

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☐ DRILL ☐ REENTER		5. Lease Serial No.
1b. Type of Well: ☐ Oil Well ☐ Gas Well ☐ Other		6. If Indian, Allottee or Tribe Name
1c. Type of Completion: ☐ Hydraulic Fracturing ☐ Single Zone ☐ Multiple Zone		7. If Unit or CA Agreement, Name and No.
2. Name of Operator		8. Lease Name and Well No.
3a. Address	3b. Phone No. (include area code)	9. API Well No.
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface At proposed prod. zone		10. Field and Pool, or Exploratory
14. Distance in miles and direction from nearest town or post office*		11. Sec., T. R. M. or Blk. and Survey or Area
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)		12. County or Parish
16. No of acres in lease		13. State
17. Spacing Unit dedicated to this well		
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.		
19. Proposed Depth		
20. BLM/BIA Bond No. in file		
21. Elevations (Show whether DF, KDB, RT, GL, etc.)		
22. Approximate date work will start*		
23. Estimated duration		
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. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification. |
| 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). | 6. Such other site specific information and/or plans as may be requested by the BLM. |

25. Signature	Name (Printed/Typed)	Date
Title		
Approved by (Signature)	Name (Printed/Typed)	Date
Title		
Office		

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 01/11/2024

Additional Operator Remarks

Location of Well

0. SHL: NENW / 757 FNL / 1589 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106154 / LONG: -104.198374 (TVD: 0 feet, MD: 0 feet)
PPP: NWNW / 330 FNL / 550 FWL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107281 / LONG: -104.201732 (TVD: 8761 feet, MD: 8946 feet)
PPP: NWNW / 1 FNL / 550 FWL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.093618 / LONG: -104.201894 (TVD: 8932 feet, MD: 13897 feet)
PPP: NWNW / 1 FNL / 550 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079016 / LONG: -104.202067 (TVD: 8942 feet, MD: 19177 feet)
BHL: SWSW / 200 FSL / 550 FWL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064906 / LONG: -104.202234 (TVD: 8952 feet, MD: 24233 feet)

BLM Point of Contact

Name: GAVIN MICKWEE
Title: Land Law Examiner
Phone: (575) 234-5972
Email: gmickwee@blm.gov

CONFIDENTIAL

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

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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code	Property Name FLAMING SNAIL FEDERAL COM	Well Number 710H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3155.0'

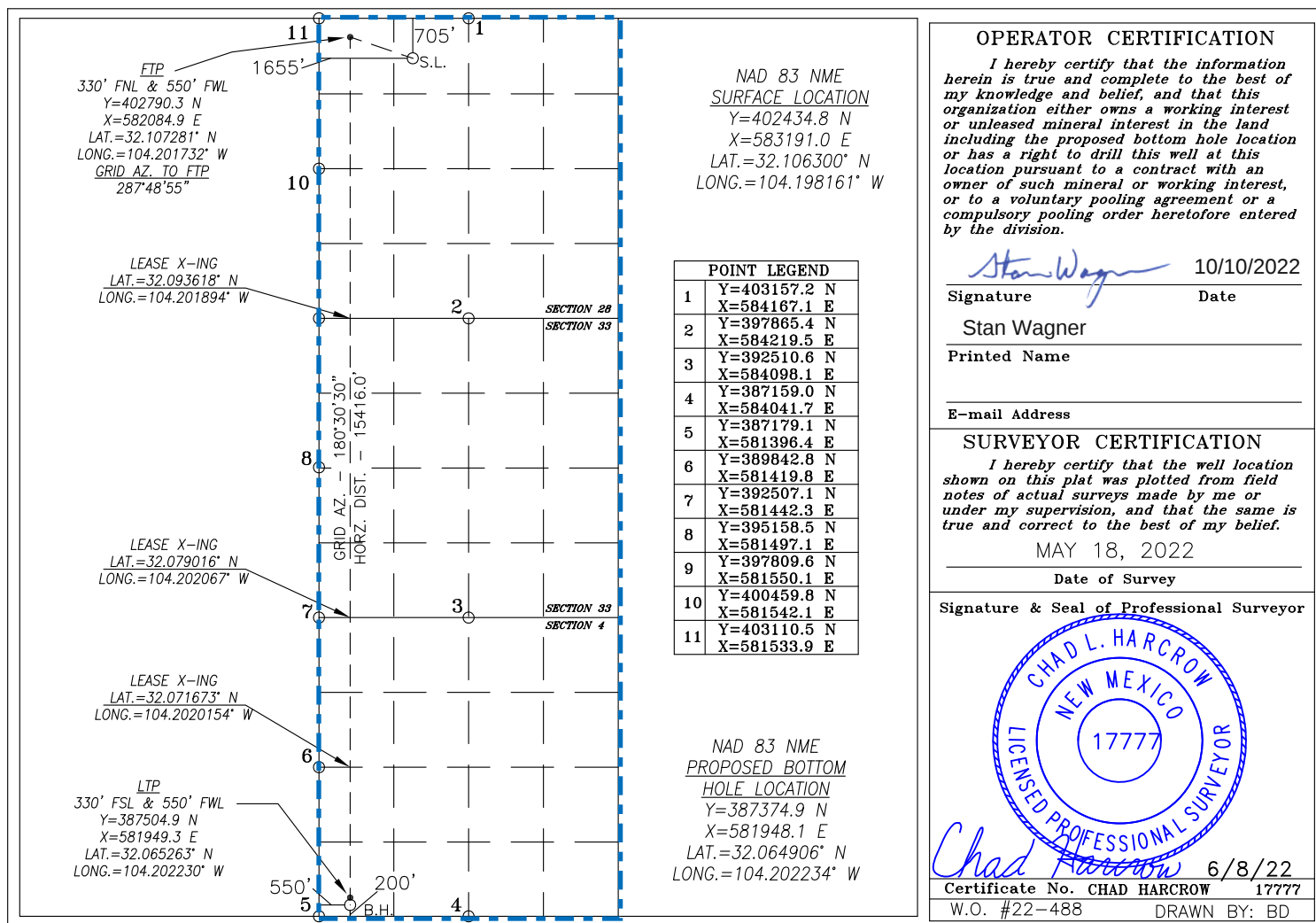
Surface Location

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	1655	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	550	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

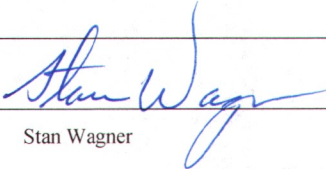
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 710H

1. Geologic Formations

TVD of target	8,952' EOL	Pilot hole depth	NA
MD at TD:	24,229'	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	2140	Salt Water	
Bell Canyon	2208	Salt Water	
Cherry Canyon	2993	Oil/Gas	
Brushy Canyon	4079	Oil/Gas	
Bone Spring Lime	5676	Oil/Gas	
1st Bone Spring Sand	6602	Oil/Gas	
2nd Bone Spring Sand	7131	Oil/Gas	
3rd Bone Spring Sand	8441	Oil/Gas	
Wolfcamp	8770	Oil/Gas	
Wolfcamp A	8854	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	24,229	5.5"	23	P110	W441	2.50	2.95	3.54	3.22
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 710H

	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 710H

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
	1549	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 710H

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 710H

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 710H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5820 psi at 8952' 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

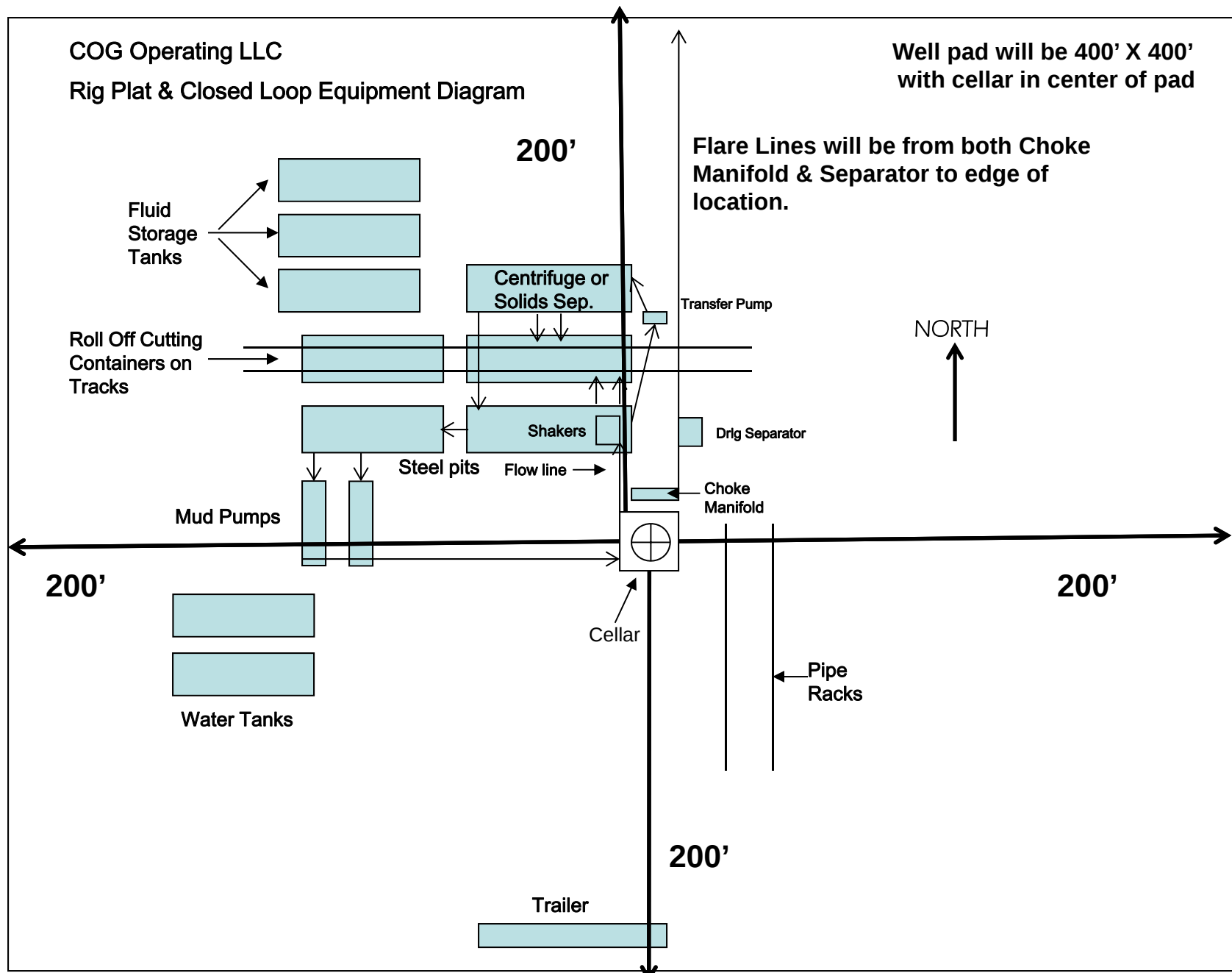


Exhibit 1

"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 #710H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	8,486.6	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
8,486.6	24,229.3	PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
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 #502H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	1,500.0	1,500.3	160.8	152.6	19.667	CC, ES
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	1,710.0	1,710.1	165.9	157.2	19.138	SF
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	1,500.0	1,501.2	150.0	141.7	18.142	CC
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	1,520.0	1,521.2	150.0	141.7	18.068	ES
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	7,600.0	7,721.6	495.6	449.9	10.858	SF
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	1,500.0	1,501.0	152.6	144.3	18.512	CC
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	1,520.0	1,521.0	152.6	144.3	18.435	ES
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	1,710.0	1,710.8	156.5	147.8	17.972	SF
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	1,497.5	120.0	111.1	13.520	CC, ES
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	1,600.0	1,593.9	123.1	113.9	13.351	SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	1,500.0	1,498.2	90.0	81.1	10.139	CC, ES
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	1,520.0	1,517.9	90.1	81.2	10.084	SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	1,500.0	1,498.9	60.0	51.1	6.759	CC
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	1,520.0	1,519.1	60.0	51.1	6.720	ES
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,229.3	24,170.7	970.1	732.4	4.081	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,500.0	1,499.6	30.0	21.1	3.379	CC
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	1,700.0	1,701.4	30.6	20.8	3.144	ES
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	24,229.3	24,202.6	485.1	246.7	2.035	SF
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	1,500.0	1,495.6	162.3	152.9	17.336	CC
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	1,520.0	1,514.9	162.3	152.9	17.250	ES
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	1,700.0	1,685.6	168.6	158.7	16.906	SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,500.0	1,495.5	153.4	144.0	16.291	CC
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	1,520.0	1,514.9	153.4	143.9	16.204	ES
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	24,229.3	25,284.5	1,203.2	960.0	4.948	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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 #806H - OWB - PWP1	1,519.3	1,514.7	150.0	140.5	15.826	CC
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	1,615.0	1,608.4	150.1	140.4	15.481	ES
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	24,229.3	25,330.3	800.3	553.8	3.246	SF
LEONARDO BKL FEDERAL COM #1 - OWB - AWP						Out of range
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	7,048.3	6,907.2	422.4	380.0	9.953	CC, ES
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	7,100.0	6,946.4	423.0	380.4	9.934	SF
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	1,874.4	1,831.4	1,046.4	1,028.8	59.427	CC
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	2,000.0	1,954.4	1,046.6	1,028.5	57.902	ES
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	5,415.0	5,332.8	1,312.1	1,272.8	33.402	SF
POPULUS FEDERAL PROJECT (ATLAS 2527)						
POPULUS FEDERAL #2H - OWB - ACTUAL WELLPATH						Out of range
POPULUS FEDERAL #2H - OWB - Plan #3						Out of range

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
FLAMING SNAIL FED COM PROJECT						
COTTONBERRY 20 FEDERAL COM #4H - OWB - AWP	24,229.3	11,975.0				Out of Range @TD
COTTONWOOD HILLS 32 STATE COM #5H - OWB - AW	24,229.3	7,034.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	24,229.3	23,196.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	24,229.3	23,166.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	24,229.3	23,086.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,229.3	23,585.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	24,229.3	23,473.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,229.3	24,302.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,229.3	24,336.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,229.3	24,278.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,229.3	24,197.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,229.3	24,170.7	970.1	732.4	4.081	SF
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	24,229.3	24,202.6	485.1	246.7	2.035	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,229.3	25,370.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,229.3	25,416.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,229.3	25,359.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	24,229.3	25,284.5	1,203.2	960.0	4.948	SF
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	24,229.3	25,330.3	800.3	553.8	3.246	SF
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	24,229.3	8,900.7				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	24,229.3	6,985.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	24,229.3	7,054.0				Out of Range @TD
POPULUS FEDERAL PROJECT (ATLAS 2527)						
POPULUS FEDERAL #2H - OWB - ACTUAL WELLPATH	24,229.3	12,200.0				Out of Range @TD
POPULUS FEDERAL #2H - OWB - Plan #3	24,229.3	12,231.5				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 Measured Depth (usft)	Offset Measured Depth (usft)	Semi Major Axis Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	Offset Wellbore Centre +E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.3	0.3	3.0	3.0	157.90	-149.0	60.5	160.8			
95.0	95.0	95.3	95.3	3.0	3.0	157.90	-149.0	60.5	160.8	154.8	6.02	26.722
100.0	100.0	100.3	100.3	3.0	3.0	157.90	-149.0	60.5	160.8	154.8	6.02	26.709
190.0	190.0	190.3	190.3	3.1	3.0	157.90	-149.0	60.5	160.8	154.7	6.13	26.222
200.0	200.0	200.3	200.3	3.1	3.0	157.90	-149.0	60.5	160.8	154.7	6.15	26.145
285.0	285.0	285.3	285.3	3.3	3.0	157.90	-149.0	60.5	160.8	154.6	6.26	25.681

