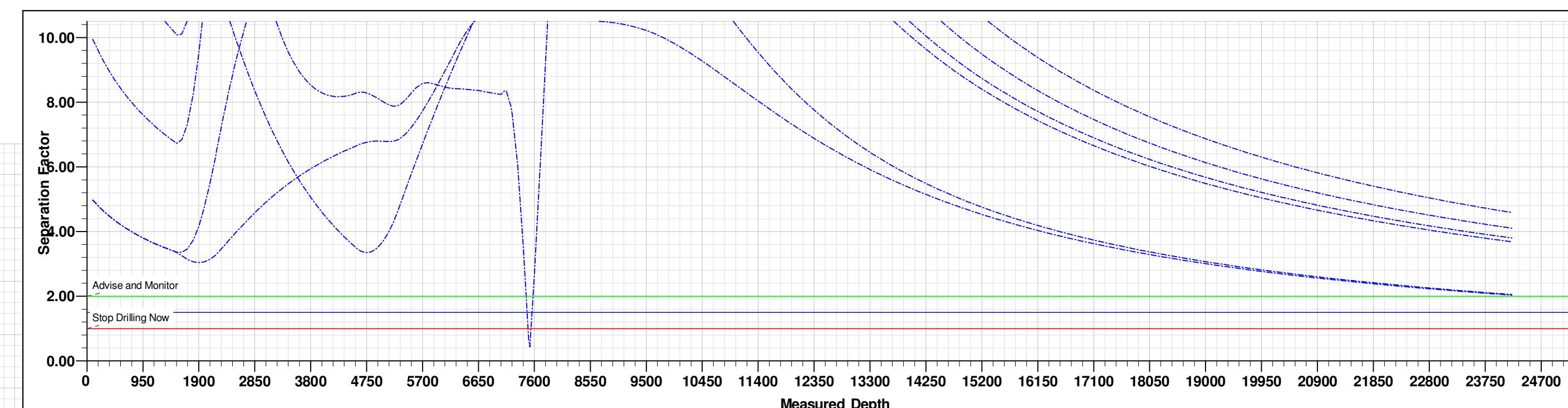
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
2,200.1	2,193.1	41.5	-74.3	Start 2378.4 hold at 2200.1 MD
4,578.5	4,500.9	322.0	-576.8	Start Drop -2.00
5,278.6	5,194.0	363.5	-651.1	Start 3169.0 hold at 5278.6 MD
8,447.6	8,363.0	363.5	-651.1	Start DLS 10.00 TFO 180.51
9,346.7	8,936.0	-208.5	-656.2	Start 14725.9 hold at 9346.7 MD
24,072.6	8,959.8	-14,933.8	-786.9	Start 130.0 hold at 24072.6 MD