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
300.0	300.0	300.3	300.3	3.3	3.0	157.90	-149.0	60.5	160.8	154.5	6.28	25.589	
380.0	380.0	380.3	380.3	3.4	3.0	157.90	-149.0	60.5	160.8	154.4	6.39	25.157	
400.0	400.0	400.3	400.3	3.4	3.0	157.90	-149.0	60.5	160.8	154.4	6.42	25.041	
475.0	475.0	475.3	475.3	3.5	3.0	157.90	-149.0	60.5	160.8	154.3	6.53	24.641	
500.0	500.0	500.3	500.3	3.5	3.1	157.90	-149.0	60.5	160.8	154.3	6.56	24.503	
570.0	570.0	570.3	570.3	3.6	3.1	157.90	-149.0	60.5	160.8	154.2	6.66	24.135	
600.0	600.0	600.3	600.3	3.6	3.1	157.90	-149.0	60.5	160.8	154.1	6.71	23.973	
665.0	665.0	665.3	665.3	3.7	3.1	157.90	-149.0	60.5	160.8	154.0	6.80	23.636	
700.0	700.0	700.3	700.3	3.8	3.1	157.90	-149.0	60.5	160.8	154.0	6.86	23.452	
760.0	760.0	760.3	760.3	3.8	3.1	157.90	-149.0	60.5	160.8	153.9	6.95	23.147	
800.0	800.0	800.3	800.3	3.9	3.2	157.90	-149.0	60.5	160.8	153.8	7.01	22.941	
855.0	855.0	855.3	855.3	4.0	3.2	157.90	-149.0	60.5	160.8	153.7	7.09	22.667	
900.0	900.0	900.3	900.3	4.0	3.2	157.90	-149.0	60.5	160.8	153.6	7.17	22.440	
950.0	950.0	950.3	950.3	4.1	3.2	157.90	-149.0	60.5	160.8	153.6	7.25	22.196	
1,000.0	1,000.0	1,000.3	1,000.3	4.1	3.2	157.90	-149.0	60.5	160.8	153.5	7.33	21.950	
1,045.0	1,045.0	1,045.3	1,045.3	4.2	3.3	157.90	-149.0	60.5	160.8	153.4	7.40	21.735	
1,100.0	1,100.0	1,100.3	1,100.3	4.2	3.3	157.90	-149.0	60.5	160.8	153.3	7.49	21.471	
1,140.0	1,140.0	1,140.3	1,140.3	4.3	3.3	157.90	-149.0	60.5	160.8	153.3	7.56	21.283	
1,200.0	1,200.0	1,200.3	1,200.3	4.4	3.4	157.90	-149.0	60.5	160.8	153.2	7.66	21.002	
1,235.0	1,235.0	1,235.3	1,235.3	4.4	3.4	157.90	-149.0	60.5	160.8	153.1	7.72	20.842	
1,300.0	1,300.0	1,300.3	1,300.3	4.5	3.4	157.90	-149.0	60.5	160.8	153.0	7.83	20.546	
1,330.0	1,330.0	1,330.3	1,330.3	4.5	3.4	157.90	-149.0	60.5	160.8	152.9	7.88	20.412	
1,400.0	1,400.0	1,400.3	1,400.3	4.6	3.5	157.90	-149.0	60.5	160.8	152.8	8.00	20.100	
1,425.0	1,425.0	1,425.3	1,425.3	4.6	3.5	157.90	-149.0	60.5	160.8	152.8	8.04	19.992	
1,500.0	1,500.0	1,500.3	1,500.3	4.7	3.5	157.90	-149.0	60.5	160.8	152.6	8.18	19.667 CC, ES	
1,520.0	1,520.0	1,520.3	1,520.3	4.7	3.6	-129.93	-149.0	60.5	160.9	152.6	8.21	19.584	
1,600.0	1,600.0	1,600.3	1,600.3	4.8	3.6	-130.37	-149.0	60.5	161.9	153.6	8.38	19.330	
1,615.0	1,615.0	1,615.3	1,615.3	4.9	3.6	-130.52	-149.0	60.5	162.3	153.9	8.42	19.285	
1,700.0	1,699.8	1,700.1	1,700.1	5.0	3.7	-131.70	-149.0	60.5	165.4	156.7	8.64	19.141	
1,710.0	1,709.8	1,710.1	1,710.1	5.0	3.7	-131.88	-149.0	60.5	165.9	157.2	8.67	19.138 SF	
1,800.0	1,799.5	1,799.8	1,799.8	5.3	3.8	-133.79	-149.0	60.5	171.3	162.4	8.91	19.222	
1,805.0	1,804.4	1,804.7	1,804.7	5.3	3.8	-133.91	-149.0	60.5	171.7	162.7	8.93	19.233	
1,900.0	1,898.7	1,899.0	1,899.0	5.6	3.9	-136.46	-149.0	60.5	180.0	170.8	9.20	19.560	
1,995.0	1,992.5	1,992.8	1,992.8	5.9	3.9	-139.35	-149.0	60.5	191.0	181.5	9.50	20.110	
2,000.0	1,997.5	1,997.8	1,997.8	5.9	3.9	-139.51	-149.0	60.5	191.7	182.2	9.51	20.145	
2,090.0	2,085.8	2,087.7	2,087.7	6.2	4.1	-142.84	-148.0	61.4	204.6	194.8	9.88	20.718	
2,100.0	2,095.6	2,097.7	2,097.7	6.2	4.1	-143.25	-147.7	61.6	206.2	196.3	9.91	20.802	
2,185.0	2,178.5	2,181.4	2,181.3	6.5	4.4	-147.05	-144.6	64.2	221.0	210.7	10.33	21.395	
2,199.8	2,192.9	2,195.9	2,195.7	6.6	4.4	-147.75	-143.9	64.8	223.8	213.4	10.41	21.513	
2,280.0	2,270.7	2,273.7	2,273.2	6.8	4.6	-151.72	-139.0	68.9	239.9	229.1	10.78	22.260	
2,300.0	2,290.1	2,292.9	2,292.4	6.9	4.7	-152.70	-137.5	70.1	244.0	233.1	10.87	22.447	
2,375.0	2,362.9	2,364.8	2,363.8	7.2	4.9	-156.33	-131.2	75.3	260.1	248.8	11.23	23.156	
2,400.0	2,387.1	2,388.5	2,387.4	7.2	5.0	-157.52	-128.8	77.3	265.6	254.3	11.35	23.397	
2,470.0	2,455.0	2,454.6	2,452.7	7.5	5.2	-160.81	-121.3	83.5	281.8	270.1	11.70	24.079	
2,500.0	2,484.1	2,482.7	2,480.4	7.6	5.3	-162.19	-117.8	86.5	289.0	277.2	11.86	24.380	
2,565.0	2,547.2	2,543.0	2,539.8	7.8	5.5	-165.12	-109.6	93.3	305.4	293.2	12.20	25.042	
2,600.0	2,581.2	2,575.2	2,571.3	7.9	5.7	-166.66	-104.8	97.3	314.6	302.2	12.38	25.411	
2,660.0	2,639.4	2,629.9	2,624.8	8.2	5.9	-169.22	-96.0	104.6	331.0	318.3	12.71	26.052	
2,700.0	2,678.2	2,665.9	2,660.0	8.3	6.0	-170.89	-89.8	109.8	342.5	329.6	12.93	26.495	
2,755.0	2,731.6	2,715.1	2,707.6	8.5	6.2	-173.11	-80.8	117.3	358.9	345.7	13.22	27.153	
2,800.0	2,775.2	2,756.0	2,747.3	8.7	6.3	-174.89	-72.9	123.9	372.8	359.4	13.45	27.721	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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				Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,850.0	2,823.8	2,801.8	2,791.6	8.9	6.4	-176.75	-64.1	131.2	388.7	375.0	13.73	28.320		
2,900.0	2,872.3	2,847.6	2,836.0	9.1	6.6	-178.47	-55.3	138.5	405.0	391.0	14.03	28.869		
2,945.0	2,915.9	2,888.9	2,875.9	9.3	6.7	-179.90	-47.3	145.2	419.9	405.6	14.31	29.350		
3,000.0	2,969.3	2,939.3	2,924.8	9.5	6.9	178.46	-37.6	153.2	438.4	423.8	14.65	29.928		
3,040.0	3,008.1	2,976.0	2,960.3	9.7	7.1	177.36	-30.6	159.1	452.1	437.2	14.90	30.335		
3,100.0	3,066.3	3,031.0	3,013.5	9.9	7.3	175.82	-20.0	167.9	472.9	457.6	15.29	30.931		
3,135.0	3,100.3	3,063.1	3,044.6	10.1	7.4	174.97	-13.8	173.1	485.1	469.6	15.52	31.267		
3,200.0	3,163.4	3,122.7	3,102.3	10.3	7.6	173.52	-2.4	182.6	508.1	492.2	15.94	31.874		
3,230.0	3,192.5	3,150.2	3,128.9	10.5	7.7	172.88	2.9	187.0	518.8	502.7	16.14	32.144		
3,300.0	3,260.4	3,214.3	3,191.0	10.8	8.0	171.51	15.3	197.3	544.0	527.4	16.61	32.755		
3,325.0	3,284.7	3,237.2	3,213.2	10.9	8.1	171.04	19.7	201.0	553.1	536.3	16.78	32.965		
3,400.0	3,357.4	3,306.0	3,279.8	11.2	8.4	169.74	32.9	212.0	580.4	563.2	17.29	33.575		
3,420.0	3,376.8	3,324.3	3,297.5	11.3	8.4	169.41	36.5	214.9	587.8	570.4	17.43	33.732		
3,500.0	3,454.5	3,397.7	3,368.5	11.6	8.7	168.17	50.6	226.7	617.3	599.3	17.98	34.338		
3,515.0	3,469.0	3,411.4	3,381.8	11.7	8.8	167.96	53.2	228.9	622.9	604.8	18.08	34.447		
3,600.0	3,551.5	3,489.3	3,457.3	12.1	9.1	166.78	68.2	241.4	654.5	635.9	18.68	35.046		
3,610.0	3,561.2	3,498.5	3,466.1	12.1	9.2	166.65	70.0	242.9	658.3	639.5	18.75	35.114		
3,700.0	3,648.5	3,581.0	3,546.0	12.5	9.5	165.54	85.9	256.1	692.1	672.7	19.38	35.704		
3,705.0	3,653.4	3,585.6	3,550.5	12.5	9.5	165.48	86.7	256.8	694.0	674.5	19.42	35.735		
3,800.0	3,745.6	3,672.7	3,634.8	13.0	9.9	164.42	103.5	270.8	729.9	709.8	20.10	36.314		
3,895.0	3,837.7	3,759.8	3,719.1	13.4	10.3	163.46	120.3	284.7	766.0	745.2	20.78	36.854		
3,900.0	3,842.6	3,764.4	3,723.5	13.4	10.3	163.41	121.1	285.5	767.9	747.0	20.82	36.882		
3,990.0	3,929.9	3,846.9	3,803.4	13.8	10.7	162.59	137.0	298.7	802.2	780.8	21.47	37.359		
4,000.0	3,939.6	3,856.0	3,812.3	13.9	10.7	162.50	138.8	300.1	806.1	784.5	21.55	37.410		
4,085.0	4,022.1	3,934.0	3,887.7	14.3	11.1	161.78	153.8	312.6	838.7	816.5	22.17	37.830		
4,100.0	4,036.6	3,947.7	3,901.0	14.3	11.1	161.66	156.4	314.8	844.4	822.1	22.28	37.902		
4,180.0	4,114.3	4,021.0	3,972.0	14.7	11.5	161.05	170.5	326.6	875.2	852.3	22.87	38.272		
4,200.0	4,133.7	4,039.4	3,989.8	14.8	11.6	160.90	174.1	329.5	882.9	859.9	23.02	38.361		
4,275.0	4,206.5	4,108.1	4,056.3	15.1	11.9	160.37	187.3	340.5	911.9	888.3	23.57	38.685		
4,300.0	4,230.7	4,131.1	4,078.5	15.3	12.0	160.20	191.7	344.2	921.5	897.8	23.76	38.790		
4,370.0	4,298.6	4,195.2	4,140.7	15.6	12.3	159.75	204.1	354.5	948.6	924.4	24.28	39.073		
4,400.0	4,327.7	4,222.7	4,167.3	15.7	12.4	159.56	209.3	358.9	960.3	935.8	24.50	39.190		
4,465.0	4,390.8	4,282.3	4,225.0	16.0	12.7	159.17	220.8	368.5	985.5	960.5	24.99	39.437		
4,500.0	4,424.8	4,314.4	4,256.0	16.2	12.8	158.97	227.0	373.6	999.1	973.8	25.25	39.566		
4,560.0	4,483.0	4,369.4	4,309.3	16.5	13.1	158.63	237.6	382.4	1,022.4	996.7	25.70	39.779		
4,600.0	4,521.8	4,406.1	4,344.8	16.6	13.2	158.42	244.6	388.3	1,038.0	1,012.0	26.00	39.918		
4,655.0	4,575.2	4,456.5	4,393.6	16.9	13.5	158.13	254.3	396.4	1,059.4	1,033.0	26.42	40.102		
4,700.0	4,618.8	4,497.7	4,433.5	17.1	13.7	157.91	262.3	403.0	1,077.0	1,050.2	26.76	40.248		
4,750.0	4,667.4	4,543.6	4,477.9	17.3	13.9	157.66	271.1	410.3	1,096.5	1,069.4	27.14	40.406		
4,800.0	4,715.9	4,589.4	4,522.3	17.6	14.1	157.43	279.9	417.7	1,116.1	1,088.5	27.52	40.559		
4,845.0	4,759.5	4,630.7	4,562.2	17.8	14.3	157.23	287.9	424.3	1,133.6	1,105.8	27.86	40.692		
4,900.0	4,812.9	4,681.1	4,611.0	18.0	14.5	156.99	297.6	432.4	1,155.2	1,126.9	28.28	40.851		
4,940.0	4,851.7	4,717.8	4,646.6	18.2	14.7	156.82	304.6	438.2	1,170.8	1,142.2	28.58	40.964		
5,000.0	4,909.9	4,772.8	4,699.8	18.5	15.0	156.57	315.2	447.1	1,194.3	1,165.3	29.04	41.127		
5,035.0	4,943.9	4,804.9	4,730.9	18.7	15.1	156.43	321.4	452.2	1,208.1	1,178.8	29.31	41.220		
5,100.0	5,007.0	4,864.4	4,788.6	19.0	15.4	156.18	332.8	461.7	1,233.6	1,203.8	29.81	41.388		
5,130.0	5,036.1	4,891.9	4,815.2	19.1	15.5	156.07	338.1	466.2	1,245.3	1,215.3	30.04	41.463		
5,200.0	5,104.0	4,956.1	4,877.3	19.5	15.8	155.82	350.5	476.4	1,272.8	1,242.3	30.57	41.634		
5,225.0	5,128.3	4,979.0	4,899.5	19.6	15.9	155.73	354.9	480.1	1,282.7	1,251.9	30.76	41.693		
5,300.0	5,201.0	5,047.8	4,966.1	19.9	16.3	155.48	368.1	491.1	1,312.1	1,280.8	31.34	41.867		

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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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	
0.0	0.0	1.2	1.2	3.0	3.0	179.81	-150.0	0.5	150.0					
95.0	95.0	96.2	96.2	3.0	3.0	179.81	-150.0	0.5	150.0	144.0	6.02	24.925		
100.0	100.0	101.2	101.2	3.0	3.0	179.81	-150.0	0.5	150.0	144.0	6.02	24.913		
190.0	190.0	191.2	191.2	3.1	3.0	179.81	-150.0	0.5	150.0	143.9	6.13	24.455		
200.0	200.0	201.2	201.2	3.1	3.0	179.81	-150.0	0.5	150.0	143.8	6.15	24.382		
285.0	285.0	286.2	286.2	3.3	3.0	179.81	-150.0	0.5	150.0	143.7	6.26	23.943		
300.0	300.0	301.2	301.2	3.3	3.0	179.81	-150.0	0.5	150.0	143.7	6.29	23.856		
380.0	380.0	381.2	381.2	3.4	3.0	179.81	-150.0	0.5	150.0	143.6	6.40	23.444		
400.0	400.0	401.2	401.2	3.4	3.0	179.81	-150.0	0.5	150.0	143.6	6.43	23.334		
475.0	475.0	476.2	476.2	3.5	3.0	179.81	-150.0	0.5	150.0	143.5	6.54	22.952		
500.0	500.0	501.2	501.2	3.5	3.1	179.81	-150.0	0.5	150.0	143.4	6.57	22.819		
570.0	570.0	571.2	571.2	3.6	3.1	179.81	-150.0	0.5	150.0	143.3	6.68	22.465		
600.0	600.0	601.2	601.2	3.6	3.1	179.81	-150.0	0.5	150.0	143.3	6.72	22.309		
665.0	665.0	666.2	666.2	3.7	3.1	179.81	-150.0	0.5	150.0	143.2	6.82	21.985		
700.0	700.0	701.2	701.2	3.8	3.1	179.81	-150.0	0.5	150.0	143.1	6.88	21.807		
760.0	760.0	761.2	761.2	3.8	3.1	179.81	-150.0	0.5	150.0	143.0	6.97	21.513		
800.0	800.0	801.2	801.2	3.9	3.2	179.81	-150.0	0.5	150.0	143.0	7.04	21.314		
855.0	855.0	856.2	856.2	4.0	3.2	179.81	-150.0	0.5	150.0	142.9	7.13	21.048		
900.0	900.0	901.2	901.2	4.0	3.2	179.81	-150.0	0.5	150.0	142.8	7.20	20.829		
950.0	950.0	951.2	951.2	4.1	3.2	179.81	-150.0	0.5	150.0	142.7	7.28	20.592		
1,000.0	1,000.0	1,001.2	1,001.2	4.1	3.2	179.81	-150.0	0.5	150.0	142.6	7.37	20.354		
1,045.0	1,045.0	1,046.2	1,046.2	4.2	3.3	179.81	-150.0	0.5	150.0	142.6	7.45	20.145		
1,100.0	1,100.0	1,101.2	1,101.2	4.2	3.3	179.81	-150.0	0.5	150.0	142.5	7.54	19.890		
1,140.0	1,140.0	1,141.2	1,141.2	4.3	3.3	179.81	-150.0	0.5	150.0	142.4	7.61	19.708		
1,200.0	1,200.0	1,201.2	1,201.2	4.4	3.4	179.81	-150.0	0.5	150.0	142.3	7.72	19.436		
1,235.0	1,235.0	1,236.2	1,236.2	4.4	3.4	179.81	-150.0	0.5	150.0	142.2	7.78	19.280		
1,300.0	1,300.0	1,301.2	1,301.2	4.5	3.4	179.81	-150.0	0.5	150.0	142.1	7.90	18.993		
1,330.0	1,330.0	1,331.2	1,331.2	4.5	3.4	179.81	-150.0	0.5	150.0	142.0	7.95	18.863		
1,400.0	1,400.0	1,401.2	1,401.2	4.6	3.5	179.81	-150.0	0.5	150.0	141.9	8.08	18.562		
1,425.0	1,425.0	1,426.2	1,426.2	4.6	3.5	179.81	-150.0	0.5	150.0	141.9	8.13	18.456		
1,500.0	1,500.0	1,501.2	1,501.2	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	1,521.2	1,521.2	4.7	3.6	-108.03	-150.0	0.5	150.0	141.7	8.30	18.068 ES		
1,600.0	1,600.0	1,601.2	1,601.2	4.8	3.6	-108.63	-150.0	0.5	150.5	142.1	8.45	17.823		
1,615.0	1,615.0	1,616.2	1,616.2	4.9	3.6	-108.83	-150.0	0.5	150.7	142.2	8.48	17.770		
1,700.0	1,699.8	1,701.0	1,701.0	5.0	3.7	-110.46	-150.0	0.5	152.3	143.6	8.69	17.530		
1,710.0	1,709.8	1,711.0	1,711.0	5.0	3.7	-110.70	-150.0	0.5	152.6	143.8	8.71	17.510		
1,800.0	1,799.5	1,800.7	1,800.7	5.3	3.8	-113.40	-150.0	0.5	155.6	146.6	8.94	17.404		
1,805.0	1,804.4	1,805.6	1,805.6	5.3	3.8	-113.57	-150.0	0.5	155.8	146.8	8.95	17.402		
1,900.0	1,898.7	1,899.9	1,899.9	5.6	3.9	-117.27	-150.0	0.5	160.8	151.6	9.21	17.469		
1,995.0	1,992.5	1,993.7	1,993.7	5.9	3.9	-121.58	-150.0	0.5	168.2	158.7	9.48	17.733		
2,000.0	1,997.5	1,998.7	1,998.7	5.9	3.9	-121.82	-150.0	0.5	168.6	159.1	9.50	17.753		
2,090.0	2,085.8	2,092.5	2,092.5	6.2	4.1	-126.41	-148.8	-0.4	176.9	167.0	9.93	17.815		
2,100.0	2,095.6	2,103.0	2,102.9	6.2	4.2	-126.93	-148.5	-0.6	177.8	167.9	9.99	17.809		
2,185.0	2,178.5	2,192.0	2,191.8	6.5	4.4	-131.31	-144.8	-3.3	185.7	175.2	10.50	17.683		
2,199.8	2,192.9	2,207.5	2,207.3	6.6	4.4	-132.08	-143.9	-3.9	187.1	176.5	10.60	17.655		
2,280.0	2,270.7	2,291.9	2,291.4	6.8	4.7	-136.14	-138.0	-8.3	193.9	182.8	11.10	17.463		
2,300.0	2,290.1	2,313.0	2,312.4	6.9	4.8	-137.10	-136.2	-9.6	195.3	184.1	11.23	17.390		
2,375.0	2,362.9	2,392.5	2,391.3	7.2	5.0	-140.53	-128.4	-15.4	199.9	188.2	11.74	17.030		
2,400.0	2,387.1	2,419.1	2,417.6	7.2	5.1	-141.63	-125.3	-17.6	201.1	189.2	11.91	16.884		
2,470.0	2,455.0	2,493.6	2,491.2	7.5	5.4	-144.65	-115.8	-24.6	203.6	191.2	12.42	16.398		
2,500.0	2,484.1	2,525.6	2,522.6	7.6	5.5	-145.92	-111.2	-27.9	204.3	191.7	12.64	16.163		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,565.0	2,547.2	2,594.8	2,590.6	7.8	5.7	-148.67	-100.4	-35.9	204.9	191.8	13.14	15.601		
2,600.0	2,581.2	2,632.1	2,627.0	7.9	5.9	-150.16	-94.0	-40.6	204.8	191.4	13.41	15.275		
2,660.0	2,639.4	2,696.0	2,689.2	8.2	6.1	-152.75	-82.2	-49.3	203.8	189.9	13.88	14.681		
2,700.0	2,678.2	2,735.9	2,727.9	8.3	6.3	-154.40	-74.4	-55.0	202.9	188.7	14.18	14.305		
2,755.0	2,731.6	2,790.3	2,780.6	8.5	6.5	-156.67	-63.8	-62.8	201.9	187.3	14.60	13.831		
2,800.0	2,775.2	2,834.8	2,823.8	8.7	6.6	-158.55	-55.1	-69.1	201.3	186.3	14.94	13.476		
2,850.0	2,823.8	2,884.2	2,871.8	8.9	6.8	-160.64	-45.5	-76.2	200.9	185.6	15.32	13.115		
2,896.0	2,868.4	2,929.7	2,916.0	9.1	6.9	-162.57	-36.6	-82.7	200.8	185.1	15.67	12.814		
2,900.0	2,872.3	2,933.6	2,919.8	9.1	7.0	-162.74	-35.8	-83.3	200.8	185.1	15.70	12.789		
2,945.0	2,915.9	2,978.1	2,962.9	9.3	7.1	-164.62	-27.1	-89.7	200.9	184.9	16.04	12.525		
3,000.0	2,969.3	3,032.5	3,015.7	9.5	7.3	-166.93	-16.5	-97.4	201.4	184.9	16.45	12.239		
3,040.0	3,008.1	3,072.1	3,054.1	9.7	7.5	-168.59	-8.8	-103.1	201.9	185.2	16.75	12.055		
3,100.0	3,066.3	3,131.4	3,111.7	9.9	7.7	-171.07	2.8	-111.6	203.1	185.9	17.19	11.815		
3,135.0	3,100.3	3,166.0	3,145.2	10.1	7.8	-172.50	9.5	-116.5	203.9	186.5	17.44	11.694		
3,200.0	3,163.4	3,230.3	3,207.6	10.3	8.1	-175.12	22.0	-125.7	205.8	187.9	17.89	11.506		
3,230.0	3,192.5	3,260.0	3,236.4	10.5	8.2	-176.32	27.8	-130.0	206.8	188.7	18.09	11.433		
3,300.0	3,260.4	3,329.2	3,303.6	10.8	8.5	-179.06	41.3	-139.9	209.6	191.0	18.55	11.298		
3,325.0	3,284.7	3,353.9	3,327.5	10.9	8.6	-179.98	46.2	-143.4	210.7	192.0	18.71	11.261		
3,400.0	3,357.4	3,428.1	3,399.5	11.2	8.9	-177.17	60.6	-154.1	214.3	195.1	19.17	11.180		
3,420.0	3,376.8	3,447.9	3,418.7	11.3	9.0	-176.43	64.5	-156.9	215.4	196.1	19.29	11.166		
3,500.0	3,454.5	3,527.0	3,495.5	11.6	9.3	-173.56	79.9	-168.2	220.0	200.2	19.74	11.140		
3,515.0	3,469.0	3,541.8	3,509.9	11.7	9.4	-173.04	82.8	-170.3	220.9	201.1	19.83	11.140		
3,600.0	3,551.5	3,625.9	3,591.4	12.1	9.7	-170.15	99.2	-182.4	226.4	206.2	20.28	11.166		
3,610.0	3,561.2	3,635.7	3,601.0	12.1	9.8	-169.82	101.1	-183.8	227.1	206.8	20.33	11.172		
3,700.0	3,648.5	3,724.7	3,687.4	12.5	10.2	-166.93	118.5	-196.5	233.7	212.9	20.78	11.248		
3,705.0	3,653.4	3,729.7	3,692.2	12.5	10.2	-166.78	119.4	-197.2	234.1	213.3	20.80	11.253		
3,800.0	3,745.6	3,823.6	3,783.3	13.0	10.6	-163.92	137.8	-210.7	241.6	220.4	21.24	11.376		
3,895.0	3,837.7	3,917.6	3,874.5	13.4	11.0	-161.23	156.1	-224.1	249.8	228.1	21.66	11.534		
3,900.0	3,842.6	3,922.5	3,879.3	13.4	11.0	-161.10	157.1	-224.8	250.2	228.5	21.68	11.543		
3,990.0	3,929.9	4,011.5	3,965.6	13.8	11.4	-158.72	174.4	-237.6	258.4	236.4	22.05	11.721		
4,000.0	3,939.6	4,021.4	3,975.2	13.9	11.5	-158.47	176.3	-239.0	259.4	237.3	22.09	11.742		
4,085.0	4,022.1	4,105.5	4,056.8	14.3	11.9	-156.37	192.7	-251.0	267.6	245.1	22.43	11.930		
4,100.0	4,036.6	4,120.3	4,071.2	14.3	11.9	-156.02	195.6	-253.1	269.0	246.6	22.48	11.965		
4,180.0	4,114.3	4,199.4	4,147.9	14.7	12.3	-154.18	211.1	-264.4	277.1	254.3	22.79	12.159		
4,200.0	4,133.7	4,219.2	4,167.1	14.8	12.4	-153.74	214.9	-267.3	279.2	256.3	22.87	12.209		
4,275.0	4,206.5	4,293.4	4,239.1	15.1	12.7	-152.14	229.4	-277.9	287.0	263.9	23.14	12.401		
4,300.0	4,230.7	4,318.1	4,263.1	15.3	12.8	-151.62	234.2	-281.4	289.7	266.5	23.24	12.467		
4,370.0	4,298.6	4,387.3	4,330.2	15.6	13.1	-150.23	247.7	-291.3	297.3	273.8	23.49	12.655		
4,400.0	4,327.7	4,417.0	4,359.0	15.7	13.3	-149.66	253.5	-295.6	300.6	277.0	23.60	12.736		
4,465.0	4,390.8	4,481.2	4,421.4	16.0	13.6	-148.45	266.0	-304.8	307.8	284.0	23.84	12.916		
4,500.0	4,424.8	4,515.8	4,455.0	16.2	13.7	-147.83	272.8	-309.7	311.8	287.9	23.96	13.014		
4,560.0	4,483.0	4,575.2	4,512.5	16.5	14.0	-146.79	284.4	-318.2	318.7	294.5	24.18	13.182		
4,600.0	4,521.8	4,614.7	4,550.9	16.6	14.2	-146.13	292.1	-323.9	323.3	299.0	24.32	13.296		
4,655.0	4,575.2	4,669.1	4,603.7	16.9	14.5	-145.24	302.7	-331.7	329.8	305.3	24.52	13.452		
4,700.0	4,618.8	4,713.6	4,646.9	17.1	14.7	-144.54	311.4	-338.0	335.1	310.4	24.68	13.581		
4,750.0	4,667.4	4,763.1	4,694.8	17.3	14.9	-143.79	321.0	-345.1	341.1	316.2	24.86	13.723		
4,800.0	4,715.9	4,812.5	4,742.8	17.6	15.1	-143.07	330.6	-352.2	347.1	322.1	25.04	13.866		
4,845.0	4,759.5	4,857.0	4,786.0	17.8	15.3	-142.44	339.3	-358.6	352.6	327.4	25.20	13.994		
4,900.0	4,812.9	4,911.4	4,838.8	18.0	15.6	-141.69	349.9	-366.4	359.4	334.0	25.40	14.151		
4,940.0	4,851.7	4,951.0	4,877.1	18.2	15.8	-141.17	357.6	-372.0	364.3	338.8	25.54	14.264		
5,000.0	4,909.9	5,010.3	4,934.7	18.5	16.0	-140.41	369.2	-380.5	371.8	346.0	25.76	14.433		

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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Reference	Offset	Highside Toolface	Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
5,035.0	4,943.9	5,044.9	4,968.3	18.7	16.2	139.98	376.0	-385.5	376.2	350.3	25.89	14.531	
5,100.0	5,007.0	5,109.2	5,030.7	19.0	16.5	139.20	388.5	-394.7	384.4	358.3	26.13	14.712	
5,130.0	5,036.1	5,138.8	5,059.4	19.1	16.7	138.86	394.3	-398.9	388.2	362.0	26.24	14.795	
5,200.0	5,104.0	5,208.1	5,126.6	19.5	17.0	138.08	407.8	-408.8	397.2	370.7	26.50	14.987	
5,225.0	5,128.3	5,232.8	5,150.6	19.6	17.1	137.81	412.6	-412.4	400.4	373.8	26.60	15.055	
5,300.0	5,201.0	5,306.9	5,222.6	19.9	17.5	137.02	427.1	-423.0	410.1	383.2	26.88	15.257	
5,320.0	5,220.4	5,326.7	5,241.8	20.0	17.5	136.82	430.9	-425.8	412.7	385.7	26.95	15.310	
5,400.0	5,298.1	5,405.8	5,318.5	20.4	17.9	136.03	446.4	-437.1	423.1	395.8	27.26	15.522	
5,415.0	5,312.6	5,420.7	5,332.9	20.5	18.0	135.88	449.3	-439.2	425.1	397.8	27.32	15.561	
5,500.0	5,395.1	5,504.7	5,414.5	20.9	18.4	135.09	465.7	-451.3	436.3	408.6	27.64	15.781	
5,510.0	5,404.8	5,514.6	5,424.1	20.9	18.4	135.00	467.6	-452.7	437.6	409.9	27.68	15.806	
5,600.0	5,492.1	5,603.6	5,510.4	21.4	18.9	134.22	484.9	-465.4	449.5	421.5	28.04	16.034	
5,605.0	5,497.0	5,608.6	5,515.2	21.4	18.9	134.17	485.9	-466.1	450.2	422.1	28.06	16.046	
5,700.0	5,589.1	5,702.5	5,606.4	21.8	19.3	133.39	504.2	-479.6	462.9	434.4	28.43	16.281	
5,795.0	5,681.3	5,796.4	5,697.5	22.3	19.8	132.64	522.6	-493.0	475.6	446.8	28.81	16.509	
5,800.0	5,686.2	5,801.4	5,702.3	22.3	19.8	132.61	523.5	-493.7	476.3	447.5	28.83	16.521	
5,890.0	5,773.5	5,890.4	5,788.7	22.8	20.2	131.94	540.9	-506.5	488.5	459.3	29.19	16.732	
5,900.0	5,783.2	5,900.3	5,798.3	22.8	20.3	131.87	542.8	-507.9	489.8	460.6	29.23	16.756	
5,985.0	5,865.7	5,984.0	5,879.5	23.2	20.7	131.28	559.1	-519.8	501.4	471.9	29.55	16.966	
6,000.0	5,880.2	5,986.6	5,893.7	23.3	20.7	131.19	561.8	-521.8	503.5	473.9	29.61	17.003	
6,080.0	5,957.9	6,076.3	5,969.6	23.7	21.1	130.89	575.5	-531.9	514.6	484.6	29.97	17.169	
6,100.0	5,977.3	6,095.8	5,988.6	23.8	21.2	130.85	578.6	-534.2	517.4	487.3	30.07	17.207	
6,175.0	6,050.0	6,168.7	6,060.3	24.1	21.6	130.84	589.5	-542.2	528.1	497.6	30.46	17.339	
6,200.0	6,074.3	6,193.0	6,084.2	24.2	21.7	130.88	592.8	-544.6	531.7	501.1	30.60	17.378	
6,270.0	6,142.2	6,260.9	6,151.3	24.6	22.0	131.11	601.2	-550.7	541.9	510.9	31.00	17.480	
6,299.8	6,171.1	6,289.8	6,179.9	24.7	22.1	131.25	604.3	-553.0	546.3	515.1	31.18	17.518	
6,365.0	6,234.6	6,352.9	6,242.6	25.0	22.4	131.75	610.4	-557.5	555.6	524.0	31.59	17.587	
6,400.0	6,268.8	6,386.8	6,276.3	25.2	22.5	132.02	613.3	-559.6	560.2	528.4	31.81	17.612	
6,460.0	6,327.6	6,444.8	6,334.1	25.5	22.8	132.49	617.3	-562.6	567.6	535.5	32.17	17.645	
6,500.0	6,366.9	6,483.5	6,372.7	25.7	22.9	132.81	619.5	-564.2	572.2	539.8	32.41	17.654	
6,555.0	6,421.2	6,536.7	6,425.9	25.9	23.1	133.24	621.9	-565.9	578.0	545.3	32.73	17.659	
6,600.0	6,465.7	6,580.2	6,469.3	26.1	23.2	133.61	623.2	-566.9	582.4	549.4	33.00	17.648	
6,650.0	6,515.3	6,628.5	6,517.6	26.4	23.4	134.02	624.0	-567.5	586.7	553.5	33.27	17.634	
6,700.0	6,564.9	6,677.1	6,566.1	26.6	23.4	134.43	624.2	-567.6	590.7	557.1	33.54	17.609	
6,745.0	6,609.7	6,721.8	6,610.9	26.8	23.4	134.78	624.2	-567.6	593.7	559.9	33.78	17.578	
6,800.0	6,664.6	6,776.7	6,665.8	27.0	23.5	135.12	624.2	-567.6	596.8	562.7	34.06	17.523	
6,840.0	6,704.5	6,816.6	6,705.7	27.1	23.5	135.31	624.2	-567.6	598.6	564.4	34.24	17.483	
6,900.0	6,764.4	6,876.5	6,765.6	27.3	23.5	135.52	624.2	-567.6	600.5	566.0	34.49	17.413	
6,935.0	6,799.4	6,911.5	6,800.6	27.4	23.5	135.60	624.2	-567.6	601.2	566.7	34.58	17.386	
6,999.6	6,864.0	6,976.1	6,865.2	27.5	23.5	63.47	624.2	-567.6	601.8	567.0	34.73	17.326	
7,030.0	6,894.4	7,006.5	6,895.6	27.5	23.5	63.47	624.2	-567.6	601.8	567.0	34.77	17.309	
7,100.0	6,964.4	7,093.6	6,982.6	27.5	23.6	63.52	623.5	-567.7	601.6	566.6	35.00	17.188	
7,125.0	6,989.4	7,154.7	7,043.5	27.5	23.6	64.02	617.3	-568.6	600.1	564.7	35.48	16.913	
7,200.0	7,064.4	7,322.3	7,202.9	27.6	23.7	68.17	567.9	-575.6	587.7	550.3	37.33	15.742	
7,220.0	7,084.4	7,341.8	7,220.1	27.6	23.7	68.95	559.0	-576.8	582.7	545.1	37.59	15.501	
7,300.0	7,164.4	7,489.3	7,340.7	27.6	23.8	76.92	475.6	-588.6	559.2	518.9	40.37	13.853	
7,315.0	7,179.4	7,508.9	7,354.9	27.6	23.9	78.29	462.3	-590.5	554.5	513.7	40.83	13.582	
7,400.0	7,264.4	7,598.9	7,414.0	27.6	23.9	85.51	395.2	-600.0	528.8	485.6	43.19	12.243	
7,410.0	7,274.4	7,607.6	7,419.1	27.6	23.9	86.28	388.3	-601.0	526.0	482.6	43.43	12.112	
7,500.0	7,364.4	7,671.5	7,453.5	27.7	24.0	92.36	334.9	-608.5	505.6	460.5	45.09	11.213	
7,505.0	7,369.4	7,674.4	7,454.9	27.7	24.0	92.65	332.4	-608.9	504.7	459.6	45.15	11.179	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Distance		Rule Assigned:		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
7,600.0	7,464.4	7,721.6	7,476.1	27.7	24.0	97.50	290.7	-614.8	495.6	449.9	45.64	10.858 SF
7,612.6	7,477.0	7,726.7	7,478.2	27.7	24.0	98.05	286.0	-615.5	495.4	449.8	45.60	10.864
7,695.0	7,559.4	7,756.1	7,489.4	27.7	24.0	101.19	259.1	-619.3	501.3	456.4	44.81	11.186
7,700.0	7,564.4	7,757.7	7,489.9	27.7	24.0	101.36	257.7	-619.5	502.0	457.3	44.74	11.221
7,790.0	7,654.4	7,782.4	7,498.2	27.8	24.1	104.03	234.6	-622.7	522.4	479.5	42.93	12.170
7,800.0	7,664.4	7,784.8	7,498.9	27.8	24.1	104.29	232.3	-623.0	525.5	482.8	42.69	12.311
7,885.0	7,749.4	7,800.0	7,503.4	27.8	24.1	105.95	218.0	-625.1	557.9	517.5	40.38	13.817
7,900.0	7,764.4	7,800.0	7,503.4	27.8	24.1	105.95	218.0	-625.1	564.7	524.8	39.89	14.157
7,980.0	7,844.4	7,819.5	7,508.6	27.8	24.1	108.06	199.4	-627.7	605.5	567.6	37.93	15.963
8,000.0	7,864.4	7,822.5	7,509.4	27.8	24.1	108.39	196.5	-628.1	616.9	579.4	37.42	16.484
8,075.0	7,939.4	7,832.9	7,511.9	27.8	24.1	109.52	186.5	-629.5	662.9	627.2	35.64	18.599
8,100.0	7,964.4	7,836.1	7,512.6	27.9	24.1	109.86	183.4	-630.0	679.3	644.2	35.10	19.354
8,170.0	8,034.4	7,850.0	7,515.5	27.9	24.1	111.36	170.0	-631.9	727.8	693.9	33.86	21.497
8,200.0	8,064.4	7,850.0	7,515.5	27.9	24.1	111.36	170.0	-631.9	749.5	716.3	33.28	22.524
8,265.0	8,129.4	7,850.0	7,515.5	27.9	24.1	111.36	170.0	-631.9	798.5	766.3	32.19	24.803
8,300.0	8,164.4	7,850.0	7,515.5	27.9	24.1	111.36	170.0	-631.9	825.7	794.0	31.70	26.050
8,360.0	8,224.4	7,850.0	7,515.5	27.9	24.1	111.36	170.0	-631.9	873.7	842.8	30.98	28.203
8,400.0	8,264.4	7,864.9	7,518.3	28.0	24.1	112.95	155.5	-633.9	906.3	875.5	30.79	29.431
8,455.0	8,319.4	7,868.8	7,519.0	28.0	24.1	113.37	151.6	-634.5	952.1	921.9	30.20	31.532
8,486.6	8,351.0	7,871.0	7,519.3	28.0	24.1	113.60	149.5	-634.8	978.9	949.0	29.89	32.747
8,500.0	8,364.4	7,871.9	7,519.5	28.0	24.1	-64.84	148.6	-634.9	990.2	960.4	29.81	33.214
8,550.0	8,414.3	7,876.3	7,520.2	28.0	24.1	-57.50	144.3	-635.5	1,032.5	1,003.0	29.56	34.933
8,600.0	8,463.7	7,882.0	7,521.0	28.0	24.1	-50.93	138.8	-636.3	1,074.2	1,044.8	29.34	36.608
8,645.0	8,507.4	7,900.0	7,523.3	28.0	24.1	-44.99	121.1	-638.8	1,111.0	1,081.7	29.30	37.920
8,650.0	8,512.2	7,900.0	7,523.3	28.0	24.1	-44.52	121.1	-638.8	1,115.1	1,085.8	29.28	38.087
8,700.0	8,559.5	7,900.0	7,523.3	28.0	24.1	-40.20	121.1	-638.8	1,154.5	1,125.4	29.07	39.713
8,740.0	8,596.2	7,900.0	7,523.3	28.0	24.1	-37.22	121.1	-638.8	1,185.1	1,156.2	28.94	40.953
8,750.0	8,605.2	7,900.0	7,523.3	28.0	24.1	-36.53	121.1	-638.8	1,192.7	1,163.8	28.91	41.254
8,800.0	8,649.0	7,900.0	7,523.3	28.0	24.1	-33.42	121.1	-638.8	1,229.5	1,200.7	28.80	42.695
8,835.0	8,678.3	7,922.0	7,525.4	28.0	24.2	-30.82	99.4	-641.8	1,253.7	1,224.8	28.89	43.395
8,850.0	8,690.5	7,925.1	7,525.6	28.1	24.2	-30.02	96.3	-642.3	1,264.0	1,235.1	28.89	43.749
8,900.0	8,729.5	7,950.0	7,526.8	28.1	24.2	-27.27	71.7	-645.8	1,297.0	1,268.0	29.00	44.724
8,930.0	8,751.5	7,950.0	7,526.8	28.1	24.2	-26.21	71.7	-645.8	1,315.5	1,286.5	28.99	45.384

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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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, 7438-r.5 MWD+IFR1+MS										Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance			Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	1.0	1.0	3.0	3.0	168.47	-149.5	30.5	152.6					
95.0	95.0	96.0	96.0	3.0	3.0	168.47	-149.5	30.5	152.6	146.6	6.02	25.354		
100.0	100.0	101.0	101.0	3.0	3.0	168.47	-149.5	30.5	152.6	146.6	6.02	25.341		
190.0	190.0	191.0	191.0	3.1	3.0	168.47	-149.5	30.5	152.6	146.4	6.13	24.876		
200.0	200.0	201.0	201.0	3.1	3.0	168.47	-149.5	30.5	152.6	146.4	6.15	24.803		
285.0	285.0	286.0	286.0	3.3	3.0	168.47	-149.5	30.5	152.6	146.3	6.26	24.358		
300.0	300.0	301.0	301.0	3.3	3.0	168.47	-149.5	30.5	152.6	146.3	6.29	24.269		
380.0	380.0	381.0	381.0	3.4	3.0	168.47	-149.5	30.5	152.6	146.2	6.40	23.853		
400.0	400.0	401.0	401.0	3.4	3.0	168.47	-149.5	30.5	152.6	146.2	6.43	23.742		
475.0	475.0	476.0	476.0	3.5	3.0	168.47	-149.5	30.5	152.6	146.0	6.53	23.356		
500.0	500.0	501.0	501.0	3.5	3.1	168.47	-149.5	30.5	152.6	146.0	6.57	23.221		
570.0	570.0	571.0	571.0	3.6	3.1	168.47	-149.5	30.5	152.6	145.9	6.67	22.865		
600.0	600.0	601.0	601.0	3.6	3.1	168.47	-149.5	30.5	152.6	145.9	6.72	22.707		
665.0	665.0	666.0	666.0	3.7	3.1	168.47	-149.5	30.5	152.6	145.8	6.82	22.381		
700.0	700.0	701.0	701.0	3.8	3.1	168.47	-149.5	30.5	152.6	145.7	6.87	22.202		
760.0	760.0	761.0	761.0	3.8	3.1	168.47	-149.5	30.5	152.6	145.6	6.97	21.905		
800.0	800.0	801.0	801.0	3.9	3.2	168.47	-149.5	30.5	152.6	145.5	7.03	21.704		
855.0	855.0	856.0	856.0	4.0	3.2	168.47	-149.5	30.5	152.6	145.5	7.12	21.437		
900.0	900.0	901.0	901.0	4.0	3.2	168.47	-149.5	30.5	152.6	145.4	7.19	21.216		
950.0	950.0	951.0	951.0	4.1	3.2	168.47	-149.5	30.5	152.6	145.3	7.27	20.978		
1,000.0	1,000.0	1,001.0	1,001.0	4.1	3.2	168.47	-149.5	30.5	152.6	145.2	7.36	20.738		
1,045.0	1,045.0	1,046.0	1,046.0	4.2	3.3	168.47	-149.5	30.5	152.6	145.1	7.43	20.528		
1,100.0	1,100.0	1,101.0	1,101.0	4.2	3.3	168.47	-149.5	30.5	152.6	145.1	7.53	20.271		
1,140.0	1,140.0	1,141.0	1,141.0	4.3	3.3	168.47	-149.5	30.5	152.6	145.0	7.60	20.088		
1,200.0	1,200.0	1,201.0	1,201.0	4.4	3.4	168.47	-149.5	30.5	152.6	144.9	7.70	19.814		
1,235.0	1,235.0	1,236.0	1,236.0	4.4	3.4	168.47	-149.5	30.5	152.6	144.8	7.76	19.657		
1,300.0	1,300.0	1,301.0	1,301.0	4.5	3.4	168.47	-149.5	30.5	152.6	144.7	7.88	19.368		
1,330.0	1,330.0	1,331.0	1,331.0	4.5	3.4	168.47	-149.5	30.5	152.6	144.6	7.93	19.237		
1,400.0	1,400.0	1,401.0	1,401.0	4.6	3.5	168.47	-149.5	30.5	152.6	144.5	8.06	18.934		
1,425.0	1,425.0	1,426.0	1,426.0	4.6	3.5	168.47	-149.5	30.5	152.6	144.5	8.10	18.828		
1,500.0	1,500.0	1,501.0	1,501.0	4.7	3.5	168.47	-149.5	30.5	152.6	144.3	8.24	18.512 CC		
1,520.0	1,520.0	1,521.0	1,521.0	4.7	3.6	-119.37	-149.5	30.5	152.6	144.3	8.28	18.435 ES		
1,600.0	1,600.0	1,601.0	1,601.0	4.8	3.6	-119.90	-149.5	30.5	153.4	145.0	8.43	18.197		
1,615.0	1,615.0	1,616.0	1,616.0	4.9	3.6	-120.07	-149.5	30.5	153.7	145.3	8.47	18.152		
1,700.0	1,699.8	1,700.8	1,700.8	5.0	3.7	-121.52	-149.5	30.5	156.1	147.4	8.68	17.982		
1,710.0	1,709.8	1,710.8	1,710.8	5.0	3.7	-121.73	-149.5	30.5	156.5	147.8	8.71	17.972 SF		
1,800.0	1,799.5	1,800.5	1,800.5	5.3	3.8	-124.08	-149.5	30.5	160.9	151.9	8.94	17.989		
1,805.0	1,804.4	1,805.4	1,805.4	5.3	3.8	-124.23	-149.5	30.5	161.2	152.2	8.96	17.996		
1,900.0	1,898.7	1,899.7	1,899.7	5.6	3.9	-127.39	-149.5	30.5	168.0	158.8	9.22	18.226		
1,995.0	1,992.5	1,993.5	1,993.5	5.9	3.9	-131.02	-149.5	30.5	177.4	167.9	9.50	18.669		
2,000.0	1,997.5	1,998.5	1,998.5	5.9	3.9	-131.22	-149.5	30.5	178.0	168.5	9.52	18.698		
2,090.0	2,085.8	2,092.6	2,092.6	6.2	4.2	-135.29	-148.0	30.3	188.4	178.4	9.97	18.904		
2,100.0	2,095.6	2,103.1	2,103.0	6.2	4.2	-135.77	-147.7	30.2	189.6	179.6	10.02	18.920		
2,185.0	2,178.5	2,191.8	2,191.7	6.5	4.5	-140.06	-143.1	29.6	199.7	189.2	10.53	18.964		
2,199.8	2,192.9	2,207.3	2,207.1	6.6	4.5	-140.84	-142.1	29.4	201.5	190.9	10.62	18.973		
2,280.0	2,270.7	2,290.9	2,290.4	6.8	4.8	-145.16	-134.9	28.3	211.0	199.9	11.09	19.023		
2,300.0	2,290.1	2,311.8	2,311.2	6.9	4.8	-146.23	-132.7	28.0	213.2	202.0	11.21	19.018		
2,375.0	2,362.9	2,390.0	2,388.8	7.2	5.1	-150.21	-123.3	26.6	221.0	209.3	11.66	18.948		
2,400.0	2,387.1	2,416.1	2,414.6	7.2	5.2	-151.54	-119.7	26.1	223.4	211.6	11.81	18.911		
2,470.0	2,455.0	2,489.0	2,486.6	7.5	5.5	-155.30	-108.3	24.4	229.8	217.6	12.24	18.772		
2,500.0	2,484.1	2,520.2	2,517.3	7.6	5.5	-156.92	-102.9	23.6	232.5	220.1	12.40	18.747		