24,202.6	8,960.0	-15,063.8	-788.1	TD at 24202.6



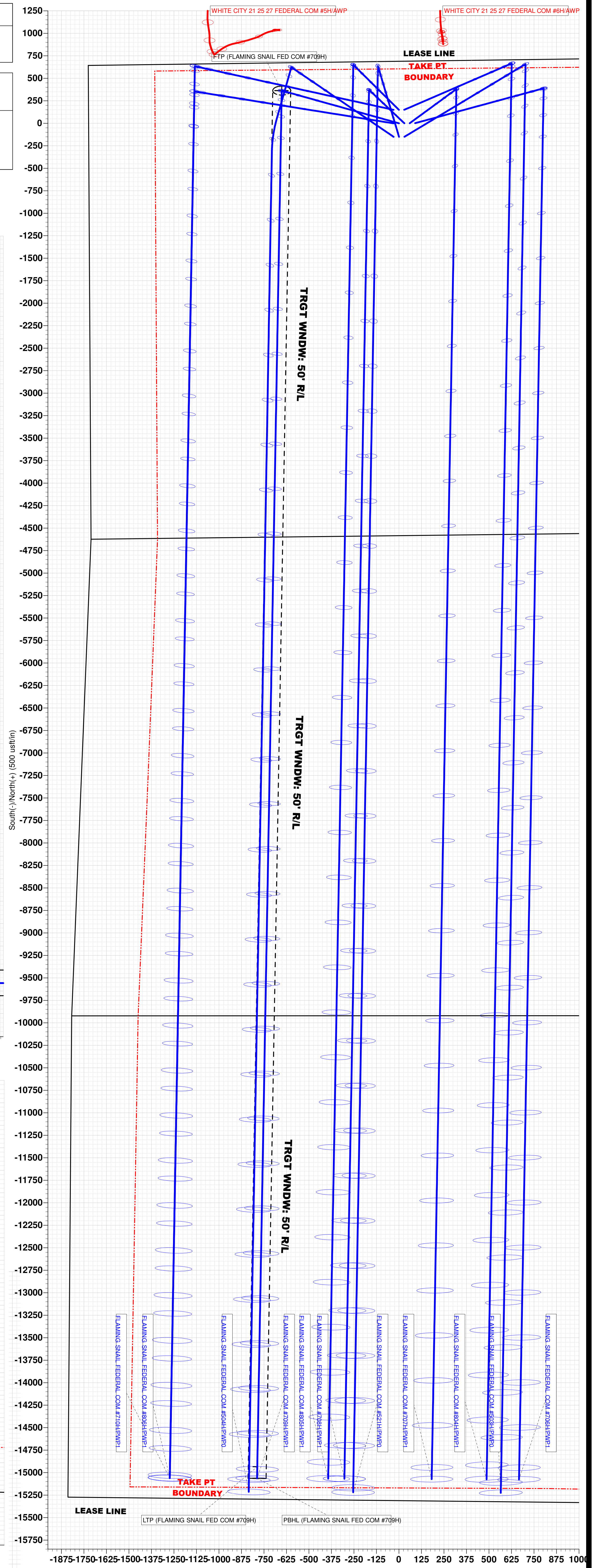
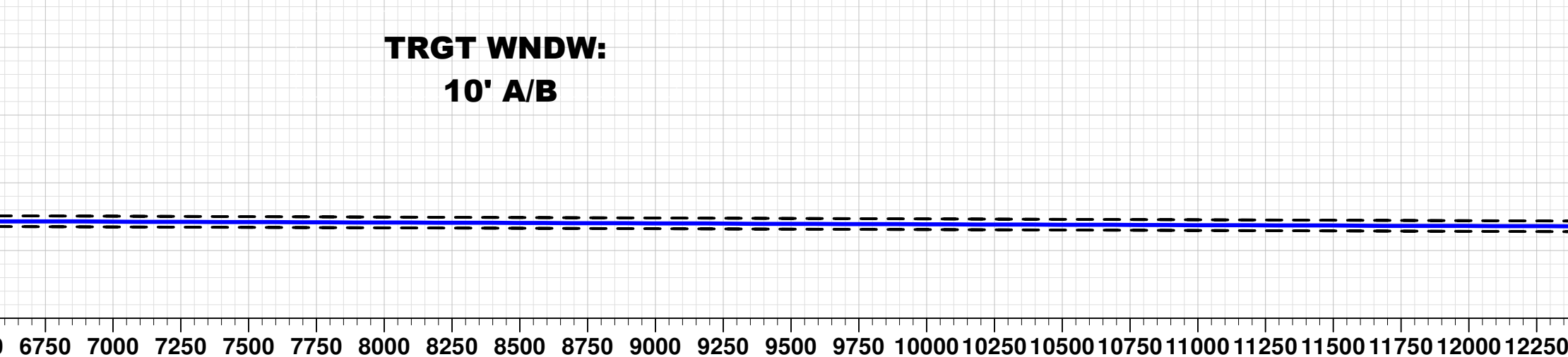
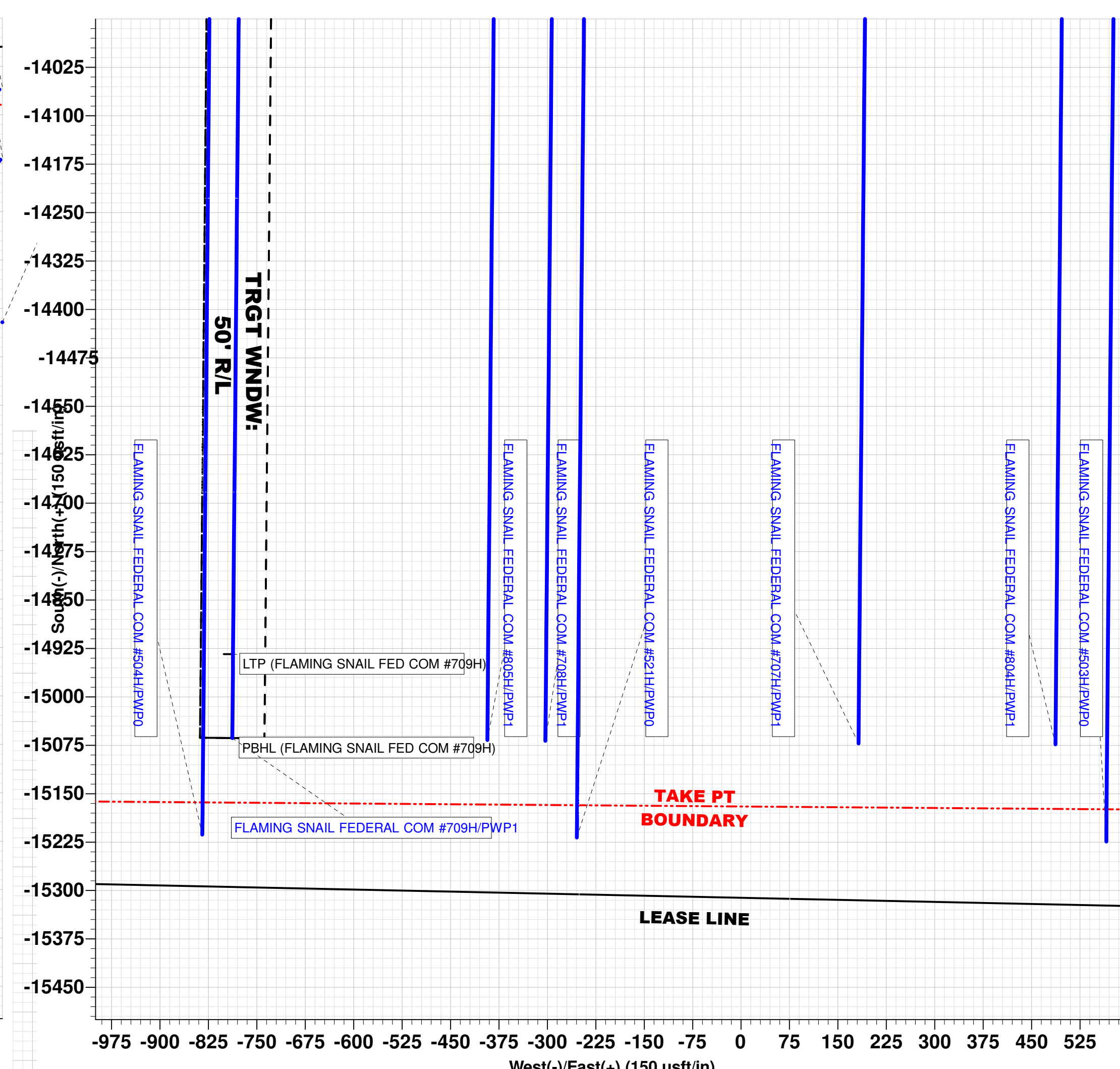
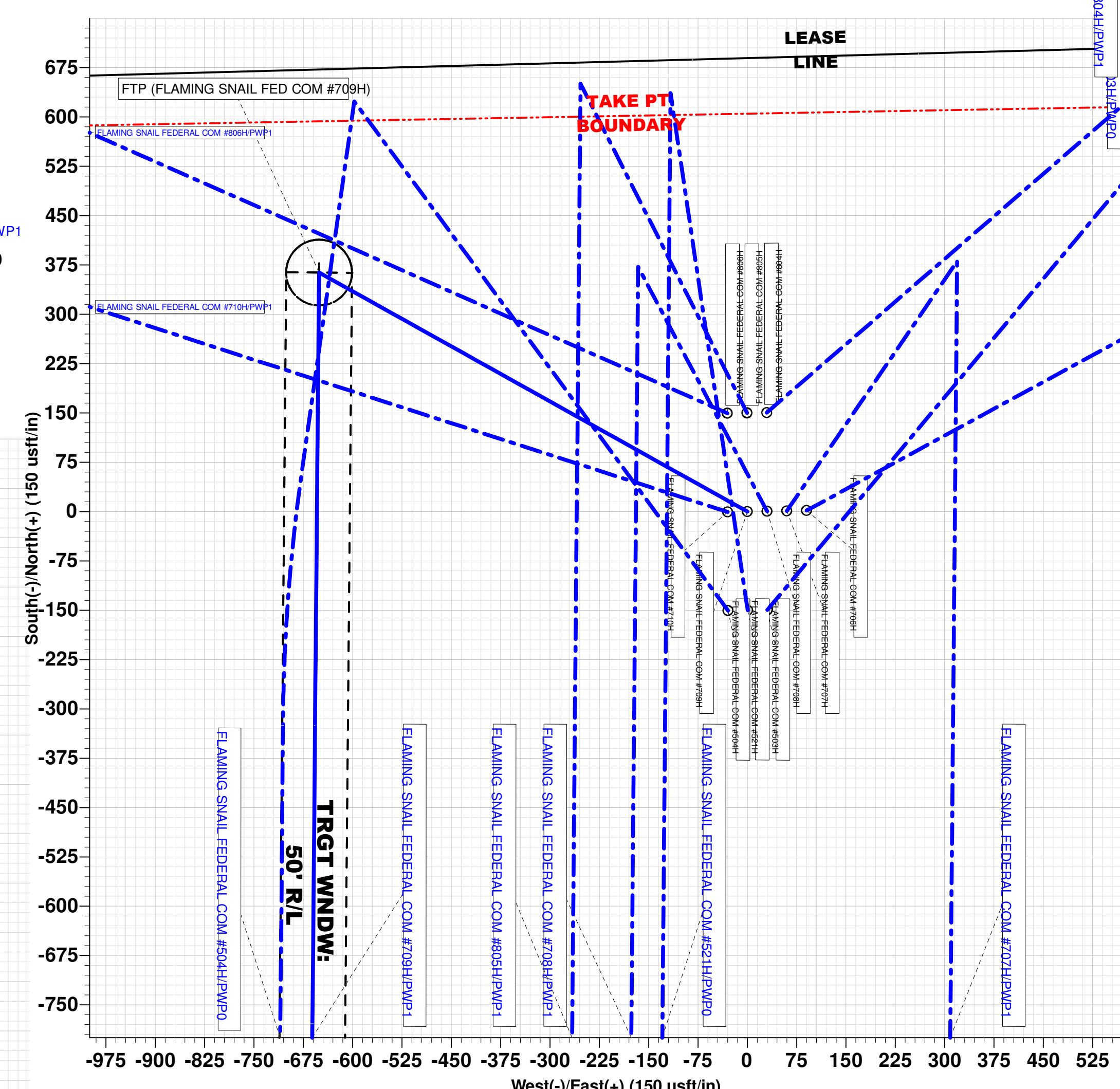
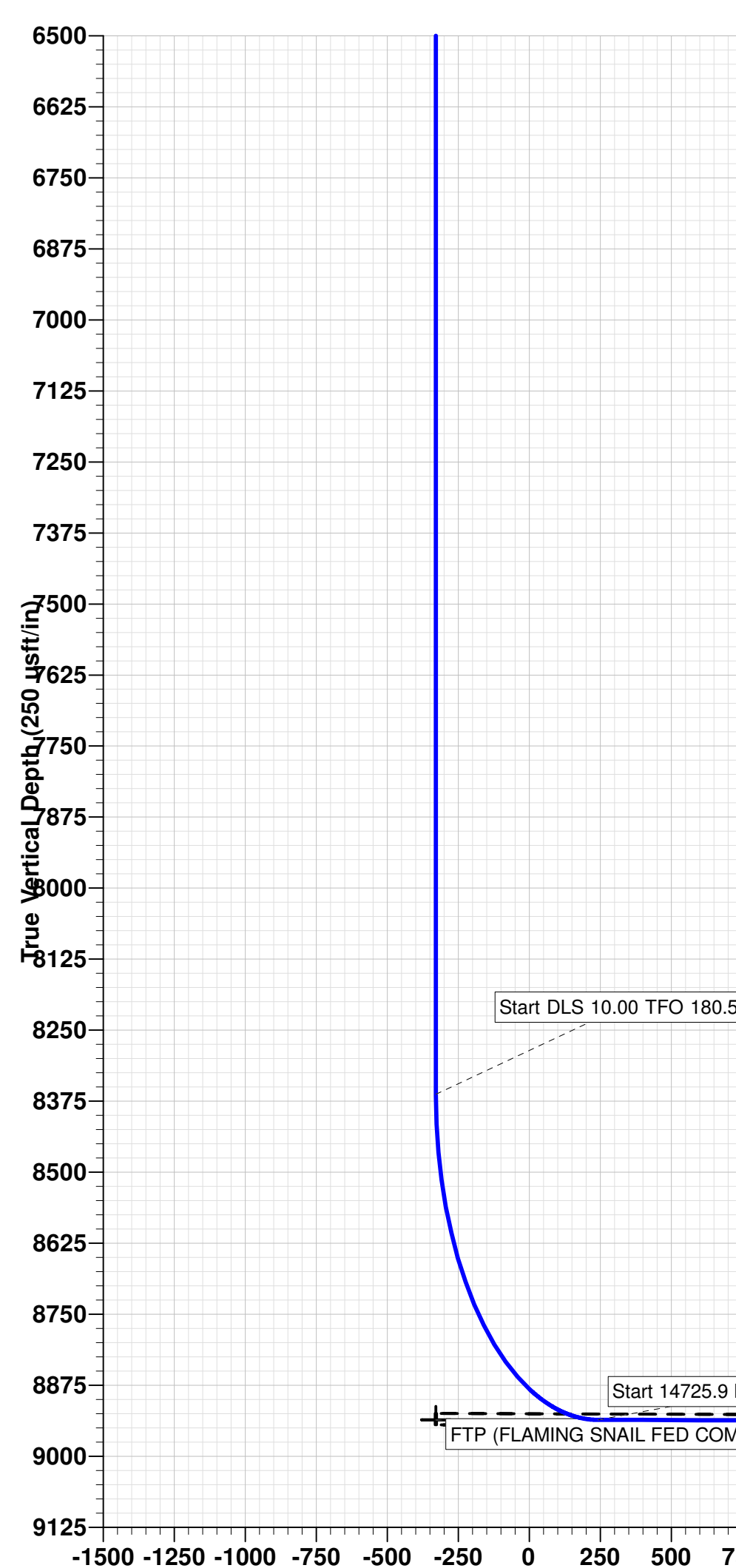
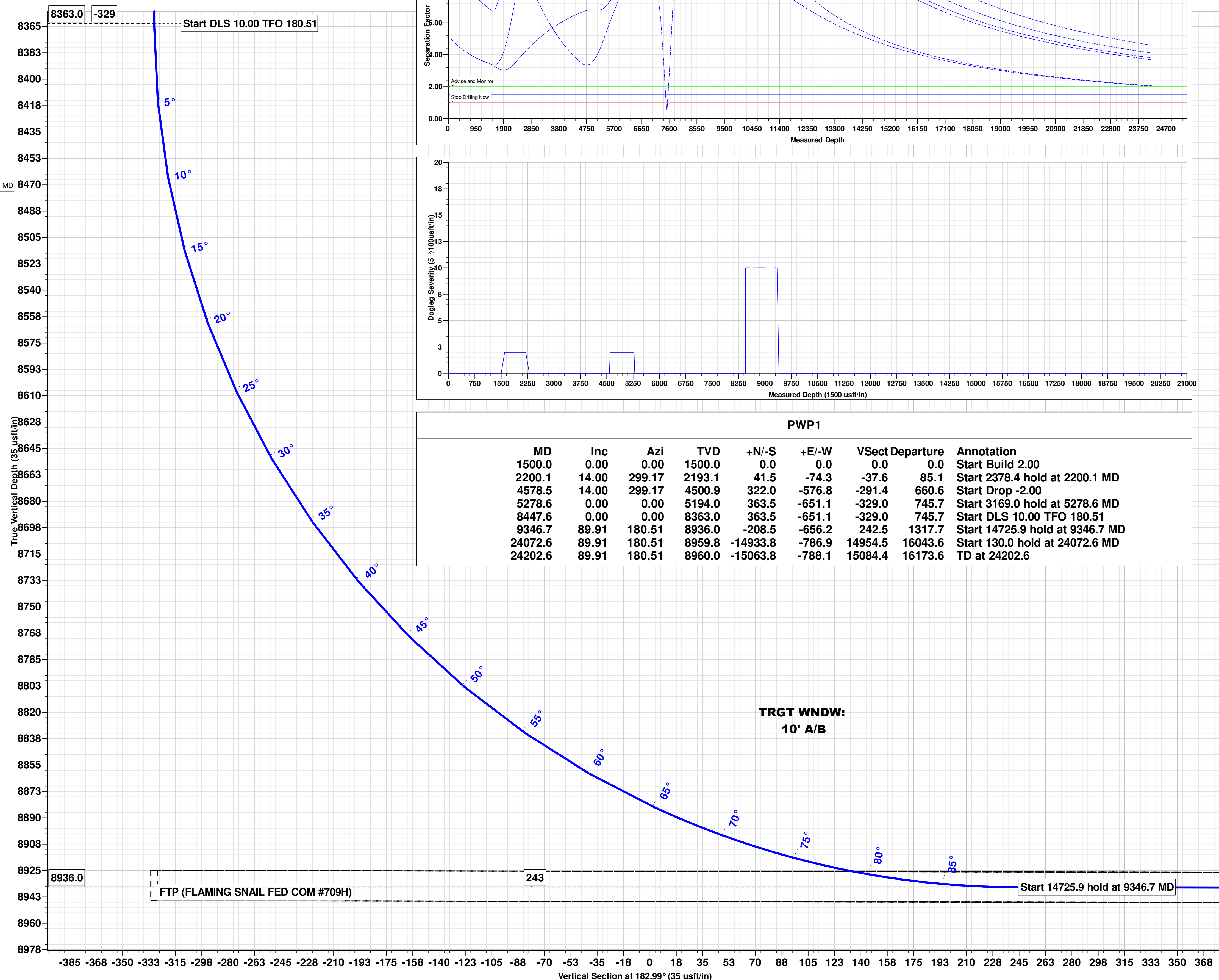
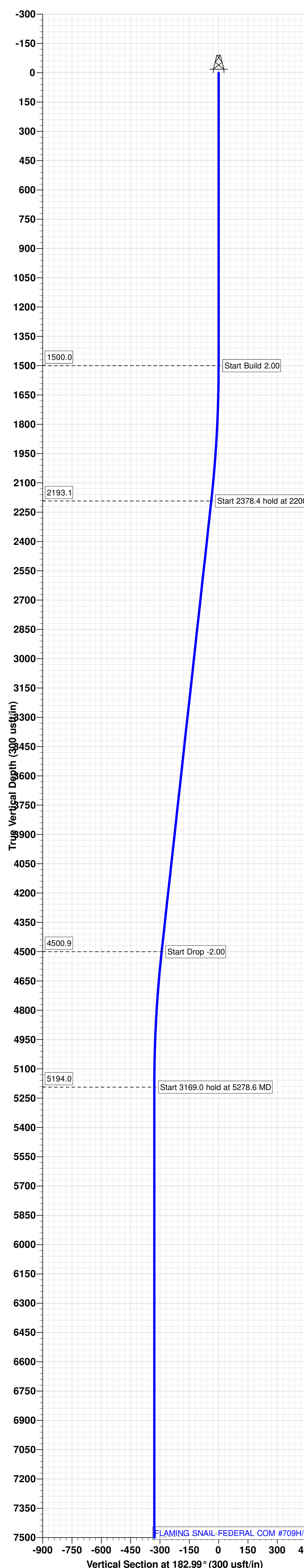
Project: ATLAS PROSPECT (NM-E)
Site: FLAMING SNAIL FED COM PROJECT
Well: FLAMING SNAIL FEDERAL COM #709H
Wellbore: OWB