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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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, 7438-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,565.0	2,547.2	2,585.3	2,581.2	7.8	5.7	-160.33	-90.8	21.7	238.1	225.4	12.71	18.731		
2,600.0	2,581.2	2,619.3	2,614.7	7.9	5.8	-162.07	-84.4	20.8	241.4	228.5	12.89	18.722		
2,660.0	2,639.4	2,677.7	2,672.0	8.2	6.0	-164.93	-73.3	19.1	247.5	234.3	13.23	18.711		
2,700.0	2,678.2	2,716.6	2,710.2	8.3	6.1	-166.76	-66.0	18.0	252.0	238.5	13.45	18.732		
2,755.0	2,731.6	2,770.1	2,762.7	8.5	6.3	-169.18	-55.9	16.5	258.5	244.7	13.76	18.790		
2,800.0	2,775.2	2,813.9	2,805.7	8.7	6.4	-171.07	-47.6	15.3	264.2	250.2	14.00	18.863		
2,850.0	2,823.8	2,862.5	2,853.4	8.9	6.6	-173.08	-38.5	13.9	270.8	256.5	14.28	18.965		
2,900.0	2,872.3	2,911.2	2,901.2	9.1	6.7	-174.99	-29.3	12.6	277.8	263.2	14.55	19.090		
2,945.0	2,915.9	2,955.0	2,944.1	9.3	6.9	-176.63	-21.0	11.3	284.3	269.5	14.79	19.218		
3,000.0	2,969.3	3,008.5	2,996.7	9.5	7.1	-178.54	-10.9	9.8	292.6	277.5	15.09	19.393		
3,040.0	3,008.1	3,047.4	3,034.9	9.7	7.2	-179.86	-3.6	8.7	298.8	283.5	15.30	19.530		
3,100.0	3,066.3	3,105.8	3,092.2	9.9	7.5	178.25	7.5	7.1	308.4	292.8	15.61	19.750		
3,135.0	3,100.3	3,139.8	3,125.6	10.1	7.6	177.21	13.9	6.1	314.1	298.3	15.80	19.885		
3,200.0	3,163.4	3,203.1	3,187.7	10.3	7.8	175.36	25.8	4.4	325.1	308.9	16.13	20.148		
3,230.0	3,192.5	3,232.2	3,216.3	10.5	7.9	174.55	31.3	3.5	330.2	313.9	16.29	20.273		
3,300.0	3,260.4	3,300.4	3,283.2	10.8	8.2	172.75	44.2	1.6	342.5	325.9	16.65	20.572		
3,325.0	3,284.7	3,324.7	3,307.1	10.9	8.3	172.13	48.8	0.9	347.0	330.2	16.78	20.681		
3,400.0	3,357.4	3,397.6	3,378.7	11.2	8.6	170.38	62.6	-1.1	360.6	343.4	17.16	21.014		
3,420.0	3,376.8	3,417.1	3,397.8	11.3	8.7	169.94	66.2	-1.7	364.3	347.0	17.26	21.103		
3,500.0	3,454.5	3,494.9	3,474.2	11.6	9.0	168.25	80.9	-3.9	379.2	361.5	17.67	21.463		
3,515.0	3,469.0	3,509.5	3,488.5	11.7	9.0	167.94	83.7	-4.3	382.0	364.3	17.74	21.531		
3,600.0	3,551.5	3,592.2	3,569.7	12.1	9.4	166.31	99.3	-6.6	398.3	380.1	18.17	21.916		
3,610.0	3,561.2	3,602.0	3,579.3	12.1	9.4	166.13	101.1	-6.9	400.2	382.0	18.23	21.961		
3,700.0	3,648.5	3,689.5	3,665.2	12.5	9.8	164.55	117.6	-9.3	417.8	399.1	18.68	22.365		
3,705.0	3,653.4	3,694.4	3,670.0	12.5	9.8	164.46	118.6	-9.5	418.8	400.1	18.71	22.388		
3,800.0	3,745.6	3,786.8	3,760.7	13.0	10.2	162.94	136.0	-12.1	437.7	418.5	19.19	22.809		
3,895.0	3,837.7	3,879.2	3,851.4	13.4	10.6	161.54	153.5	-14.7	456.8	437.1	19.67	23.223		
3,900.0	3,842.6	3,884.1	3,856.2	13.4	10.6	161.47	154.4	-14.8	457.8	438.1	19.70	23.245		
3,990.0	3,929.9	3,971.7	3,942.2	13.8	11.0	160.26	170.9	-17.3	476.2	456.0	20.15	23.628		
4,000.0	3,939.6	3,981.4	3,951.7	13.9	11.0	160.13	172.7	-17.6	478.2	458.0	20.20	23.670		
4,085.0	4,022.1	4,064.1	4,032.9	14.3	11.4	159.07	188.3	-19.9	495.8	475.2	20.64	24.022		
4,100.0	4,036.6	4,078.7	4,047.2	14.3	11.4	158.90	191.1	-20.3	498.9	478.2	20.72	24.083		
4,180.0	4,114.3	4,156.5	4,123.6	14.7	11.8	157.98	205.8	-22.5	515.6	494.5	21.13	24.404		
4,200.0	4,133.7	4,176.0	4,142.7	14.8	11.9	157.76	209.5	-23.0	519.8	498.5	21.23	24.483		
4,275.0	4,206.5	4,249.0	4,214.4	15.1	12.2	156.96	223.2	-25.1	535.5	513.9	21.62	24.775		
4,300.0	4,230.7	4,273.3	4,238.2	15.3	12.3	156.71	227.8	-25.8	540.8	519.1	21.74	24.871		
4,370.0	4,298.6	4,341.4	4,305.1	15.6	12.6	156.02	240.7	-27.7	555.7	533.5	22.11	25.134		
4,400.0	4,327.7	4,370.6	4,333.7	15.7	12.7	155.74	246.2	-28.5	562.0	539.8	22.26	25.245		
4,465.0	4,390.8	4,433.8	4,395.8	16.0	13.0	155.14	258.1	-30.3	575.9	553.3	22.60	25.481		
4,500.0	4,424.8	4,467.9	4,429.2	16.2	13.1	154.84	264.6	-31.3	583.4	560.6	22.78	25.606		
4,560.0	4,483.0	4,526.2	4,486.6	16.5	13.4	154.33	275.6	-32.9	596.3	573.2	23.10	25.816		
4,600.0	4,521.8	4,565.2	4,524.8	16.6	13.6	154.00	282.9	-34.0	604.9	581.6	23.31	25.954		
4,655.0	4,575.2	4,618.7	4,577.3	16.9	13.8	153.56	293.0	-35.5	616.7	593.1	23.59	26.139		
4,700.0	4,618.8	4,662.5	4,620.3	17.1	14.0	153.22	301.3	-36.7	626.5	602.6	23.83	26.289		
4,750.0	4,667.4	4,711.1	4,668.0	17.3	14.2	152.85	310.5	-38.1	637.3	613.2	24.09	26.451		
4,800.0	4,715.9	4,759.7	4,715.8	17.6	14.4	152.49	319.6	-39.5	648.2	623.8	24.36	26.611		
4,845.0	4,759.5	4,803.5	4,758.7	17.8	14.6	152.18	327.9	-40.7	658.0	633.4	24.60	26.751		
4,900.0	4,812.9	4,857.0	4,811.3	18.0	14.9	151.81	338.0	-42.2	670.0	645.1	24.89	26.920		
4,940.0	4,851.7	4,896.0	4,849.5	18.2	15.0	151.55	345.4	-43.3	678.7	653.6	25.10	27.040		
5,000.0	4,909.9	4,954.3	4,906.8	18.5	15.3	151.17	356.4	-44.9	691.9	666.4	25.42	27.218		
5,035.0	4,943.9	4,988.4	4,940.2	18.7	15.4	150.95	362.8	-45.9	699.5	673.9	25.61	27.319		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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, 7438-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.0	5,007.0	5,051.6	5,002.3	19.0	15.7	150.57	374.7	-47.7	713.8	687.9	25.95	27.504		
5,130.0	5,036.1	5,080.8	5,030.9	19.1	15.9	150.39	380.2	-48.5	720.4	694.3	26.11	27.588		
5,200.0	5,104.0	5,148.9	5,097.8	19.5	16.2	150.00	393.1	-50.4	735.9	709.4	26.49	27.779		
5,225.0	5,128.3	5,173.2	5,121.7	19.6	16.3	149.87	397.7	-51.1	741.4	714.7	26.62	27.846		
5,300.0	5,201.0	5,246.2	5,193.3	19.9	16.6	149.47	411.5	-53.2	757.9	730.9	27.03	28.044		
5,320.0	5,220.4	5,265.7	5,212.4	20.0	16.7	149.37	415.1	-53.7	762.4	735.2	27.14	28.095		
5,400.0	5,298.1	5,343.5	5,288.8	20.4	17.0	148.97	429.8	-55.9	780.1	752.5	27.57	28.298		
5,415.0	5,312.6	5,358.1	5,303.1	20.5	17.1	148.90	432.6	-56.3	783.4	755.8	27.65	28.335		
5,500.0	5,395.1	5,440.8	5,384.3	20.9	17.5	148.50	448.2	-58.6	802.3	774.2	28.11	28.543		
5,510.0	5,404.8	5,450.5	5,393.8	20.9	17.5	148.45	450.0	-58.9	804.5	776.4	28.16	28.566		
5,600.0	5,492.1	5,538.1	5,479.8	21.4	17.9	148.05	466.6	-61.4	824.6	795.9	28.65	28.778		
5,605.0	5,497.0	5,543.0	5,484.6	21.4	17.9	148.03	467.5	-61.5	825.7	797.0	28.68	28.789		
5,700.0	5,589.1	5,635.4	5,575.3	21.8	18.4	147.62	484.9	-64.1	846.9	817.7	29.20	29.004		
5,795.0	5,681.3	5,727.8	5,666.0	22.3	18.8	147.24	502.4	-66.7	868.1	838.4	29.72	29.211		
5,800.0	5,686.2	5,732.7	5,670.8	22.3	18.8	147.22	503.3	-66.9	869.2	839.5	29.75	29.222		
5,890.0	5,773.5	5,820.2	5,756.8	22.8	19.2	146.87	519.8	-69.3	889.4	859.1	30.24	29.413		
5,900.0	5,783.2	5,830.0	5,766.3	22.8	19.2	146.84	521.6	-69.6	891.6	861.3	30.29	29.435		
5,985.0	5,865.7	5,913.1	5,847.9	23.2	19.6	146.53	537.3	-71.9	910.7	879.9	30.75	29.618		
6,000.0	5,880.2	5,927.9	5,862.5	23.3	19.7	146.48	540.0	-72.3	914.0	883.2	30.83	29.646		
6,080.0	5,957.9	6,007.3	5,940.6	23.7	20.0	146.26	553.9	-74.4	931.8	900.6	31.28	29.789		
6,100.0	5,977.3	6,027.2	5,960.2	23.8	20.1	146.22	557.3	-74.9	936.3	904.9	31.39	29.824		
6,175.0	6,050.0	6,101.7	6,033.8	24.1	20.4	146.10	569.1	-76.7	952.9	921.1	31.82	29.945		
6,200.0	6,074.3	6,126.6	6,058.4	24.2	20.6	146.08	572.9	-77.2	958.4	926.4	31.96	29.985		
6,270.0	6,142.2	6,196.3	6,127.3	24.6	20.9	146.04	582.8	-78.7	973.7	941.4	32.36	30.088		
6,299.8	6,171.1	6,225.9	6,156.7	24.7	21.0	146.04	586.8	-79.3	980.2	947.7	32.53	30.131		
6,365.0	6,234.6	6,291.1	6,221.3	25.0	21.3	146.21	594.9	-80.5	993.8	960.9	32.91	30.199		
6,400.0	6,268.8	6,326.1	6,256.1	25.2	21.4	146.29	599.1	-81.1	1,000.6	967.5	33.11	30.220		
6,460.0	6,327.6	6,386.4	6,316.0	25.5	21.6	146.41	605.6	-82.1	1,011.3	977.8	33.44	30.240		
6,500.0	6,366.9	6,426.7	6,356.1	25.7	21.8	146.48	609.7	-82.7	1,017.8	984.1	33.66	30.237		
6,555.0	6,421.2	6,482.3	6,411.4	25.9	22.0	146.56	614.8	-83.5	1,025.9	992.0	33.95	30.219		
6,600.0	6,465.7	6,527.8	6,456.9	26.1	22.2	146.62	618.6	-84.1	1,031.9	997.7	34.18	30.187		
6,650.0	6,515.3	6,578.6	6,507.4	26.4	22.4	146.67	622.4	-84.6	1,037.8	1,003.4	34.43	30.141		
6,700.0	6,564.9	6,629.4	6,558.2	26.6	22.6	146.72	625.8	-85.1	1,043.0	1,008.3	34.68	30.075		
6,745.0	6,609.7	6,675.2	6,603.9	26.8	22.7	146.75	628.5	-85.5	1,046.9	1,012.0	34.89	30.010		
6,800.0	6,664.6	6,731.3	6,659.9	27.0	22.9	146.77	631.2	-85.9	1,050.9	1,015.8	35.14	29.909		
6,840.0	6,704.5	6,772.1	6,700.7	27.1	23.1	146.78	632.9	-86.2	1,053.2	1,017.9	35.30	29.834		
6,900.0	6,764.4	6,833.4	6,762.0	27.3	23.2	146.78	634.9	-86.5	1,055.7	1,020.1	35.55	29.699		
6,935.0	6,799.4	6,869.2	6,797.7	27.4	23.3	146.78	635.8	-86.6	1,056.6	1,021.0	35.64	29.650		
6,999.6	6,864.0	6,935.3	6,863.8	27.5	23.5	74.57	636.7	-86.8	1,057.4	1,021.6	35.80	29.539		
7,030.0	6,894.4	6,966.4	6,894.9	27.5	23.5	74.56	637.0	-86.8	1,057.4	1,021.5	35.83	29.509		
7,100.0	6,964.4	7,036.9	6,965.4	27.5	23.6	74.55	637.0	-86.8	1,057.4	1,021.5	35.91	29.444		
7,125.0	6,989.4	7,061.9	6,990.4	27.5	23.6	74.55	637.0	-86.8	1,057.4	1,021.4	35.94	29.419		
7,200.0	7,064.4	7,136.9	7,065.4	27.6	23.6	74.55	637.0	-86.8	1,057.4	1,021.4	36.03	29.345		
7,220.0	7,084.4	7,156.9	7,085.4	27.6	23.6	74.55	637.0	-86.8	1,057.4	1,021.3	36.06	29.326		
7,300.0	7,164.4	7,236.9	7,165.4	27.6	23.7	74.55	637.0	-86.8	1,057.4	1,021.2	36.15	29.248		
7,315.0	7,179.4	7,251.9	7,180.4	27.6	23.7	74.55	637.0	-86.8	1,057.4	1,021.2	36.17	29.233		
7,400.0	7,264.4	7,336.9	7,265.4	27.6	23.7	74.55	637.0	-86.8	1,057.4	1,021.1	36.27	29.150		
7,410.0	7,274.4	7,346.9	7,275.4	27.6	23.7	74.55	637.0	-86.8	1,057.4	1,021.1	36.29	29.141		
7,500.0	7,364.4	7,436.9	7,365.4	27.7	23.8	74.55	637.0	-86.8	1,057.4	1,021.0	36.37	29.070		
7,505.0	7,369.4	7,446.4	7,374.9	27.7	23.8	74.56	636.9	-86.8	1,057.4	1,021.0	36.39	29.055		
7,600.0	7,464.4	7,531.3	7,465.1	27.7	23.9	76.26	604.5	-87.1	1,052.9	1,016.0	36.86	28.566		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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, 7438-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
7,695.0	7,559.4	7,782.8	7,690.8	27.7	24.1	79.94	536.1	-87.7	1,042.4	1,005.1	37.36	27.898		
7,700.0	7,564.4	7,789.6	7,696.4	27.7	24.1	80.15	532.2	-87.7	1,041.8	1,004.4	37.39	27.860		
7,790.0	7,654.4	7,894.4	7,776.0	27.8	24.2	83.89	464.3	-88.3	1,030.6	992.7	37.89	27.203		
7,800.0	7,664.4	7,904.1	7,782.7	27.8	24.2	84.28	457.3	-88.4	1,029.4	991.5	37.94	27.137		
7,885.0	7,749.4	7,974.4	7,827.7	27.8	24.3	87.30	403.4	-88.8	1,021.2	982.9	38.29	26.672		
7,900.0	7,764.4	7,984.8	7,833.8	27.8	24.3	87.77	395.0	-88.9	1,020.2	981.8	38.34	26.612		
7,980.0	7,844.4	8,032.4	7,859.7	27.8	24.4	90.02	355.0	-89.2	1,016.9	978.4	38.49	26.420		
7,999.1	7,863.5	8,042.1	7,864.5	27.8	24.4	90.50	346.6	-89.3	1,016.7	978.2	38.50	26.408		
8,000.0	7,864.4	8,042.5	7,864.7	27.8	24.4	90.52	346.2	-89.3	1,016.7	978.2	38.50	26.408		
8,075.0	7,939.4	8,075.6	7,880.2	27.8	24.4	92.17	316.9	-89.6	1,018.9	980.5	38.46	26.493		
8,100.0	7,964.4	8,085.2	7,884.3	27.9	24.4	92.65	308.4	-89.7	1,020.7	982.2	38.42	26.569		
8,170.0	8,034.4	8,108.7	7,893.9	27.9	24.4	93.86	286.9	-89.8	1,028.3	990.0	38.22	26.903		
8,200.0	8,064.4	8,117.6	7,897.3	27.9	24.4	94.32	278.7	-89.9	1,032.8	994.7	38.11	27.102		
8,265.0	8,129.4	8,134.7	7,903.5	27.9	24.4	95.21	262.7	-90.0	1,045.1	1,007.3	37.81	27.642		
8,300.0	8,164.4	8,150.0	7,908.6	27.9	24.4	96.02	248.3	-90.2	1,053.3	1,015.5	37.72	27.926		
8,360.0	8,224.4	8,150.0	7,908.6	27.9	24.4	96.02	248.3	-90.2	1,069.5	1,032.3	37.20	28.749		
8,400.0	8,264.4	8,163.1	7,912.7	28.0	24.4	96.72	235.8	-90.3	1,081.9	1,044.8	37.02	29.223		
8,455.0	8,319.4	8,172.6	7,915.4	28.0	24.4	97.22	226.7	-90.4	1,100.9	1,064.4	36.55	30.121		
8,486.6	8,351.0	8,177.6	7,916.8	28.0	24.4	97.49	221.9	-90.4	1,113.0	1,076.7	36.26	30.690		
8,500.0	8,364.4	8,179.8	7,917.4	28.0	24.4	-82.34	219.8	-90.4	1,118.2	1,082.1	36.16	30.920		
8,550.0	8,414.3	8,200.0	7,922.6	28.0	24.5	-79.08	200.3	-90.6	1,138.8	1,102.9	35.92	31.700		
8,600.0	8,463.7	8,200.0	7,922.6	28.0	24.5	-76.78	200.3	-90.6	1,160.1	1,124.7	35.42	32.753		
8,645.0	8,507.4	8,200.0	7,922.6	28.0	24.5	-74.63	200.3	-90.6	1,180.0	1,145.0	34.96	33.749		
8,650.0	8,512.2	8,200.0	7,922.6	28.0	24.5	-74.39	200.3	-90.6	1,182.3	1,147.3	34.91	33.861		
8,700.0	8,559.5	8,222.4	7,927.5	28.0	24.5	-70.99	178.4	-90.8	1,204.6	1,170.0	34.66	34.759		
8,740.0	8,596.2	8,232.9	7,929.5	28.0	24.5	-68.67	168.1	-90.9	1,222.6	1,188.3	34.37	35.573		
8,750.0	8,605.2	8,235.6	7,930.0	28.0	24.5	-68.10	165.5	-90.9	1,227.1	1,192.8	34.30	35.776		
8,800.0	8,649.0	8,250.0	7,932.3	28.0	24.5	-65.26	151.3	-91.0	1,249.5	1,215.6	33.97	36.780		
8,835.0	8,678.3	8,250.0	7,932.3	28.0	24.5	-63.70	151.3	-91.0	1,265.1	1,231.4	33.67	37.574		
8,850.0	8,690.5	8,250.0	7,932.3	28.1	24.5	-63.04	151.3	-91.0	1,271.7	1,238.1	33.54	37.911		
8,900.0	8,729.5	8,279.0	7,936.0	28.1	24.5	-60.06	122.4	-91.3	1,292.9	1,259.5	33.39	38.717		
8,930.0	8,751.5	8,300.0	7,937.8	28.1	24.5	-58.31	101.6	-91.4	1,305.5	1,272.1	33.34	39.160		
8,950.0	8,765.5	8,300.0	7,937.8	28.1	24.5	-57.57	101.6	-91.4	1,313.5	1,280.3	33.20	39.566		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
0.0	0.0	0.0	0.0	3.0	3.0	89.00	2.1	120.0	120.0					
95.0	95.0	92.5	92.5	3.0	3.0	89.00	2.1	120.0	120.0	114.0	6.04	19.887		
100.0	100.0	97.5	97.5	3.0	3.0	89.00	2.1	120.0	120.0	114.0	6.04	19.871		
190.0	190.0	187.5	187.5	3.1	3.1	89.00	2.1	120.0	120.0	113.8	6.25	19.209		
200.0	200.0	197.5	197.5	3.1	3.1	89.00	2.1	120.0	120.0	113.7	6.28	19.105		
285.0	285.0	282.5	282.5	3.3	3.2	89.00	2.1	120.0	120.0	113.5	6.48	18.522		
300.0	300.0	297.5	297.5	3.3	3.3	89.00	2.1	120.0	120.0	113.5	6.52	18.410		
380.0	380.0	377.5	377.5	3.4	3.4	89.00	2.1	120.0	120.0	113.3	6.70	17.916		
400.0	400.0	397.5	397.5	3.4	3.4	89.00	2.1	120.0	120.0	113.3	6.75	17.788		
475.0	475.0	472.5	472.5	3.5	3.5	89.00	2.1	120.0	120.0	113.1	6.91	17.367		
500.0	500.0	497.5	497.5	3.5	3.5	89.00	2.1	120.0	120.0	113.1	6.97	17.225		
570.0	570.0	567.5	567.5	3.6	3.6	89.00	2.1	120.0	120.0	112.9	7.12	16.866		
600.0	600.0	597.5	597.5	3.6	3.6	89.00	2.1	120.0	120.0	112.8	7.18	16.712		
665.0	665.0	662.5	662.5	3.7	3.7	89.00	2.1	120.0	120.0	112.7	7.32	16.406		
700.0	700.0	697.5	697.5	3.8	3.8	89.00	2.1	120.0	120.0	112.6	7.39	16.242		
760.0	760.0	757.5	757.5	3.8	3.8	89.00	2.1	120.0	120.0	112.5	7.51	15.982		
800.0	800.0	797.5	797.5	3.9	3.9	89.00	2.1	120.0	120.0	112.4	7.59	15.810		
855.0	855.0	852.5	852.5	4.0	3.9	89.00	2.1	120.0	120.0	112.3	7.70	15.590		
900.0	900.0	897.5	897.5	4.0	4.0	89.00	2.1	120.0	120.0	112.2	7.79	15.411		
950.0	950.0	947.5	947.5	4.1	4.1	89.00	2.1	120.0	120.0	112.1	7.88	15.225		
1,000.0	1,000.0	997.5	997.5	4.1	4.1	89.00	2.1	120.0	120.0	112.0	7.98	15.040		
1,045.0	1,045.0	1,042.5	1,042.5	4.2	4.2	89.00	2.1	120.0	120.0	112.0	8.06	14.884		
1,100.0	1,100.0	1,097.5	1,097.5	4.2	4.2	89.00	2.1	120.0	120.0	111.9	8.17	14.695		
1,140.0	1,140.0	1,137.5	1,137.5	4.3	4.3	89.00	2.1	120.0	120.0	111.8	8.24	14.565		
1,200.0	1,200.0	1,197.5	1,197.5	4.4	4.4	89.00	2.1	120.0	120.0	111.7	8.35	14.373		
1,235.0	1,235.0	1,232.5	1,232.5	4.4	4.4	89.00	2.1	120.0	120.0	111.6	8.41	14.266		
1,300.0	1,300.0	1,297.5	1,297.5	4.5	4.5	89.00	2.1	120.0	120.0	111.5	8.53	14.071		
1,330.0	1,330.0	1,327.5	1,327.5	4.5	4.5	89.00	2.1	120.0	120.0	111.4	8.58	13.985		
1,400.0	1,400.0	1,397.5	1,397.5	4.6	4.6	89.00	2.1	120.0	120.0	111.3	8.71	13.787		
1,425.0	1,425.0	1,422.5	1,422.5	4.6	4.6	89.00	2.1	120.0	120.0	111.3	8.75	13.720		
1,500.0	1,500.0	1,497.5	1,497.5	4.7	4.7	89.00	2.1	120.0	120.0	111.1	8.88	13.520 CC, ES		
1,520.0	1,520.0	1,516.9	1,516.9	4.7	4.7	161.18	2.1	120.0	120.1	111.2	8.94	13.432		
1,600.0	1,600.0	1,593.9	1,593.9	4.8	4.8	161.08	2.8	121.4	123.1	113.9	9.22	13.351 SF		
1,615.0	1,615.0	1,608.3	1,608.3	4.9	4.9	161.05	3.1	121.8	124.1	114.8	9.29	13.358		
1,700.0	1,699.8	1,689.7	1,689.5	5.0	5.0	160.78	5.1	125.5	132.4	122.7	9.72	13.624		
1,710.0	1,709.8	1,700.0	1,699.8	5.0	5.1	160.74	5.4	126.1	133.7	123.9	9.78	13.677		
1,800.0	1,799.5	1,784.3	1,783.9	5.3	5.3	160.34	8.8	132.4	148.0	137.7	10.24	14.453		
1,805.0	1,804.4	1,789.0	1,788.5	5.3	5.3	160.32	9.1	132.8	148.9	138.6	10.26	14.507		
1,900.0	1,898.7	1,877.3	1,876.3	5.6	5.5	159.84	13.9	141.8	169.6	158.8	10.77	15.750		
1,995.0	1,992.5	1,963.8	1,961.7	5.9	5.8	159.35	20.0	152.9	195.7	184.4	11.29	17.338		
2,000.0	1,997.5	1,968.2	1,966.2	5.9	5.8	159.32	20.3	153.6	197.2	185.9	11.32	17.430		
2,090.0	2,085.8	2,047.9	2,044.5	6.2	6.1	158.86	27.0	165.9	227.0	215.2	11.82	19.214		
2,100.0	2,095.6	2,056.6	2,053.1	6.2	6.1	158.81	27.8	167.4	230.6	218.8	11.87	19.427		
2,185.0	2,178.5	2,129.3	2,124.3	6.5	6.4	158.40	35.0	180.5	263.4	251.1	12.35	21.329		
2,199.8	2,192.9	2,141.8	2,136.4	6.6	6.4	158.33	36.3	182.9	269.5	257.1	12.43	21.678		
2,280.0	2,270.7	2,209.1	2,201.9	6.8	6.7	158.15	43.8	196.7	303.7	290.9	12.85	23.642		
2,300.0	2,290.1	2,227.1	2,219.4	6.9	6.7	158.10	45.8	200.5	312.4	299.4	12.95	24.113		
2,375.0	2,362.9	2,294.7	2,284.9	7.2	6.9	157.92	53.7	214.9	344.9	331.5	13.37	25.794		
2,400.0	2,387.1	2,317.2	2,306.8	7.2	7.0	157.87	56.3	219.7	355.7	342.2	13.51	26.325		
2,470.0	2,455.0	2,380.3	2,368.0	7.5	7.2	157.74	63.5	233.1	386.1	372.2	13.92	27.729		
2,500.0	2,484.1	2,407.3	2,394.2	7.6	7.3	157.69	66.7	238.9	399.1	385.0	14.10	28.302		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	
2,565.0	2,547.2	2,465.9	2,451.1	7.8	7.5	157.59	73.4	251.3	427.3	412.8	14.50	29.468
2,600.0	2,581.2	2,497.4	2,481.7	7.9	7.6	157.54	77.1	258.0	442.4	427.7	14.71	30.068
2,660.0	2,639.4	2,551.5	2,534.1	8.2	7.8	157.47	83.3	269.5	468.5	453.4	15.10	31.030
2,700.0	2,678.2	2,587.5	2,569.1	8.3	7.9	157.42	87.5	277.2	485.8	470.4	15.35	31.643
2,755.0	2,731.6	2,637.1	2,617.2	8.5	8.1	157.36	93.2	287.7	509.6	493.9	15.71	32.435
2,800.0	2,775.2	2,677.6	2,656.5	8.7	8.3	157.32	97.9	296.3	529.2	513.2	16.01	33.053
2,850.0	2,823.8	2,722.7	2,700.2	8.9	8.4	157.28	103.1	305.9	550.8	534.5	16.35	33.699
2,900.0	2,872.3	2,767.8	2,743.9	9.1	8.6	157.24	108.3	315.5	572.5	555.8	16.68	34.314
2,945.0	2,915.9	2,808.3	2,783.3	9.3	8.8	157.20	113.0	324.1	592.0	575.0	16.99	34.838
3,000.0	2,969.3	2,857.9	2,831.4	9.5	9.0	157.16	118.7	334.7	615.9	598.5	17.38	35.446
3,040.0	3,008.1	2,893.9	2,866.3	9.7	9.1	157.14	122.9	342.3	633.2	615.6	17.66	35.866
3,100.0	3,066.3	2,948.0	2,918.8	9.9	9.3	157.10	129.1	353.8	659.2	641.2	18.08	36.464
3,135.0	3,100.3	2,979.5	2,949.4	10.1	9.5	157.08	132.7	360.5	674.4	656.1	18.33	36.795
3,200.0	3,163.4	3,038.1	3,006.2	10.3	9.7	157.05	139.5	373.0	702.6	683.8	18.80	37.381
3,230.0	3,192.5	3,065.1	3,032.5	10.5	9.8	157.03	142.6	378.7	715.6	696.6	19.01	37.637
3,300.0	3,260.4	3,128.2	3,093.7	10.8	10.1	157.00	149.9	392.1	746.0	726.5	19.52	38.209
3,325.0	3,284.7	3,150.7	3,115.5	10.9	10.2	156.98	152.5	396.9	756.8	737.1	19.71	38.402
3,400.0	3,357.4	3,218.3	3,181.1	11.2	10.4	156.95	160.3	411.3	789.3	769.1	20.26	38.958
3,420.0	3,376.8	3,236.3	3,198.6	11.3	10.5	156.94	162.4	415.1	798.0	777.6	20.41	39.099
3,500.0	3,454.5	3,308.4	3,268.5	11.6	10.8	156.91	170.7	430.4	832.7	811.7	21.01	39.639
3,515.0	3,469.0	3,321.9	3,281.6	11.7	10.9	156.91	172.3	433.3	839.2	818.1	21.12	39.735
3,600.0	3,551.5	3,398.5	3,355.9	12.1	11.2	156.88	181.1	449.6	876.1	854.3	21.76	40.258
3,610.0	3,561.2	3,407.5	3,364.7	12.1	11.3	156.88	182.2	451.5	880.4	858.6	21.84	40.316
3,700.0	3,648.5	3,488.6	3,443.4	12.5	11.6	156.85	191.5	468.8	919.4	896.9	22.52	40.822
3,705.0	3,653.4	3,493.1	3,447.7	12.5	11.6	156.84	192.1	469.7	921.6	899.0	22.56	40.849
3,800.0	3,745.6	3,578.7	3,530.8	13.0	12.0	156.82	201.9	487.9	962.8	939.5	23.29	41.338
3,895.0	3,837.7	3,664.3	3,613.9	13.4	12.4	156.79	211.8	506.1	1,004.0	980.0	24.03	41.788
3,900.0	3,842.6	3,668.8	3,618.2	13.4	12.4	156.79	212.3	507.1	1,006.2	982.1	24.06	41.811
3,990.0	3,929.9	3,749.9	3,696.9	13.8	12.8	156.77	221.7	524.3	1,045.2	1,020.4	24.77	42.203
4,000.0	3,939.6	3,758.9	3,705.7	13.9	12.8	156.77	222.7	526.2	1,049.5	1,024.7	24.84	42.245
4,085.0	4,022.1	3,835.5	3,780.0	14.3	13.1	156.75	231.6	542.5	1,086.4	1,060.9	25.51	42.587
4,100.0	4,036.6	3,849.0	3,793.1	14.3	13.2	156.74	233.2	545.4	1,092.9	1,067.3	25.63	42.645
4,180.0	4,114.3	3,921.1	3,863.0	14.7	13.5	156.73	241.5	560.7	1,127.6	1,101.3	26.26	42.943
4,200.0	4,133.7	3,939.1	3,880.5	14.8	13.6	156.72	243.6	564.6	1,136.3	1,109.9	26.42	43.014
4,275.0	4,206.5	4,006.7	3,946.1	15.1	13.9	156.71	251.4	578.9	1,168.8	1,141.8	27.01	43.273
4,300.0	4,230.7	4,029.2	3,968.0	15.3	14.0	156.70	254.0	583.7	1,179.6	1,152.4	27.21	43.355
4,370.0	4,298.6	4,092.3	4,029.2	15.6	14.3	156.69	261.3	597.1	1,210.0	1,182.2	27.77	43.579
4,400.0	4,327.7	4,119.4	4,055.4	15.7	14.4	156.69	264.4	602.9	1,223.0	1,195.0	28.00	43.672
4,465.0	4,390.8	4,177.9	4,112.2	16.0	14.7	156.68	271.1	615.3	1,251.2	1,222.7	28.52	43.864
4,500.0	4,424.8	4,209.5	4,142.8	16.2	14.8	156.67	274.8	622.0	1,266.4	1,237.6	28.80	43.965
4,560.0	4,483.0	4,263.5	4,195.3	16.5	15.1	156.66	281.0	633.5	1,292.4	1,263.1	29.29	44.131
4,600.0	4,521.8	4,299.6	4,230.2	16.6	15.3	156.65	285.2	641.2	1,309.7	1,280.1	29.61	44.238