Design: PWP1
GL: 3154.6
*RKB 32ft + GL 3154.6ft @ 3186.6usft

WELL DETAILS: FLAMING SNAIL FEDERAL COM #709H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402378.00	542037.50	32° 6' 22.250 N	104° 11' 51.250 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (FLAMING SNAIL FED COM #709H)	8936.0	363.5	-651.1	402741.50	541386.40
LTP (FLAMING SNAIL FED COM #709H)	8959.8	-14933.8	-786.9	387444.20	541250.60
PBHL (FLAMING SNAIL FED COM #709H)	8960.0	-15063.8	-788.1	387314.20	541249.40
Shape					
Circle (Radius: 50.0)					
Point					
Rectangle (Sides: L15428.0 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	299.17	2193.1	41.5	-74.3	-37.6	85.1	Start 2378.4 hold at 2200.1 MD	
4578.5	14.00	299.17	4500.9	322.0	-576.8	-291.4	660.6	Start Drop -2.00	
5278.6	0.00	0.00	5194.0	363.5	-651.1	-329.0	745.7	Start 3169.0 hold at 5278.6 MD	
8447.6	0.00	0.00	8363.0	363.5	-651.1	-329.0	745.7	Start DLS 10.00 TFO 180.51	
9346.7	89.91	180.51	8936.0	-208.5	-656.2	242.5	1317.7	Start 14725.9 hold at 9346.7 MD	
24072.6	89.91	180.51	8959.8	-14933.8	-786.9	14954.5	16043.6	Start 130.0 hold at 24072.6 MD	
24202.6	89.91	180.51	8960.0	-15063.8	-788.1	15084.4	16173.6	TD at 24202.6	



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 709H
SURFACE HOLE FOOTAGE:	757'/N & 1619'/W
BOTTOM HOLE FOOTAGE:	200'/S & 1035'/W

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 the BLM before starting 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.
 - 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. 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.

- e. 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 7/31/2023

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 260563

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 260563
	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