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
0.0	0.0	0.0	0.0	3.0	3.0	88.98	1.6	90.0	90.0				
95.0	95.0	93.2	93.2	3.0	3.0	88.98	1.6	90.0	90.0	84.0	6.04	14.915	
100.0	100.0	98.2	98.2	3.0	3.0	88.98	1.6	90.0	90.0	84.0	6.04	14.903	
190.0	190.0	188.2	188.2	3.1	3.1	88.98	1.6	90.0	90.0	83.8	6.25	14.404	
200.0	200.0	198.2	198.2	3.1	3.1	88.98	1.6	90.0	90.0	83.7	6.28	14.326	
285.0	285.0	283.2	283.2	3.3	3.2	88.98	1.6	90.0	90.0	83.5	6.48	13.890	
300.0	300.0	298.2	298.2	3.3	3.3	88.98	1.6	90.0	90.0	83.5	6.52	13.806	
380.0	380.0	378.2	378.2	3.4	3.4	88.98	1.6	90.0	90.0	83.3	6.70	13.435	
400.0	400.0	398.2	398.2	3.4	3.4	88.98	1.6	90.0	90.0	83.3	6.75	13.339	
475.0	475.0	473.2	473.2	3.5	3.5	88.98	1.6	90.0	90.0	83.1	6.91	13.024	
500.0	500.0	498.2	498.2	3.5	3.5	88.98	1.6	90.0	90.0	83.0	6.97	12.917	
570.0	570.0	568.2	568.2	3.6	3.6	88.98	1.6	90.0	90.0	82.9	7.12	12.648	
600.0	600.0	598.2	598.2	3.6	3.6	88.98	1.6	90.0	90.0	82.8	7.18	12.532	
665.0	665.0	663.2	663.2	3.7	3.7	88.98	1.6	90.0	90.0	82.7	7.32	12.304	
700.0	700.0	698.2	698.2	3.8	3.8	88.98	1.6	90.0	90.0	82.6	7.39	12.180	
760.0	760.0	758.2	758.2	3.8	3.8	88.98	1.6	90.0	90.0	82.5	7.51	11.986	
800.0	800.0	798.2	798.2	3.9	3.9	88.98	1.6	90.0	90.0	82.4	7.59	11.856	
855.0	855.0	853.2	853.2	4.0	3.9	88.98	1.6	90.0	90.0	82.3	7.70	11.691	
900.0	900.0	898.2	898.2	4.0	4.0	88.98	1.6	90.0	90.0	82.2	7.79	11.557	
950.0	950.0	948.2	948.2	4.1	4.1	88.98	1.6	90.0	90.0	82.1	7.88	11.418	
1,000.0	1,000.0	998.2	998.2	4.1	4.1	88.98	1.6	90.0	90.0	82.0	7.98	11.279	
1,045.0	1,045.0	1,043.2	1,043.2	4.2	4.2	88.98	1.6	90.0	90.0	81.9	8.06	11.162	
1,100.0	1,100.0	1,098.2	1,098.2	4.2	4.2	88.98	1.6	90.0	90.0	81.8	8.17	11.020	
1,140.0	1,140.0	1,138.2	1,138.2	4.3	4.3	88.98	1.6	90.0	90.0	81.8	8.24	10.923	
1,200.0	1,200.0	1,198.2	1,198.2	4.4	4.4	88.98	1.6	90.0	90.0	81.7	8.35	10.779	
1,235.0	1,235.0	1,233.2	1,233.2	4.4	4.4	88.98	1.6	90.0	90.0	81.6	8.41	10.699	
1,300.0	1,300.0	1,298.2	1,298.2	4.5	4.5	88.98	1.6	90.0	90.0	81.5	8.53	10.552	
1,330.0	1,330.0	1,328.2	1,328.2	4.5	4.5	88.98	1.6	90.0	90.0	81.4	8.58	10.488	
1,400.0	1,400.0	1,398.2	1,398.2	4.6	4.6	88.98	1.6	90.0	90.0	81.3	8.71	10.340	
1,425.0	1,425.0	1,423.2	1,423.2	4.6	4.6	88.98	1.6	90.0	90.0	81.3	8.75	10.289	
1,500.0	1,500.0	1,498.2	1,498.2	4.7	4.7	88.98	1.6	90.0	90.0	81.1	8.88	10.139 CC, ES	
1,520.0	1,520.0	1,517.9	1,517.9	4.7	4.8	161.15	1.6	90.0	90.1	81.2	8.94	10.084 SF	
1,600.0	1,600.0	1,596.4	1,596.4	4.8	4.9	160.67	2.9	90.9	92.6	83.4	9.18	10.093	
1,615.0	1,615.0	1,611.1	1,611.0	4.9	4.9	160.52	3.4	91.2	93.5	84.2	9.24	10.113	
1,700.0	1,699.8	1,694.1	1,693.9	5.0	5.1	159.29	7.0	93.7	100.5	90.9	9.64	10.432	
1,710.0	1,709.8	1,703.8	1,703.6	5.0	5.2	159.12	7.6	94.1	101.6	92.0	9.69	10.494	
1,800.0	1,799.5	1,790.9	1,790.4	5.3	5.4	157.39	13.8	98.3	113.8	103.7	10.12	11.254	
1,805.0	1,804.4	1,795.7	1,795.2	5.3	5.4	157.29	14.2	98.6	114.6	104.5	10.14	11.306	
1,900.0	1,898.7	1,886.4	1,885.2	5.6	5.7	155.34	23.1	104.7	132.5	121.9	10.61	12.493	
1,995.0	1,992.5	1,976.5	1,974.3	5.9	5.8	153.51	34.2	112.2	155.1	144.1	11.01	14.096	
2,000.0	1,997.5	1,981.3	1,979.1	5.9	5.9	153.43	34.8	112.6	156.4	145.4	11.03	14.187	
2,090.0	2,085.8	2,067.9	2,064.6	6.2	6.1	152.32	46.0	120.3	181.1	169.6	11.47	15.782	
2,100.0	2,095.6	2,077.4	2,074.0	6.2	6.1	152.24	47.2	121.1	183.9	172.4	11.52	15.962	
2,185.0	2,178.5	2,158.4	2,154.0	6.5	6.3	151.76	57.7	128.3	209.7	197.7	11.98	17.507	
2,199.8	2,192.9	2,172.5	2,167.9	6.6	6.3	151.71	59.5	129.5	214.4	202.3	12.05	17.782	
2,280.0	2,270.7	2,248.5	2,243.0	6.8	6.6	151.74	69.3	136.2	240.0	227.5	12.45	19.269	
2,300.0	2,290.1	2,267.4	2,261.7	6.9	6.6	151.75	71.8	137.9	246.4	233.8	12.55	19.624	
2,375.0	2,362.9	2,338.5	2,331.9	7.2	6.8	151.77	81.0	144.1	270.3	257.4	12.94	20.886	
2,400.0	2,387.1	2,362.2	2,355.3	7.2	6.9	151.78	84.0	146.2	278.3	265.2	13.07	21.289	
2,470.0	2,455.0	2,428.5	2,420.8	7.5	7.1	151.79	92.6	152.1	300.7	287.2	13.45	22.353	
2,500.0	2,484.1	2,457.0	2,448.9	7.6	7.2	151.80	96.3	154.6	310.2	296.6	13.61	22.789	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
2,565.0	2,547.2	2,518.6	2,509.7	7.8	7.4	151.81	104.2	160.0	331.0	317.0	13.98	23.683		
2,600.0	2,581.2	2,551.7	2,542.5	7.9	7.5	151.81	108.5	162.9	342.2	328.0	14.17	24.143		
2,660.0	2,639.4	2,608.6	2,598.6	8.2	7.7	151.82	115.9	167.9	361.3	346.8	14.52	24.889		
2,700.0	2,678.2	2,646.5	2,636.1	8.3	7.9	151.83	120.8	171.3	374.1	359.4	14.75	25.364		
2,755.0	2,731.6	2,698.6	2,687.5	8.5	8.0	151.83	127.5	175.9	391.7	376.6	15.07	25.984		
2,800.0	2,775.2	2,741.2	2,729.7	8.7	8.2	151.84	133.0	179.6	406.1	390.7	15.34	26.468		
2,850.0	2,823.8	2,788.6	2,776.5	8.9	8.4	151.85	139.1	183.8	422.0	406.4	15.64	26.978		
2,900.0	2,872.3	2,836.0	2,823.2	9.1	8.5	151.85	145.3	188.0	438.0	422.0	15.95	27.466		
2,945.0	2,915.9	2,878.7	2,865.4	9.3	8.7	151.85	150.8	191.7	452.4	436.1	16.22	27.883		
3,000.0	2,969.3	2,930.8	2,916.8	9.5	8.9	151.86	157.5	196.3	469.9	453.4	16.56	28.371		
3,040.0	3,008.1	2,968.7	2,954.3	9.7	9.0	151.86	162.4	199.7	482.7	465.9	16.81	28.708		
3,100.0	3,066.3	3,025.5	3,010.4	9.9	9.2	151.87	169.8	204.7	501.9	484.7	17.19	29.193		
3,135.0	3,100.3	3,058.7	3,043.2	10.1	9.4	151.87	174.1	207.6	513.0	495.6	17.41	29.462		
3,200.0	3,163.4	3,120.3	3,104.0	10.3	9.6	151.87	182.0	213.0	533.8	516.0	17.83	29.941		
3,230.0	3,192.5	3,148.7	3,132.1	10.5	9.7	151.88	185.7	215.6	543.4	525.4	18.02	30.152		
3,300.0	3,260.4	3,215.1	3,197.6	10.8	10.0	151.88	194.3	221.4	565.7	547.3	18.47	30.624		
3,325.0	3,284.7	3,238.8	3,221.0	10.9	10.1	151.88	197.3	223.5	573.7	555.1	18.64	30.784		
3,400.0	3,357.4	3,309.8	3,291.2	11.2	10.3	151.88	206.5	229.8	597.7	578.6	19.13	31.248		
3,420.0	3,376.8	3,328.8	3,309.9	11.3	10.4	151.89	209.0	231.4	604.1	584.8	19.26	31.366		
3,500.0	3,454.5	3,404.6	3,384.8	11.6	10.7	151.89	218.8	238.1	629.6	609.8	19.79	31.820		
3,515.0	3,469.0	3,418.8	3,398.9	11.7	10.8	151.89	220.6	239.4	634.4	614.5	19.89	31.901		
3,600.0	3,551.5	3,499.3	3,478.4	12.1	11.1	151.89	231.0	246.5	661.6	641.1	20.45	32.345		
3,610.0	3,561.2	3,508.8	3,487.8	12.1	11.1	151.89	232.2	247.3	664.8	644.2	20.52	32.395		
3,700.0	3,648.5	3,594.1	3,572.0	12.5	11.5	151.90	243.3	254.8	693.5	672.4	21.13	32.828		
3,705.0	3,653.4	3,598.8	3,576.7	12.5	11.5	151.90	243.9	255.2	695.1	673.9	21.16	32.851		
3,800.0	3,745.6	3,688.9	3,665.6	13.0	11.9	151.90	255.5	263.2	725.4	703.6	21.80	33.274		
3,895.0	3,837.7	3,778.9	3,754.5	13.4	12.2	151.90	267.1	271.1	755.8	733.3	22.45	33.666		
3,900.0	3,842.6	3,783.6	3,759.2	13.4	12.3	151.91	267.8	271.5	757.4	734.9	22.48	33.685		
3,990.0	3,929.9	3,868.9	3,843.4	13.8	12.6	151.91	278.8	279.0	786.1	763.0	23.10	34.030		
4,000.0	3,939.6	3,878.4	3,852.8	13.9	12.6	151.91	280.0	279.9	789.3	766.1	23.17	34.067		
4,085.0	4,022.1	3,958.9	3,932.4	14.3	13.0	151.91	290.4	287.0	816.5	792.7	23.76	34.369		
4,100.0	4,036.6	3,973.2	3,946.4	14.3	13.0	151.91	292.3	288.2	821.2	797.4	23.86	34.421		
4,180.0	4,114.3	4,049.0	4,021.3	14.7	13.3	151.91	302.1	294.9	846.8	822.4	24.41	34.686		
4,200.0	4,133.7	4,067.9	4,040.0	14.8	13.4	151.91	304.5	296.6	853.2	828.6	24.55	34.750		
4,275.0	4,206.5	4,139.0	4,110.2	15.1	13.7	151.92	313.7	302.9	877.1	852.1	25.07	34.982		
4,300.0	4,230.7	4,162.7	4,133.6	15.3	13.8	151.92	316.8	304.9	885.1	859.9	25.25	35.056		
4,370.0	4,298.6	4,231.3	4,201.4	15.6	14.1	151.92	325.6	311.0	907.5	881.7	25.75	35.247		
4,400.0	4,327.7	4,263.3	4,233.0	15.7	14.2	151.93	329.6	313.7	916.9	890.9	25.98	35.298		
4,465.0	4,390.8	4,332.8	4,301.8	16.0	14.5	151.98	337.7	319.2	937.0	910.5	26.48	35.390		
4,500.0	4,424.8	4,370.4	4,339.1	16.2	14.7	152.02	341.8	322.0	947.6	920.9	26.75	35.429		
4,560.0	4,483.0	4,435.1	4,403.3	16.5	14.9	152.12	348.4	326.5	965.5	938.3	27.21	35.485		
4,600.0	4,521.8	4,478.4	4,446.3	16.6	15.1	152.20	352.4	329.3	977.1	949.6	27.51	35.515		
4,655.0	4,575.2	4,538.1	4,505.7	16.9	15.3	152.33	357.6	332.8	992.8	964.9	27.93	35.547		
4,700.0	4,618.8	4,587.1	4,554.5	17.1	15.5	152.46	361.5	335.4	1,005.4	977.1	28.27	35.566		
4,750.0	4,667.4	4,641.7	4,608.9	17.3	15.7	152.61	365.4	338.1	1,019.1	990.4	28.64	35.583		
4,800.0	4,715.9	4,696.5	4,663.5	17.6	15.9	152.79	368.9	340.5	1,032.4	1,003.4	29.01	35.590		
4,845.0	4,759.5	4,745.9	4,712.8	17.8	16.1	152.96	371.6	342.4	1,044.2	1,014.9	29.34	35.596		
4,900.0	4,812.9	4,806.5	4,773.3	18.0	16.3	153.19	374.5	344.4	1,058.3	1,028.5	29.73	35.594		
4,940.0	4,851.7	4,850.6	4,817.4	18.2	16.4	153.37	376.3	345.6	1,068.3	1,038.2	30.01	35.593		
5,000.0	4,909.9	4,917.0	4,883.7	18.5	16.7	153.65	378.5	347.1	1,082.9	1,052.4	30.43	35.585		
5,035.0	4,943.9	4,955.8	4,922.4	18.7	16.8	153.83	379.5	347.7	1,091.2	1,060.5	30.67	35.582		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Offset Wellbore Centre			Distance			Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,100.0	5,007.0	5,028.0	4,994.6	19.0	17.0	154.18	380.7	348.6	1,106.3	1,075.2	31.09	35.579			
5,130.0	5,036.1	5,061.4	5,028.0	19.1	17.0	154.35	381.0	348.8	1,113.1	1,081.8	31.28	35.582			
5,200.0	5,104.0	5,135.6	5,102.2	19.5	17.2	154.75	381.2	348.9	1,128.6	1,096.9	31.67	35.636			
5,225.0	5,128.3	5,159.8	5,126.5	19.6	17.2	154.88	381.2	348.9	1,134.1	1,102.3	31.79	35.676			
5,300.0	5,201.0	5,232.6	5,199.2	19.9	17.2	155.26	381.2	348.9	1,150.6	1,118.5	32.15	35.791			
5,320.0	5,220.4	5,252.0	5,218.6	20.0	17.2	155.36	381.2	348.9	1,155.0	1,122.8	32.25	35.820			
5,400.0	5,298.1	5,329.6	5,296.3	20.4	17.3	155.75	381.2	348.9	1,172.7	1,140.1	32.64	35.934			
5,415.0	5,312.6	5,344.2	5,310.8	20.5	17.3	155.82	381.2	348.9	1,176.1	1,143.4	32.71	35.955			
5,500.0	5,395.1	5,426.7	5,393.3	20.9	17.3	156.23	381.2	348.9	1,194.9	1,161.8	33.13	36.071			
5,510.0	5,404.8	5,436.4	5,403.0	20.9	17.3	156.27	381.2	348.9	1,197.2	1,164.0	33.18	36.085			
5,600.0	5,492.1	5,523.7	5,490.3	21.4	17.4	156.68	381.2	348.9	1,217.2	1,183.6	33.62	36.203			
5,605.0	5,497.0	5,528.6	5,495.2	21.4	17.4	156.70	381.2	348.9	1,218.3	1,184.7	33.65	36.209			
5,700.0	5,589.1	5,620.7	5,587.3	21.8	17.4	157.12	381.2	348.9	1,239.6	1,205.4	34.12	36.329			
5,795.0	5,681.3	5,712.9	5,679.5	22.3	17.5	157.53	381.2	348.9	1,260.9	1,226.3	34.60	36.443			
5,800.0	5,686.2	5,717.8	5,684.4	22.3	17.5	157.55	381.2	348.9	1,262.0	1,227.4	34.62	36.449			
5,890.0	5,773.5	5,805.1	5,771.7	22.8	17.5	157.92	381.2	348.9	1,282.2	1,247.1	35.08	36.554			
5,900.0	5,783.2	5,814.8	5,781.4	22.8	17.5	157.96	381.2	348.9	1,284.5	1,249.3	35.13	36.565			
5,985.0	5,865.7	5,897.3	5,863.9	23.2	17.6	158.30	381.2	348.9	1,303.6	1,268.1	35.56	36.660			
6,000.0	5,880.2	5,911.8	5,878.4	23.3	17.6	158.35	381.2	348.9	1,307.0	1,271.4	35.64	36.677			

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 (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)				
0.0	0.0	0.0	0.0	3.0	3.0	88.95	1.1	60.0	60.0					
95.0	95.0	93.9	93.9	3.0	3.0	88.95	1.1	60.0	60.0	54.0	6.04	9.943		
100.0	100.0	98.9	98.9	3.0	3.0	88.95	1.1	60.0	60.0	54.0	6.04	9.935		
190.0	190.0	188.9	188.9	3.1	3.1	88.95	1.1	60.0	60.0	53.8	6.25	9.601		
200.0	200.0	198.9	198.9	3.1	3.1	88.95	1.1	60.0	60.0	53.7	6.28	9.549		
285.0	285.0	283.9	283.9	3.3	3.2	88.95	1.1	60.0	60.0	53.5	6.48	9.259		
300.0	300.0	298.9	298.9	3.3	3.3	88.95	1.1	60.0	60.0	53.5	6.52	9.203		
380.0	380.0	378.9	378.9	3.4	3.4	88.95	1.1	60.0	60.0	53.3	6.70	8.956		
400.0	400.0	398.9	398.9	3.4	3.4	88.95	1.1	60.0	60.0	53.3	6.75	8.892		
475.0	475.0	473.9	473.9	3.5	3.5	88.95	1.1	60.0	60.0	53.1	6.91	8.682		
500.0	500.0	498.9	498.9	3.5	3.5	88.95	1.1	60.0	60.0	53.0	6.97	8.610		
570.0	570.0	568.9	568.9	3.6	3.6	88.95	1.1	60.0	60.0	52.9	7.12	8.431		
600.0	600.0	598.9	598.9	3.6	3.6	88.95	1.1	60.0	60.0	52.8	7.18	8.354		
665.0	665.0	663.9	663.9	3.7	3.7	88.95	1.1	60.0	60.0	52.7	7.32	8.202		
700.0	700.0	698.9	698.9	3.8	3.8	88.95	1.1	60.0	60.0	52.6	7.39	8.120		
760.0	760.0	758.9	758.9	3.8	3.8	88.95	1.1	60.0	60.0	52.5	7.51	7.990		
800.0	800.0	798.9	798.9	3.9	3.9	88.95	1.1	60.0	60.0	52.4	7.59	7.904		
855.0	855.0	853.9	853.9	4.0	3.9	88.95	1.1	60.0	60.0	52.3	7.70	7.794		
900.0	900.0	898.9	898.9	4.0	4.0	88.95	1.1	60.0	60.0	52.2	7.79	7.704		
950.0	950.0	948.9	948.9	4.1	4.1	88.95	1.1	60.0	60.0	52.1	7.88	7.611		
1,000.0	1,000.0	998.9	998.9	4.1	4.1	88.95	1.1	60.0	60.0	52.0	7.98	7.519		
1,045.0	1,045.0	1,043.9	1,043.9	4.2	4.2	88.95	1.1	60.0	60.0	51.9	8.06	7.441		
1,100.0	1,100.0	1,098.9	1,098.9	4.2	4.2	88.95	1.1	60.0	60.0	51.8	8.17	7.346		
1,140.0	1,140.0	1,138.9	1,138.9	4.3	4.3	88.95	1.1	60.0	60.0	51.8	8.24	7.282		
1,200.0	1,200.0	1,198.9	1,198.9	4.4	4.4	88.95	1.1	60.0	60.0	51.7	8.35	7.185		
1,235.0	1,235.0	1,233.9	1,233.9	4.4	4.4	88.95	1.1	60.0	60.0	51.6	8.41	7.132		
1,300.0	1,300.0	1,298.9	1,298.9	4.5	4.5	88.95	1.1	60.0	60.0	51.5	8.53	7.034		
1,330.0	1,330.0	1,328.9	1,328.9	4.5	4.5	88.95	1.1	60.0	60.0	51.4	8.58	6.992		
1,400.0	1,400.0	1,398.9	1,398.9	4.6	4.6	88.95	1.1	60.0	60.0	51.3	8.71	6.893		
1,425.0	1,425.0	1,423.9	1,423.9	4.6	4.6	88.95	1.1	60.0	60.0	51.3	8.75	6.859		
1,500.0	1,500.0	1,498.9	1,498.9	4.7	4.7	88.95	1.1	60.0	60.0	51.1	8.88	6.759 CC		
1,520.0	1,520.0	1,519.1	1,519.1	4.7	4.8	161.10	1.2	60.0	60.0	51.1	8.94	6.720 ES		
1,600.0	1,600.0	1,599.8	1,599.8	4.8	4.9	160.20	2.6	59.2	60.9	51.7	9.16	6.645		
1,615.0	1,615.0	1,615.0	1,614.9	4.9	4.9	159.90	3.1	58.9	61.2	51.9	9.23	6.629		
1,700.0	1,699.8	1,700.7	1,700.5	5.0	5.2	157.51	7.3	56.7	63.6	54.0	9.60	6.624		
1,710.0	1,709.8	1,710.7	1,710.5	5.0	5.2	157.16	8.0	56.4	64.0	54.3	9.64	6.634		
1,800.0	1,799.5	1,801.3	1,800.7	5.3	5.4	153.49	15.1	52.6	68.4	58.3	10.03	6.819		
1,805.0	1,804.4	1,806.3	1,805.7	5.3	5.5	153.26	15.6	52.4	68.7	58.6	10.05	6.834		
1,900.0	1,898.7	1,901.6	1,900.3	5.6	5.7	148.74	26.0	46.9	75.5	65.1	10.44	7.234		
1,995.0	1,992.5	1,996.1	1,993.8	5.9	5.9	144.68	38.2	40.4	84.9	74.1	10.76	7.887		
2,000.0	1,997.5	2,001.1	1,998.7	5.9	5.9	144.52	38.9	40.1	85.4	74.7	10.78	7.926		
2,090.0	2,085.8	2,090.3	2,086.9	6.2	6.1	142.48	50.5	33.9	97.0	85.8	11.16	8.693		
2,100.0	2,095.6	2,100.2	2,096.7	6.2	6.2	142.34	51.8	33.2	98.4	87.2	11.20	8.787		
2,185.0	2,178.5	2,184.1	2,179.7	6.5	6.4	141.73	62.8	27.4	111.7	100.1	11.58	9.642		
2,199.8	2,192.9	2,198.7	2,194.1	6.6	6.4	141.72	64.7	26.4	114.2	102.5	11.65	9.801		
2,280.0	2,270.7	2,277.7	2,272.3	6.8	6.7	141.84	75.0	21.0	127.9	115.9	11.99	10.669		
2,300.0	2,290.1	2,297.4	2,291.8	6.9	6.7	141.87	77.6	19.6	131.3	119.3	12.07	10.877		
2,375.0	2,362.9	2,371.3	2,364.9	7.2	7.0	141.96	87.3	14.5	144.2	131.8	12.40	11.625		
2,400.0	2,387.1	2,395.9	2,389.2	7.2	7.0	141.99	90.5	12.8	148.5	136.0	12.51	11.865		
2,470.0	2,455.0	2,464.9	2,457.4	7.5	7.3	142.05	99.5	8.0	160.5	147.6	12.83	12.507		
2,500.0	2,484.1	2,494.5	2,486.7	7.6	7.4	142.08	103.4	6.0	165.6	152.6	12.97	12.772		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Ellipses (usft)	Minimum Separation (usft)	Factor		
2,565.0	2,547.2	2,558.5	2,550.0	7.8	7.6	142.13	111.8	1.6	176.7	163.5	13.27	13.321		
2,600.0	2,581.2	2,593.0	2,584.1	7.9	7.7	142.16	116.3	-0.8	182.7	169.3	13.43	13.606		
2,660.0	2,639.4	2,652.1	2,642.6	8.2	7.9	142.20	124.0	-4.9	193.0	179.3	13.72	14.072		
2,700.0	2,678.2	2,691.5	2,681.5	8.3	8.0	142.22	129.1	-7.6	199.9	186.0	13.91	14.372		
2,755.0	2,731.6	2,745.7	2,735.1	8.5	8.2	142.25	136.2	-11.3	209.3	195.1	14.17	14.766		
2,800.0	2,775.2	2,790.0	2,779.0	8.7	8.4	142.27	142.0	-14.4	217.0	202.6	14.39	15.077		
2,850.0	2,823.8	2,839.3	2,827.7	8.9	8.5	142.30	148.5	-17.8	225.6	210.9	14.64	15.408		
2,900.0	2,872.3	2,888.6	2,876.4	9.1	8.7	142.32	154.9	-21.2	234.1	219.2	14.89	15.728		
2,945.0	2,915.9	2,932.9	2,920.3	9.3	8.9	142.34	160.7	-24.2	241.8	226.7	15.11	16.003		
3,000.0	2,969.3	2,987.1	2,973.8	9.5	9.1	142.36	167.8	-28.0	251.3	235.9	15.39	16.328		
3,040.0	3,008.1	3,026.5	3,012.8	9.7	9.2	142.37	172.9	-30.7	258.1	242.5	15.59	16.555		
3,100.0	3,066.3	3,085.6	3,071.3	9.9	9.5	142.39	180.7	-34.8	268.4	252.5	15.90	16.884		
3,135.0	3,100.3	3,120.1	3,105.4	10.1	9.6	142.40	185.2	-37.2	274.4	258.3	16.08	17.068		
3,200.0	3,163.4	3,184.1	3,168.7	10.3	9.8	142.42	193.6	-41.6	285.5	269.1	16.41	17.398		
3,230.0	3,192.5	3,213.7	3,198.0	10.5	9.9	142.43	197.4	-43.6	290.7	274.1	16.57	17.545		
3,300.0	3,260.4	3,282.6	3,266.2	10.8	10.2	142.45	206.4	-48.4	302.6	285.7	16.93	17.876		
3,325.0	3,284.7	3,307.3	3,290.5	10.9	10.3	142.45	209.7	-50.1	306.9	289.9	17.06	17.990		
3,400.0	3,357.4	3,381.2	3,363.6	11.2	10.6	142.47	219.3	-55.2	319.8	302.3	17.46	18.320		
3,420.0	3,376.8	3,400.9	3,383.1	11.3	10.7	142.48	221.9	-56.5	323.2	305.6	17.56	18.405		
3,500.0	3,454.5	3,479.7	3,461.0	11.6	11.0	142.49	232.2	-62.0	336.9	318.9	17.98	18.734		
3,515.0	3,469.0	3,494.5	3,475.7	11.7	11.0	142.50	234.1	-63.0	339.5	321.4	18.06	18.793		
3,600.0	3,551.5	3,578.2	3,558.5	12.1	11.4	142.51	245.1	-68.8	354.0	335.5	18.52	19.120		
3,610.0	3,561.2	3,588.1	3,568.2	12.1	11.4	142.51	246.4	-69.5	355.8	337.2	18.57	19.157		
3,700.0	3,648.5	3,676.7	3,655.9	12.5	11.8	142.53	258.0	-75.6	371.2	352.1	19.05	19.481		
3,705.0	3,653.4	3,681.7	3,660.8	12.5	11.8	142.53	258.6	-75.9	372.0	353.0	19.08	19.498		
3,800.0	3,745.6	3,775.2	3,753.4	13.0	12.2	142.55	270.8	-82.4	388.3	368.7	19.59	19.819		
3,895.0	3,837.7	3,868.8	3,845.9	13.4	12.5	142.56	283.1	-88.8	404.6	384.5	20.11	20.120		
3,900.0	3,842.6	3,873.8	3,850.8	13.4	12.6	142.56	283.7	-89.2	405.4	385.3	20.14	20.136		
3,990.0	3,929.9	3,962.4	3,938.5	13.8	12.9	142.57	295.3	-95.3	420.9	400.2	20.63	20.405		
4,000.0	3,939.6	3,972.3	3,948.2	13.9	13.0	142.57	296.6	-96.0	422.6	401.9	20.68	20.434		
4,085.0	4,022.1	4,056.0	4,031.1	14.3	13.3	142.58	307.5	-101.8	437.1	416.0	21.15	20.673		
4,100.0	4,036.6	4,070.8	4,045.7	14.3	13.4	142.59	309.5	-102.8	439.7	418.5	21.23	20.714		
4,180.0	4,114.3	4,149.4	4,123.4	14.7	13.7	142.60	319.7	-108.2	453.4	431.8	21.64	20.952		
4,200.0	4,133.7	4,168.8	4,142.6	14.8	13.7	142.62	322.2	-109.5	456.9	435.1	21.75	21.010		
4,275.0	4,206.5	4,241.7	4,214.9	15.1	14.0	142.74	330.8	-114.1	469.9	447.7	22.16	21.207		
4,300.0	4,230.7	4,266.0	4,239.0	15.3	14.1	142.81	333.5	-115.5	474.2	451.9	22.30	21.267		
4,370.0	4,298.6	4,334.0	4,306.5	15.6	14.4	143.05	340.6	-119.2	486.6	463.9	22.70	21.430		
4,400.0	4,327.7	4,363.1	4,335.4	15.7	14.5	143.18	343.5	-120.7	491.9	469.0	22.88	21.497		
4,465.0	4,390.8	4,426.1	4,398.0	16.0	14.7	143.51	349.1	-123.7	503.5	480.3	23.27	21.637		
4,500.0	4,424.8	4,459.9	4,431.7	16.2	14.9	143.71	351.9	-125.2	509.9	486.4	23.48	21.710		
4,560.0	4,483.0	4,517.9	4,489.5	16.5	15.1	144.10	356.3	-127.5	520.8	496.9	23.86	21.830		
4,600.0	4,521.8	4,556.4	4,527.9	16.6	15.2	144.38	358.9	-128.9	528.2	504.1	24.11	21.908		
4,655.0	4,575.2	4,609.4	4,580.8	16.9	15.4	144.81	362.1	-130.6	538.4	513.9	24.46	22.012		
4,700.0	4,618.8	4,652.7	4,623.9	17.1	15.6	145.18	364.4	-131.8	546.9	522.1	24.75	22.095		
4,750.0	4,667.4	4,700.0	4,671.2	17.3	15.7	145.61	366.6	-133.0	556.4	531.3	25.08	22.188		
4,800.0	4,715.9	4,748.5	4,719.7	17.6	15.9	146.08	368.5	-134.0	566.0	540.6	25.41	22.273		
4,845.0	4,759.5	4,791.5	4,762.6	17.8	16.0	146.51	369.9	-134.7	574.8	549.1	25.72	22.351		
4,900.0	4,812.9	4,843.9	4,815.0	18.0	16.2	147.07	371.2	-135.4	585.7	559.6	26.09	22.447		
4,940.0	4,851.7	4,881.9	4,853.0	18.2	16.3	147.49	371.9	-135.7	593.7	567.3	26.37	22.516		
5,000.0	4,909.9	4,938.7	4,909.9	18.5	16.4	148.14	372.5	-136.0	605.9	579.2	26.78	22.630		
5,035.0	4,943.9	4,971.8	4,943.0	18.7	16.4	148.53	372.6	-136.1	613.2	586.1	27.01	22.700		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,100.0	5,007.0	5,034.7	5,005.9	19.0	16.5	149.27	372.6	-136.1	626.7	599.3	27.45	22.828	
5,130.0	5,036.1	5,063.8	5,035.0	19.1	16.5	149.61	372.6	-136.1	633.0	605.4	27.67	22.881	
5,200.0	5,104.0	5,131.8	5,102.9	19.5	16.5	150.36	372.6	-136.1	647.8	619.6	28.16	23.007	
5,225.0	5,128.3	5,156.0	5,127.2	19.6	16.5	150.62	372.6	-136.1	653.1	624.8	28.33	23.052	
5,300.0	5,201.0	5,228.8	5,199.9	19.9	16.6	151.38	372.6	-136.1	669.1	640.2	28.85	23.189	
5,320.0	5,220.4	5,248.2	5,219.3	20.0	16.6	151.57	372.6	-136.1	673.3	644.3	28.99	23.226	
5,400.0	5,298.1	5,325.8	5,297.0	20.4	16.6	152.33	372.6	-136.1	690.5	661.0	29.54	23.373	
5,415.0	5,312.6	5,340.4	5,311.5	20.5	16.6	152.47	372.6	-136.1	693.8	664.1	29.65	23.401	
5,500.0	5,395.1	5,422.9	5,394.0	20.9	16.7	153.23	372.6	-136.1	712.2	681.9	30.23	23.559	
5,510.0	5,404.8	5,432.6	5,403.7	20.9	16.7	153.32	372.6	-136.1	714.3	684.0	30.30	23.578	
5,600.0	5,492.1	5,519.9	5,491.0	21.4	16.7	154.08	372.6	-136.1	734.0	703.1	30.91	23.746	
5,605.0	5,497.0	5,524.7	5,495.9	21.4	16.7	154.12	372.6	-136.1	735.1	704.1	30.94	23.756	
5,700.0	5,589.1	5,616.9	5,588.0	21.8	16.8	154.87	372.6	-136.1	755.9	724.3	31.58	23.934	
5,795.0	5,681.3	5,709.1	5,680.2	22.3	16.8	155.59	372.6	-136.1	776.9	744.7	32.22	24.112	
5,800.0	5,686.2	5,714.0	5,685.1	22.3	16.9	155.63	372.6	-136.1	778.0	745.7	32.25	24.121	
5,890.0	5,773.5	5,801.3	5,772.4	22.8	16.9	156.27	372.6	-136.1	798.0	765.1	32.85	24.290	
5,900.0	5,783.2	5,811.0	5,782.1	22.8	16.9	156.34	372.6	-136.1	800.2	767.3	32.92	24.309	
5,985.0	5,865.7	5,893.5	5,864.6	23.2	17.0	156.91	372.6	-136.1	819.1	785.7	33.48	24.468	
6,000.0	5,880.2	5,908.0	5,879.1	23.3	17.0	157.01	372.6	-136.1	822.5	788.9	33.58	24.496	
6,080.0	5,957.9	5,985.6	5,956.8	23.7	17.0	157.52	372.6	-136.1	840.4	806.3	34.10	24.645	
6,100.0	5,977.3	6,005.1	5,976.2	23.8	17.0	157.65	372.6	-136.1	844.9	810.7	34.23	24.682	
6,175.0	6,050.0	6,077.8	6,048.9	24.1	17.1	158.11	372.6	-136.1	861.8	827.1	34.72	24.821	
6,200.0	6,074.3	6,102.1	6,073.2	24.2	17.1	158.25	372.6	-136.1	867.4	832.5	34.88	24.867	
6,270.0	6,142.2	6,170.0	6,141.1	24.6	17.1	158.66	372.6	-136.1	883.2	847.9	35.34	24.995	
6,299.8	6,171.1	6,198.9	6,170.0	24.7	17.1	158.83	372.6	-136.1	890.0	854.5	35.53	25.050	
6,365.0	6,234.6	6,262.4	6,233.5	25.0	17.2	159.27	372.6	-136.1	904.1	868.1	35.95	25.148	
6,400.0	6,268.8	6,296.6	6,267.7	25.2	17.2	159.49	372.6	-136.1	911.1	874.9	36.17	25.186	
6,460.0	6,327.6	6,355.4	6,326.5	25.5	17.2	159.83	372.6	-136.1	922.2	885.7	36.54	25.237	
6,500.0	6,366.9	6,394.7	6,365.8	25.7	17.3	160.03	372.6	-136.1	929.0	892.2	36.79	25.255	
6,555.0	6,421.2	6,449.0	6,420.1	25.9	17.3	160.27	372.6	-136.1	937.5	900.4	37.11	25.267	
6,600.0	6,465.7	6,493.5	6,464.6	26.1	17.3	160.45	372.6	-136.1	943.8	906.4	37.36	25.259	
6,650.0	6,515.3	6,543.0	6,514.2	26.4	17.3	160.62	372.6	-136.1	949.9	912.3	37.63	25.241	
6,700.0	6,564.9	6,592.7	6,563.8	26.6	17.4	160.77	372.6	-136.1	955.3	917.4	37.90	25.204	
6,745.0	6,609.7	6,637.5	6,608.6	26.8	17.4	160.88	372.6	-136.1	959.4	921.2	38.13	25.163	
6,800.0	6,664.6	6,692.3	6,663.5	27.0	17.4	160.99	372.6	-136.1	963.5	925.1	38.40	25.093	
6,840.0	6,704.5	6,732.3	6,703.4	27.1	17.5	161.06	372.6	-136.1	965.8	927.3	38.57	25.040	
6,900.0	6,764.4	6,792.2	6,763.3	27.3	17.5	161.13	372.6	-136.1	968.4	929.6	38.83	24.938	
6,935.0	6,799.4	6,827.2	6,798.3	27.4	17.5	161.15	372.6	-136.1	969.4	930.4	38.92	24.905	
6,999.6	6,864.0	6,891.8	6,862.9	27.5	17.5	88.98	372.6	-136.1	970.1	931.0	39.08	24.820	
7,030.0	6,894.4	6,922.2	6,893.3	27.5	17.6	88.98	372.6	-136.1	970.1	930.9	39.12	24.799	
7,100.0	6,964.4	6,992.2	6,963.3	27.5	17.6	88.98	372.6	-136.1	970.1	930.9	39.20	24.749	
7,125.0	6,989.4	7,017.2	6,988.3	27.5	17.6	88.98	372.6	-136.1	970.1	930.8	39.22	24.731	
7,200.0	7,064.4	7,092.2	7,063.3	27.6	17.7	88.98	372.6	-136.1	970.1	930.7	39.31	24.678	
7,220.0	7,084.4	7,112.2	7,083.3	27.6	17.7	88.98	372.6	-136.1	970.1	930.7	39.33	24.664	
7,300.0	7,164.4	7,192.2	7,163.3	27.6	17.7	88.98	372.6	-136.1	970.1	930.6	39.42	24.607	
7,315.0	7,179.4	7,207.2	7,178.3	27.6	17.7	88.98	372.6	-136.1	970.1	930.6	39.44	24.597	
7,400.0	7,264.4	7,292.2	7,263.3	27.6	17.8	88.98	372.6	-136.1	970.1	930.5	39.53	24.537	
7,410.0	7,274.4	7,302.2	7,273.3	27.6	17.8	88.98	372.6	-136.1	970.1	930.5	39.55	24.530	
7,500.0	7,364.4	7,392.2	7,363.3	27.7	17.9	88.98	372.6	-136.1	970.1	930.4	39.65	24.467	
7,505.0	7,369.4	7,397.2	7,368.3	27.7	17.9	88.98	372.6	-136.1	970.1	930.4	39.65	24.463	
7,600.0	7,464.4	7,492.2	7,463.3	27.7	17.9	88.98	372.6	-136.1	970.1	930.3	39.76	24.397	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,695.0	7,559.4	7,587.2	7,558.3	27.7	18.0	88.98	372.6	-136.1	970.1	930.2	39.87	24.331		
7,700.0	7,564.4	7,592.2	7,563.3	27.7	18.0	88.98	372.6	-136.1	970.1	930.2	39.88	24.327		
7,790.0	7,654.4	7,682.2	7,653.3	27.8	18.0	88.98	372.6	-136.1	970.1	930.1	39.98	24.265		
7,800.0	7,664.4	7,692.2	7,663.3	27.8	18.0	88.98	372.6	-136.1	970.1	930.1	39.99	24.258		
7,885.0	7,749.4	7,777.2	7,748.3	27.8	18.1	88.98	372.6	-136.1	970.1	930.0	40.09	24.199		
7,900.0	7,764.4	7,792.2	7,763.3	27.8	18.1	88.98	372.6	-136.1	970.1	929.9	40.10	24.189		
7,980.0	7,844.4	7,872.2	7,843.3	27.8	18.1	88.98	372.6	-136.1	970.1	929.9	40.19	24.134		
8,000.0	7,864.4	7,892.2	7,863.3	27.8	18.2	88.98	372.6	-136.1	970.1	929.8	40.22	24.120		
8,075.0	7,939.4	7,967.2	7,938.3	27.8	18.2	88.98	372.6	-136.1	970.1	929.7	40.30	24.069		
8,100.0	7,964.4	7,992.2	7,963.3	27.9	18.2	88.98	372.6	-136.1	970.1	929.7	40.33	24.051		
8,170.0	8,034.4	8,062.2	8,033.3	27.9	18.3	88.98	372.6	-136.1	970.1	929.6	40.41	24.004		
8,200.0	8,064.4	8,092.2	8,063.3	27.9	18.3	88.98	372.6	-136.1	970.1	929.6	40.45	23.983		
8,265.0	8,129.4	8,157.2	8,128.3	27.9	18.3	88.98	372.6	-136.1	970.1	929.5	40.52	23.939		
8,300.0	8,164.4	8,192.2	8,163.3	27.9	18.3	88.98	372.6	-136.1	970.1	929.5	40.56	23.915		
8,360.0	8,224.4	8,252.2	8,223.3	27.9	18.4	88.98	372.6	-136.1	970.1	929.4	40.63	23.874		
8,400.0	8,264.4	8,292.2	8,263.3	28.0	18.4	88.98	372.6	-136.1	970.1	929.4	40.68	23.847		
8,455.0	8,319.4	8,347.2	8,318.3	28.0	18.4	88.98	372.6	-136.1	970.1	929.3	40.73	23.816		
8,486.6	8,351.0	8,378.8	8,349.9	28.0	18.5	88.98	372.6	-136.1	970.1	929.3	40.76	23.799		
8,500.0	8,364.4	8,392.2	8,363.3	28.0	18.5	-91.53	372.6	-136.1	970.1	929.3	40.77	23.794		
8,550.0	8,414.3	8,444.1	8,415.2	28.0	18.5	-91.65	371.1	-136.1	970.1	929.3	40.78	23.790		
8,600.0	8,463.7	8,496.7	8,467.4	28.0	18.6	-91.76	364.9	-136.2	970.2	929.4	40.79	23.787		
8,645.0	8,507.4	8,544.2	8,513.9	28.0	18.6	-91.84	355.3	-136.3	970.2	929.4	40.80	23.783		
8,650.0	8,512.2	8,549.5	8,519.0	28.0	18.6	-91.85	354.0	-136.3	970.2	929.4	40.80	23.782		
8,700.0	8,559.5	8,602.4	8,569.5	28.0	18.7	-91.93	338.2	-136.4	970.3	929.4	40.81	23.775		
8,740.0	8,596.2	8,644.9	8,608.9	28.0	18.7	-91.98	322.3	-136.5	970.3	929.5	40.82	23.769		
8,750.0	8,605.2	8,655.5	8,618.5	28.0	18.7	-91.99	317.8	-136.6	970.3	929.5	40.83	23.767		
8,800.0	8,649.0	8,708.7	8,665.5	28.0	18.8	-92.04	292.9	-136.8	970.3	929.5	40.85	23.755		
8,835.0	8,678.3	8,745.9	8,696.9	28.0	18.9	-92.06	273.0	-137.0	970.3	929.5	40.87	23.744		
8,850.0	8,690.5	8,761.9	8,710.0	28.1	18.9	-92.07	263.8	-137.1	970.3	929.5	40.88	23.739		
8,900.0	8,729.5	8,815.2	8,751.6	28.1	18.9	-92.09	230.6	-137.4	970.4	929.4	40.91	23.719		
8,930.0	8,751.5	8,847.1	8,775.1	28.1	19.0	-92.09	208.9	-137.6	970.4	929.4	40.94	23.704		
8,950.0	8,765.5	8,868.4	8,790.0	28.1	19.0	-92.08	193.7	-137.7	970.4	929.4	40.96	23.693		
9,000.0	8,798.4	8,921.7	8,824.8	28.1	19.1	-92.06	153.4	-138.0	970.3	929.3	41.01	23.661		
9,025.0	8,813.6	8,948.3	8,840.7	28.1	19.1	-92.05	132.0	-138.2	970.3	929.3	41.04	23.643		
9,050.0	8,827.9	8,974.9	8,855.7	28.1	19.1	-92.03	110.0	-138.4	970.3	929.2	41.07	23.623		
9,100.0	8,853.8	9,028.1	8,882.3	28.2	19.2	-91.97	64.1	-138.8	970.3	929.1	41.15	23.578		
9,120.0	8,863.1	9,049.3	8,891.8	28.2	19.2	-91.95	45.1	-139.0	970.3	929.1	41.19	23.559		
9,150.0	8,875.8	9,081.1	8,904.6	28.2	19.2	-91.90	16.0	-139.3	970.3	929.0	41.24	23.527		
9,200.0	8,893.9	9,134.0	8,922.3	28.2	19.3	-91.82	-33.8	-139.7	970.2	928.9	41.34	23.468		
9,215.0	8,898.5	9,149.8	8,926.7	28.3	19.3	-91.79	-49.0	-139.8	970.2	928.8	41.37	23.450		
9,250.0	8,907.8	9,186.7	8,935.3	28.3	19.3	-91.72	-84.9	-140.2	970.2	928.7	41.45	23.404		
9,300.0	8,917.5	9,239.3	8,943.5	28.3	19.4	-91.61	-136.8	-140.6	970.1	928.5	41.58	23.333		
9,310.0	8,918.9	9,249.8	8,944.5	28.3	19.4	-91.59	-147.2	-140.7	970.1	928.5	41.60	23.319		
9,350.0	8,922.8	9,291.6	8,946.9	28.4	19.4	-91.49	-189.0	-141.1	970.0	928.3	41.71	23.258		
9,385.5	8,924.0	9,327.5	8,947.0	28.4	19.4	-91.43	-224.9	-141.4	970.0	928.2	41.80	23.205		
9,385.6	8,924.0	9,327.6	8,947.0	28.4	19.4	-91.43	-225.0	-141.4	970.0	928.2	41.80	23.205		
9,400.0	8,924.0	9,342.1	8,947.1	28.4	19.4	-91.43	-239.5	-141.5	970.0	928.2	41.84	23.183		
9,405.0	8,924.0	9,347.1	8,947.1	28.5	19.4	-91.43	-244.5	-141.6	970.0	928.2	41.86	23.174		
9,500.0	8,924.2	9,442.1	8,947.2	28.6	19.4	-91.42	-339.5	-142.4	970.0	927.9	42.16	23.008		
9,595.0	8,924.4	9,537.1	8,947.3	28.7	19.5	-91.42	-434.5	-143.3	970.0	927.5	42.52	22.815		
9,600.0	8,924.4	9,542.1	8,947.4	28.7	19.5	-91.42	-439.5	-143.3	970.0	927.5	42.54	22.805		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
9,690.0	8,924.6	9,632.1	8,947.5	28.9	19.6	-91.42	-529.5	-144.1	970.0	927.1	42.92	22.600	
9,700.0	8,924.6	9,642.1	8,947.5	28.9	19.6	-91.42	-539.5	-144.2	970.0	927.1	42.97	22.576	
9,785.0	8,924.8	9,727.1	8,947.6	29.0	19.6	-91.42	-624.5	-145.0	970.0	926.6	43.37	22.364	
9,800.0	8,924.8	9,742.1	8,947.7	29.1	19.7	-91.42	-639.5	-145.1	970.0	926.6	43.45	22.325	
9,880.0	8,924.9	9,822.1	8,947.8	29.2	19.7	-91.41	-719.4	-145.8	970.0	926.1	43.87	22.110	
9,900.0	8,925.0	9,842.1	8,947.8	29.3	19.8	-91.41	-739.4	-146.0	970.0	926.0	43.98	22.055	
9,975.0	8,925.1	9,917.1	8,947.9	29.4	19.8	-91.41	-814.4	-146.6	970.0	925.6	44.42	21.840	
10,000.0	8,925.2	9,942.1	8,947.9	29.5	19.9	-91.41	-839.4	-146.9	970.0	925.5	44.56	21.767	
10,070.0	8,925.3	10,012.1	8,948.1	29.7	19.9	-91.41	-909.4	-147.5	970.0	925.0	45.00	21.556	
10,100.0	8,925.3	10,042.1	8,948.1	29.7	20.0	-91.41	-939.4	-147.7	970.0	924.8	45.19	21.465	
10,165.0	8,925.5	10,107.1	8,948.2	29.9	20.1	-91.41	-1,004.4	-148.3	970.0	924.4	45.62	21.262	
10,200.0	8,925.5	10,142.1	8,948.2	30.0	20.1	-91.41	-1,039.4	-148.6	970.0	924.2	45.86	21.151	
10,260.0	8,925.6	10,202.1	8,948.3	30.1	20.2	-91.40	-1,099.4	-149.2	970.0	923.7	46.28	20.958	
10,300.0	8,925.7	10,242.1	8,948.4	30.2	20.3	-91.40	-1,139.4	-149.5	970.0	923.4	46.57	20.827	
10,355.0	8,925.8	10,297.1	8,948.5	30.4	20.4	-91.40	-1,194.4	-150.0	970.0	923.0	46.98	20.646	
10,400.0	8,925.9	10,342.1	8,948.5	30.5	20.5	-91.40	-1,239.4	-150.4	970.0	922.7	47.33	20.497	
10,450.0	8,926.0	10,392.1	8,948.6	30.7	20.6	-91.40	-1,289.4	-150.9	970.0	922.3	47.71	20.330	
10,500.0	8,926.1	10,442.1	8,948.7	30.8	20.7	-91.40	-1,339.4	-151.3	970.0	921.9	48.11	20.162	
10,545.0	8,926.2	10,487.1	8,948.8	30.9	20.8	-91.40	-1,384.4	-151.7	970.0	921.5	48.48	20.009	
10,600.0	8,926.3	10,542.1	8,948.8	31.1	21.0	-91.40	-1,439.4	-152.2	970.0	921.1	48.93	19.823	
10,640.0	8,926.4	10,582.1	8,948.9	31.2	21.1	-91.40	-1,479.4	-152.5	970.0	920.7	49.27	19.686	
10,700.0	8,926.5	10,642.1	8,949.0	31.4	21.3	-91.39	-1,539.4	-153.1	970.0	920.2	49.79	19.482	
10,735.0	8,926.5	10,677.1	8,949.0	31.5	21.4	-91.39	-1,574.4	-153.4	970.0	919.9	50.10	19.363	
10,800.0	8,926.7	10,742.1	8,949.1	31.8	21.6	-91.39	-1,639.4	-154.0	970.0	919.3	50.68	19.142	
10,830.0	8,926.7	10,772.1	8,949.2	31.9	21.7	-91.39	-1,669.4	-154.2	970.0	919.1	50.95	19.039	
10,900.0	8,926.9	10,842.1	8,949.3	32.1	21.9	-91.39	-1,739.4	-154.8	970.0	918.4	51.59	18.802	
10,925.0	8,926.9	10,867.1	8,949.3	32.2	22.0	-91.39	-1,764.4	-155.1	970.0	918.2	51.83	18.717	
11,000.0	8,927.0	10,942.1	8,949.4	32.5	22.3	-91.39	-1,839.4	-155.7	970.0	917.5	52.53	18.465	
11,020.0	8,927.1	10,962.1	8,949.5	32.5	22.4	-91.39	-1,859.4	-155.9	970.0	917.3	52.73	18.397	
11,100.0	8,927.2	11,042.1	8,949.6	32.8	22.8	-91.38	-1,939.4	-156.6	970.0	916.5	53.50	18.131	
11,115.0	8,927.3	11,057.1	8,949.6	32.9	22.8	-91.38	-1,954.4	-156.8	970.0	916.4	53.65	18.080	
11,200.0	8,927.4	11,142.1	8,949.7	33.2	23.2	-91.38	-2,039.4	-157.5	970.0	915.5	54.50	17.800	
11,210.0	8,927.4	11,152.1	8,949.7	33.3	23.3	-91.38	-2,049.4	-157.6	970.0	915.4	54.60	17.767	
11,300.0	8,927.6	11,242.1	8,949.9	33.6	23.7	-91.38	-2,139.4	-158.4	970.0	914.5	55.51	17.474	
11,305.0	8,927.6	11,247.1	8,949.9	33.6	23.8	-91.38	-2,144.4	-158.4	970.0	914.5	55.56	17.458	
11,400.0	8,927.8	11,342.1	8,950.0	34.0	24.2	-91.38	-2,239.4	-159.3	970.0	913.5	56.55	17.153	
11,495.0	8,928.0	11,437.1	8,950.2	34.4	24.8	-91.38	-2,334.4	-160.1	970.0	912.5	57.56	16.854	
11,500.0	8,928.0	11,442.1	8,950.2	34.5	24.8	-91.38	-2,339.4	-160.2	970.0	912.4	57.61	16.838	
11,590.0	8,928.2	11,532.1	8,950.3	34.8	25.3	-91.37	-2,429.4	-161.0	970.0	911.4	58.58	16.559	
11,600.0	8,928.2	11,542.1	8,950.3	34.9	25.3	-91.37	-2,439.4	-161.1	970.0	911.3	58.69	16.528	
11,685.0	8,928.3	11,627.1	8,950.4	35.3	25.8	-91.37	-2,524.4	-161.8	970.0	910.4	59.62	16.270	
11,700.0	8,928.4	11,642.1	8,950.5	35.3	25.9	-91.37	-2,539.4	-161.9	970.0	910.2	59.79	16.225	
11,780.0	8,928.5	11,722.1	8,950.6	35.7	26.4	-91.37	-2,619.4	-162.7	970.0	909.4	60.68	15.987	
11,800.0	8,928.6	11,742.1	8,950.6	35.8	26.5	-91.37	-2,639.4	-162.8	970.0	909.1	60.90	15.928	
11,875.0	8,928.7	11,817.1	8,950.7	36.1	27.0	-91.37	-2,714.4	-163.5	970.0	908.3	61.75	15.709	
11,900.0	8,928.7	11,842.1	8,950.8	36.2	27.1	-91.37	-2,739.4	-163.7	970.0	908.0	62.03	15.637	
11,970.0	8,928.9	11,912.1	8,950.9	36.6	27.5	-91.36	-2,809.4	-164.3	970.0	907.2	62.83	15.438	
12,000.0	8,928.9	11,942.1	8,950.9	36.7	27.7	-91.36	-2,839.4	-164.6	970.0	906.8	63.18	15.354	
12,065.0	8,929.1	12,007.1	8,951.0	37.0	28.1	-91.36	-2,904.4	-165.2	970.0	906.1	63.93	15.172	
12,100.0	8,929.1	12,042.1	8,951.1	37.2	28.3	-91.36	-2,939.4	-165.5	970.0	905.7	64.34	15.076	
12,160.0	8,929.2	12,102.1	8,951.1	37.5	28.7	-91.36	-2,999.4	-166.0	970.0	905.0	65.05	14.913	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,200.0	8,929.3	12,142.1	8,951.2	37.7	29.0	-91.36	-3,039.4	-166.4	970.0	904.5	65.52	14.805		
12,255.0	8,929.4	12,197.1	8,951.3	38.0	29.3	-91.36	-3,094.4	-166.9	970.0	903.9	66.17	14.659		
12,300.0	8,929.5	12,242.1	8,951.4	38.2	29.6	-91.36	-3,139.3	-167.3	970.0	903.3	66.71	14.541		
12,350.0	8,929.6	12,292.1	8,951.4	38.5	29.9	-91.35	-3,189.3	-167.7	970.0	902.7	67.31	14.412		
12,400.0	8,929.7	12,342.1	8,951.5	38.7	30.3	-91.35	-3,239.3	-168.2	970.0	902.1	67.91	14.284		
12,445.0	8,929.8	12,387.1	8,951.6	38.9	30.6	-91.35	-3,284.3	-168.6	970.0	901.6	68.46	14.170		
12,500.0	8,929.9	12,442.1	8,951.6	39.2	30.9	-91.35	-3,339.3	-169.1	970.0	900.9	69.13	14.033		
12,540.0	8,930.0	12,482.1	8,951.7	39.4	31.2	-91.35	-3,379.3	-169.4	970.0	900.4	69.62	13.934		
12,600.0	8,930.1	12,542.1	8,951.8	39.8	31.6	-91.35	-3,439.3	-169.9	970.0	899.7	70.35	13.788		
12,635.0	8,930.1	12,577.1	8,951.8	39.9	31.8	-91.35	-3,474.3	-170.2	970.0	899.2	70.78	13.704		
12,700.0	8,930.3	12,642.1	8,951.9	40.3	32.3	-91.35	-3,539.3	-170.8	970.0	898.4	71.59	13.550		
12,730.0	8,930.3	12,672.1	8,952.0	40.5	32.5	-91.35	-3,569.3	-171.1	970.0	898.1	71.96	13.479		
12,800.0	8,930.4	12,742.1	8,952.1	40.8	32.9	-91.34	-3,639.3	-171.7	970.0	897.2	72.84	13.318		
12,825.0	8,930.5	12,767.1	8,952.1	41.0	33.1	-91.34	-3,664.3	-171.9	970.0	896.9	73.15	13.261		
12,900.0	8,930.6	12,842.1	8,952.2	41.4	33.6	-91.34	-3,739.3	-172.6	970.0	895.9	74.10	13.092		
12,920.0	8,930.7	12,862.1	8,952.3	41.5	33.8	-91.34	-3,759.3	-172.8	970.0	895.7	74.35	13.047		
13,000.0	8,930.8	12,942.1	8,952.4	41.9	34.3	-91.34	-3,839.3	-173.5	970.0	894.7	75.36	12.872		
13,015.0	8,930.8	12,957.1	8,952.4	42.0	34.4	-91.34	-3,854.3	-173.6	970.0	894.5	75.55	12.839		
13,100.0	8,931.0	13,042.1	8,952.5	42.5	35.0	-91.34	-3,939.3	-174.4	970.0	893.4	76.64	12.657		
13,110.0	8,931.0	13,052.1	8,952.5	42.6	35.1	-91.34	-3,949.3	-174.5	970.0	893.3	76.77	12.636		
13,200.0	8,931.2	13,142.1	8,952.7	43.1	35.7	-91.33	-4,039.3	-175.3	970.0	892.1	77.92	12.449		
13,205.0	8,931.2	13,147.1	8,952.7	43.1	35.7	-91.33	-4,044.3	-175.3	970.0	892.0	77.99	12.438		
13,300.0	8,931.4	13,242.1	8,952.8	43.6	36.4	-91.33	-4,139.3	-176.2	970.0	890.8	79.22	12.245		
13,395.0	8,931.6	13,337.1	8,953.0	44.2	37.0	-91.33	-4,234.3	-177.0	970.0	889.6	80.45	12.057		
13,400.0	8,931.6	13,342.1	8,953.0	44.2	37.1	-91.33	-4,239.3	-177.0	970.0	889.5	80.52	12.048		
13,490.0	8,931.7	13,432.1	8,953.1	44.7	37.7	-91.33	-4,329.3	-177.8	970.0	888.3	81.69	11.874		
13,500.0	8,931.8	13,442.1	8,953.1	44.8	37.8	-91.33	-4,339.3	-177.9	970.0	888.2	81.83	11.855		
13,585.0	8,931.9	13,527.1	8,953.3	45.3	38.4	-91.32	-4,424.3	-178.7	970.0	887.1	82.94	11.695		
13,600.0	8,931.9	13,542.1	8,953.3	45.4	38.5	-91.32	-4,439.3	-178.8	970.0	886.9	83.14	11.667		
13,680.0	8,932.1	13,622.1	8,953.4	45.9	39.0	-91.32	-4,519.3	-179.5	970.0	885.8	84.20	11.521		
13,700.0	8,932.1	13,642.1	8,953.4	46.0	39.2	-91.32	-4,539.3	-179.7	970.0	885.6	84.46	11.485		
13,775.0	8,932.3	13,717.1	8,953.5	46.4	39.7	-91.32	-4,614.3	-180.4	970.0	884.6	85.46	11.351		
13,800.0	8,932.3	13,742.1	8,953.6	46.6	39.9	-91.32	-4,639.3	-180.6	970.0	884.2	85.79	11.307		
13,870.0	8,932.5	13,812.1	8,953.7	47.0	40.4	-91.32	-4,709.3	-181.2	970.0	883.3	86.73	11.185		
13,900.0	8,932.5	13,842.1	8,953.7	47.2	40.6	-91.32	-4,739.3	-181.5	970.0	882.9	87.13	11.134		
13,965.0	8,932.6	13,907.1	8,953.8	47.6	41.1	-91.32	-4,804.3	-182.1	970.0	882.0	88.00	11.023		
14,000.0	8,932.7	13,942.1	8,953.9	47.8	41.3	-91.32	-4,839.3	-182.4	970.0	881.6	88.47	10.965		
14,060.0	8,932.8	14,002.1	8,954.0	48.2	41.7	-91.31	-4,899.3	-182.9	970.0	880.8	89.28	10.866		
14,100.0	8,932.9	14,042.1	8,954.0	48.4	42.0	-91.31	-4,939.3	-183.3	970.0	880.2	89.82	10.800		
14,155.0	8,933.0	14,097.1	8,954.1	48.8	42.4	-91.31	-4,994.3	-183.7	970.0	879.5	90.56	10.712		
14,200.0	8,933.1	14,142.1	8,954.2	49.0	42.7	-91.31	-5,039.3	-184.1	970.0	878.9	91.17	10.640		
14,250.0	8,933.2	14,192.1	8,954.2	49.3	43.1	-91.31	-5,089.3	-184.6	970.0	878.2	91.85	10.562		
14,300.0	8,933.3	14,242.1	8,954.3	49.7	43.5	-91.31	-5,139.3	-185.0	970.0	877.5	92.53	10.484		
14,345.0	8,933.4	14,287.1	8,954.4	49.9	43.8	-91.31	-5,184.3	-185.4	970.0	876.9	93.14	10.415		
14,400.0	8,933.5	14,342.1	8,954.5	50.3	44.2	-91.31	-5,239.3	-185.9	970.0	876.2	93.89	10.332		
14,440.0	8,933.5	14,382.1	8,954.5	50.5	44.5	-91.30	-5,279.3	-186.3	970.0	875.6	94.43	10.272		
14,500.0	8,933.6	14,442.1	8,954.6	50.9	44.9	-91.30	-5,339.3	-186.8	970.0	874.8	95.25	10.184		
14,535.0	8,933.7	14,477.1	8,954.7	51.1	45.2	-91.30	-5,374.3	-187.1	970.0	874.3	95.73	10.133		
14,600.0	8,933.8	14,542.1	8,954.8	51.6	45.6	-91.30	-5,439.3	-187.7	970.0	873.4	96.63	10.039		
14,630.0	8,933.9	14,572.1	8,954.8	51.7	45.8	-91.30	-5,469.3	-188.0	970.0	873.0	97.04	9.996		
14,700.0	8,934.0	14,642.1	8,954.9	52.2	46.3	-91.30	-5,539.3	-188.6	970.0	872.0	98.00	9.898		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
14,725.0	8,934.1	14,667.1	8,954.9	52.4	46.5	-91.30	-5,564.3	-188.8	970.0	871.7	98.35	9.863
14,800.0	8,934.2	14,742.1	8,955.0	52.8	47.1	-91.30	-5,639.2	-189.5	970.0	870.7	99.38	9.761
14,820.0	8,934.3	14,762.1	8,955.1	53.0	47.2	-91.30	-5,659.2	-189.6	970.0	870.4	99.66	9.733
14,900.0	8,934.4	14,842.1	8,955.2	53.5	47.8	-91.29	-5,739.2	-190.4	970.0	869.3	100.77	9.626
14,915.0	8,934.4	14,857.1	8,955.2	53.6	47.9	-91.29	-5,754.2	-190.5	970.0	869.1	100.98	9.607
15,000.0	8,934.6	14,942.1	8,955.3	54.1	48.5	-91.29	-5,839.2	-191.2	970.0	867.9	102.16	9.496
15,010.0	8,934.6	14,952.1	8,955.4	54.2	48.6	-91.29	-5,849.2	-191.3	970.0	867.7	102.30	9.483
15,100.0	8,934.8	15,042.1	8,955.5	54.8	49.3	-91.29	-5,939.2	-192.1	970.0	866.5	103.55	9.368
15,105.0	8,934.8	15,047.1	8,955.5	54.8	49.3	-91.29	-5,944.2	-192.2	970.0	866.4	103.62	9.362
15,200.0	8,935.0	15,142.1	8,955.6	55.4	50.0	-91.29	-6,039.2	-193.0	970.0	865.1	104.95	9.243
15,295.0	8,935.1	15,237.1	8,955.8	56.1	50.7	-91.28	-6,134.2	-193.9	970.0	863.8	106.28	9.128
15,300.0	8,935.2	15,242.1	8,955.8	56.1	50.7	-91.28	-6,139.2	-193.9	970.0	863.7	106.35	9.122
15,390.0	8,935.3	15,332.1	8,955.9	56.7	51.4	-91.28	-6,229.2	-194.7	970.0	862.4	107.61	9.015
15,400.0	8,935.3	15,342.1	8,955.9	56.8	51.5	-91.28	-6,239.2	-194.8	970.0	862.3	107.75	9.003
15,485.0	8,935.5	15,427.1	8,956.1	57.3	52.1	-91.28	-6,324.2	-195.5	970.0	861.1	108.94	8.904
15,500.0	8,935.5	15,442.1	8,956.1	57.4	52.2	-91.28	-6,339.2	-195.7	970.0	860.9	109.15	8.887
15,580.0	8,935.7	15,522.1	8,956.2	57.9	52.8	-91.28	-6,419.2	-196.4	970.0	859.8	110.28	8.796
15,600.0	8,935.7	15,542.1	8,956.2	58.1	52.9	-91.28	-6,439.2	-196.6	970.0	859.5	110.56	8.774
15,675.0	8,935.9	15,617.1	8,956.3	58.6	53.5	-91.27	-6,514.2	-197.2	970.0	858.4	111.62	8.690
15,700.0	8,935.9	15,642.1	8,956.4	58.7	53.7	-91.27	-6,539.2	-197.5	970.0	858.1	111.98	8.663
15,770.0	8,936.0	15,712.1	8,956.5	59.2	54.2	-91.27	-6,609.2	-198.1	970.0	857.1	112.97	8.587
15,800.0	8,936.1	15,742.1	8,956.5	59.4	54.4	-91.27	-6,639.2	-198.3	970.0	856.7	113.39	8.555
15,865.0	8,936.2	15,807.1	8,956.6	59.9	54.9	-91.27	-6,704.2	-198.9	970.0	855.7	114.31	8.486
15,900.0	8,936.3	15,842.1	8,956.7	60.1	55.1	-91.27	-6,739.2	-199.2	970.0	855.2	114.81	8.449
15,960.0	8,936.4	15,902.1	8,956.8	60.5	55.6	-91.27	-6,799.2	-199.8	970.0	854.4	115.66	8.387
16,000.0	8,936.5	15,942.1	8,956.8	60.8	55.9	-91.27	-6,839.2	-200.1	970.0	853.8	116.23	8.346
16,055.0	8,936.6	15,997.1	8,956.9	61.1	56.3	-91.27	-6,894.2	-200.6	970.0	853.0	117.01	8.290
16,100.0	8,936.7	16,042.1	8,957.0	61.4	56.6	-91.26	-6,939.2	-201.0	970.0	852.4	117.65	8.245
16,150.0	8,936.8	16,092.1	8,957.0	61.8	57.0	-91.26	-6,989.2	-201.4	970.0	851.7	118.37	8.195
16,200.0	8,936.9	16,142.1	8,957.1	62.1	57.3	-91.26	-7,039.2	-201.9	970.0	851.0	119.08	8.146
16,245.0	8,936.9	16,187.1	8,957.2	62.4	57.7	-91.26	-7,084.2	-202.3	970.1	850.3	119.72	8.102
16,300.0	8,937.0	16,242.1	8,957.3	62.8	58.1	-91.26	-7,139.2	-202.8	970.1	849.5	120.51	8.050
16,340.0	8,937.1	16,282.1	8,957.3	63.1	58.4	-91.26	-7,179.2	-203.1	970.1	849.0	121.08	8.012
16,400.0	8,937.2	16,342.1	8,957.4	63.5	58.8	-91.26	-7,239.2	-203.7	970.1	848.1	121.94	7.955
16,435.0	8,937.3	16,377.1	8,957.5	63.7	59.1	-91.26	-7,274.2	-204.0	970.1	847.6	122.44	7.923
16,500.0	8,937.4	16,442.1	8,957.6	64.2	59.6	-91.25	-7,339.2	-204.6	970.1	846.7	123.37	7.863
16,530.0	8,937.5	16,472.1	8,957.6	64.4	59.8	-91.25	-7,369.2	-204.8	970.1	846.2	123.80	7.835
16,600.0	8,937.6	16,542.1	8,957.7	64.9	60.3	-91.25	-7,439.2	-205.4	970.1	845.2	124.81	7.772
16,625.0	8,937.7	16,567.1	8,957.7	65.0	60.5	-91.25	-7,464.2	-205.7	970.1	844.9	125.17	7.750
16,700.0	8,937.8	16,642.1	8,957.9	65.5	61.1	-91.25	-7,539.2	-206.3	970.1	843.8	126.24	7.684
16,720.0	8,937.8	16,662.1	8,957.9	65.7	61.2	-91.25	-7,559.2	-206.5	970.1	843.5	126.53	7.666
16,800.0	8,938.0	16,742.1	8,958.0	66.2	61.8	-91.25	-7,639.2	-207.2	970.1	842.4	127.68	7.597
16,815.0	8,938.0	16,757.1	8,958.0	66.3	61.9	-91.25	-7,654.2	-207.4	970.1	842.2	127.90	7.584
16,900.0	8,938.2	16,842.1	8,958.2	66.9	62.5	-91.25	-7,739.2	-208.1	970.1	840.9	129.13	7.512
16,910.0	8,938.2	16,852.1	8,958.2	67.0	62.6	-91.25	-7,749.2	-208.2	970.1	840.8	129.27	7.504
17,000.0	8,938.4	16,942.1	8,958.3	67.6	63.3	-91.24	-7,839.2	-209.0	970.1	839.5	130.57	7.429
17,005.0	8,938.4	16,947.1	8,958.3	67.7	63.3	-91.24	-7,844.2	-209.0	970.1	839.4	130.64	7.425
17,100.0	8,938.6	17,042.1	8,958.5	68.3	64.0	-91.24	-7,939.2	-209.9	970.1	838.0	132.01	7.348
17,195.0	8,938.7	17,137.1	8,958.6	69.0	64.7	-91.24	-8,034.2	-210.7	970.1	836.7	133.39	7.272
17,200.0	8,938.7	17,142.1	8,958.6	69.0	64.8	-91.24	-8,039.2	-210.8	970.1	836.6	133.46	7.268
17,290.0	8,938.9	17,232.1	8,958.7	69.6	65.4	-91.24	-8,129.1	-211.6	970.1	835.3	134.76	7.198

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Rule Assigned:				Offset Well Error: 3.0 usft			
Reference		Semi Major Axis		Offset Wellbore Centre		Distance		Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,300.0	8,938.9	17,242.1	8,958.7	69.7	65.5	-91.24	-8,139.1	-211.7	970.1	835.1	134.91	7.190	
17,385.0	8,939.1	17,327.1	8,958.9	70.3	66.2	-91.23	-8,224.1	-212.4	970.1	833.9	136.14	7.125	
17,400.0	8,939.1	17,342.1	8,958.9	70.4	66.3	-91.23	-8,239.1	-212.5	970.1	833.7	136.36	7.114	
17,480.0	8,939.3	17,422.1	8,959.0	71.0	66.9	-91.23	-8,319.1	-213.3	970.1	832.5	137.52	7.054	
17,500.0	8,939.3	17,442.1	8,959.0	71.1	67.0	-91.23	-8,339.1	-213.4	970.1	832.2	137.81	7.039	
17,575.0	8,939.4	17,517.1	8,959.2	71.6	67.6	-91.23	-8,414.1	-214.1	970.1	831.2	138.90	6.984	
17,600.0	8,939.5	17,542.1	8,959.2	71.8	67.8	-91.23	-8,439.1	-214.3	970.1	830.8	139.27	6.966	
17,670.0	8,939.6	17,612.1	8,959.3	72.3	68.3	-91.23	-8,509.1	-214.9	970.1	829.8	140.28	6.915	
17,700.0	8,939.7	17,642.1	8,959.3	72.5	68.5	-91.23	-8,539.1	-215.2	970.1	829.3	140.72	6.893	
17,765.0	8,939.8	17,707.1	8,959.4	73.0	69.0	-91.22	-8,604.1	-215.8	970.1	828.4	141.67	6.847	
17,800.0	8,939.9	17,742.1	8,959.5	73.2	69.2	-91.22	-8,639.1	-216.1	970.1	827.9	142.18	6.823	
17,860.0	8,940.0	17,802.1	8,959.6	73.6	69.7	-91.22	-8,699.1	-216.6	970.1	827.0	143.05	6.781	
17,900.0	8,940.1	17,842.1	8,959.6	73.9	70.0	-91.22	-8,739.1	-217.0	970.1	826.4	143.64	6.754	
17,955.0	8,940.2	17,897.1	8,959.7	74.3	70.4	-91.22	-8,794.1	-217.5	970.1	825.6	144.44	6.716	
18,000.0	8,940.2	17,942.1	8,959.8	74.6	70.7	-91.22	-8,839.1	-217.9	970.1	825.0	145.10	6.686	
18,050.0	8,940.3	17,992.1	8,959.9	75.0	71.1	-91.22	-8,889.1	-218.3	970.1	824.2	145.83	6.652	
18,100.0	8,940.4	18,042.1	8,959.9	75.3	71.5	-91.22	-8,939.1	-218.8	970.1	823.5	146.56	6.619	
18,145.0	8,940.5	18,087.1	8,960.0	75.7	71.8	-91.22	-8,984.1	-219.2	970.1	822.8	147.21	6.589	
18,200.0	8,940.6	18,142.1	8,960.1	76.0	72.2	-91.21	-9,039.1	-219.6	970.1	822.0	148.02	6.554	
18,240.0	8,940.7	18,182.1	8,960.1	76.3	72.5	-91.21	-9,079.1	-220.0	970.1	821.5	148.60	6.528	
18,300.0	8,940.8	18,242.1	8,960.2	76.8	73.0	-91.21	-9,139.1	-220.5	970.1	820.6	149.48	6.489	
18,335.0	8,940.9	18,277.1	8,960.3	77.0	73.3	-91.21	-9,174.1	-220.8	970.1	820.1	149.99	6.467	
18,400.0	8,941.0	18,342.1	8,960.4	77.5	73.7	-91.21	-9,239.1	-221.4	970.1	819.1	150.95	6.427	
18,430.0	8,941.1	18,372.1	8,960.4	77.7	74.0	-91.21	-9,269.1	-221.7	970.1	818.7	151.39	6.408	
18,500.0	8,941.2	18,442.1	8,960.5	78.2	74.5	-91.21	-9,339.1	-222.3	970.1	817.6	152.41	6.365	
18,525.0	8,941.2	18,467.1	8,960.6	78.4	74.7	-91.21	-9,364.1	-222.5	970.1	817.3	152.78	6.349	
18,600.0	8,941.4	18,542.1	8,960.7	78.9	75.2	-91.20	-9,439.1	-223.2	970.1	816.2	153.88	6.304	
18,620.0	8,941.4	18,562.1	8,960.7	79.0	75.4	-91.20	-9,459.1	-223.4	970.1	815.9	154.17	6.292	
18,700.0	8,941.6	18,642.1	8,960.8	79.6	76.0	-91.20	-9,539.1	-224.1	970.1	814.7	155.35	6.244	
18,715.0	8,941.6	18,657.1	8,960.8	79.7	76.1	-91.20	-9,554.1	-224.2	970.1	814.5	155.57	6.236	
18,800.0	8,941.8	18,742.1	8,961.0	80.3	76.7	-91.20	-9,639.1	-225.0	970.1	813.2	156.82	6.186	
18,810.0	8,941.8	18,752.1	8,961.0	80.4	76.8	-91.20	-9,649.1	-225.1	970.1	813.1	156.97	6.180	
18,900.0	8,941.9	18,842.1	8,961.1	81.0	77.5	-91.20	-9,739.1	-225.9	970.1	811.8	158.29	6.128	
18,905.0	8,942.0	18,847.1	8,961.1	81.1	77.5	-91.20	-9,744.1	-225.9	970.1	811.7	158.36	6.126	
19,000.0	8,942.1	18,942.1	8,961.3	81.8	78.2	-91.19	-9,839.1	-226.7	970.1	810.3	159.76	6.072	
19,095.0	8,942.3	19,037.1	8,961.4	82.4	79.0	-91.19	-9,934.1	-227.6	970.1	808.9	161.16	6.019	
19,100.0	8,942.3	19,042.1	8,961.4	82.5	79.0	-91.19	-9,939.1	-227.6	970.1	808.8	161.23	6.017	
19,190.0	8,942.5	19,132.1	8,961.5	83.1	79.7	-91.19	-10,029.1	-228.4	970.1	807.5	162.56	5.967	
19,200.0	8,942.5	19,142.1	8,961.6	83.2	79.7	-91.19	-10,039.1	-228.5	970.1	807.4	162.71	5.962	
19,285.0	8,942.7	19,227.1	8,961.7	83.8	80.4	-91.19	-10,124.1	-229.3	970.1	806.1	163.96	5.916	
19,300.0	8,942.7	19,242.1	8,961.7	83.9	80.5	-91.19	-10,139.1	-229.4	970.1	805.9	164.18	5.909	
19,380.0	8,942.9	19,322.1	8,961.8	84.5	81.1	-91.19	-10,219.1	-230.1	970.1	804.7	165.36	5.866	
19,400.0	8,942.9	19,342.1	8,961.9	84.6	81.3	-91.19	-10,239.1	-230.3	970.1	804.4	165.66	5.856	
19,475.0	8,943.0	19,417.1	8,962.0	85.2	81.8	-91.18	-10,314.1	-231.0	970.1	803.3	166.76	5.817	
19,500.0	8,943.1	19,442.1	8,962.0	85.3	82.0	-91.18	-10,339.1	-231.2	970.1	802.9	167.13	5.804	
19,570.0	8,943.2	19,512.1	8,962.1	85.9	82.5	-91.18	-10,409.1	-231.8	970.1	801.9	168.17	5.768	
19,600.0	8,943.3	19,542.1	8,962.2	86.1	82.8	-91.18	-10,439.1	-232.1	970.1	801.5	168.61	5.753	
19,665.0	8,943.4	19,607.1	8,962.2	86.5	83.2	-91.18	-10,504.1	-232.6	970.1	800.5	169.57	5.721	
19,700.0	8,943.5	19,642.1	8,962.3	86.8	83.5	-91.18	-10,539.0	-233.0	970.1	800.0	170.09	5.703	
19,760.0	8,943.6	19,702.1	8,962.4	87.2	84.0	-91.18	-10,599.0	-233.5	970.1	799.1	170.98	5.674	
19,800.0	8,943.6	19,742.1	8,962.4	87.5	84.3	-91.18	-10,639.0	-233.8	970.1	798.5	171.57	5.654	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,855.0	8,943.7	19,797.1	8,962.5	87.9	84.7	-91.17	-10,694.0	-234.3	970.1	797.7	172.38	5.627		
19,900.0	8,943.8	19,842.1	8,962.6	88.2	85.0	-91.17	-10,739.0	-234.7	970.1	797.0	173.05	5.606		
19,950.0	8,943.9	19,892.1	8,962.7	88.6	85.4	-91.17	-10,789.0	-235.2	970.1	796.3	173.79	5.582		
20,000.0	8,944.0	19,942.1	8,962.7	89.0	85.8	-91.17	-10,839.0	-235.6	970.1	795.5	174.53	5.558		
20,045.0	8,944.1	19,987.1	8,962.8	89.3	86.1	-91.17	-10,884.0	-236.0	970.1	794.9	175.20	5.537		
20,100.0	8,944.2	20,042.1	8,962.9	89.7	86.5	-91.17	-10,939.0	-236.5	970.1	794.1	176.01	5.511		
20,140.0	8,944.3	20,082.1	8,963.0	90.0	86.8	-91.17	-10,979.0	-236.9	970.1	793.5	176.60	5.493		
20,200.0	8,944.4	20,142.1	8,963.0	90.4	87.3	-91.17	-11,039.0	-237.4	970.1	792.6	177.49	5.465		
20,235.0	8,944.5	20,177.1	8,963.1	90.7	87.5	-91.17	-11,074.0	-237.7	970.1	792.1	178.01	5.449		
20,300.0	8,944.6	20,242.1	8,963.2	91.1	88.0	-91.16	-11,139.0	-238.3	970.1	791.1	178.98	5.420		
20,330.0	8,944.6	20,272.1	8,963.2	91.4	88.3	-91.16	-11,169.0	-238.6	970.1	790.7	179.42	5.407		
20,400.0	8,944.8	20,342.1	8,963.3	91.9	88.8	-91.16	-11,239.0	-239.2	970.1	789.6	180.46	5.376		
20,425.0	8,944.8	20,367.1	8,963.4	92.1	89.0	-91.16	-11,264.0	-239.4	970.1	789.2	180.83	5.364		
20,500.0	8,945.0	20,442.1	8,963.5	92.6	89.5	-91.16	-11,339.0	-240.1	970.1	788.1	181.95	5.332		
20,520.0	8,945.0	20,462.1	8,963.5	92.7	89.7	-91.16	-11,359.0	-240.2	970.1	787.8	182.24	5.323		
20,600.0	8,945.2	20,542.1	8,963.6	93.3	90.3	-91.16	-11,439.0	-240.9	970.1	786.6	183.43	5.289		
20,615.0	8,945.2	20,557.1	8,963.7	93.4	90.4	-91.16	-11,454.0	-241.1	970.1	786.4	183.65	5.282		
20,700.0	8,945.3	20,642.1	8,963.8	94.1	91.1	-91.15	-11,539.0	-241.8	970.1	785.2	184.92	5.246		
20,710.0	8,945.4	20,652.1	8,963.8	94.1	91.1	-91.15	-11,549.0	-241.9	970.1	785.0	185.07	5.242		
20,800.0	8,945.5	20,742.1	8,963.9	94.8	91.8	-91.15	-11,639.0	-242.7	970.1	783.7	186.40	5.204		
20,805.0	8,945.5	20,747.1	8,963.9	94.8	91.8	-91.15	-11,644.0	-242.8	970.1	783.6	186.48	5.202		
20,900.0	8,945.7	20,842.1	8,964.1	95.5	92.6	-91.15	-11,739.0	-243.6	970.1	782.2	187.89	5.163		
20,995.0	8,945.9	20,937.1	8,964.2	96.2	93.3	-91.15	-11,834.0	-244.5	970.1	780.8	189.30	5.124		
21,000.0	8,945.9	20,942.1	8,964.2	96.2	93.3	-91.15	-11,839.0	-244.5	970.1	780.7	189.38	5.122		
21,090.0	8,946.1	21,032.1	8,964.4	96.9	94.0	-91.14	-11,929.0	-245.3	970.1	779.4	190.72	5.086		
21,100.0	8,946.1	21,042.1	8,964.4	97.0	94.1	-91.14	-11,939.0	-245.4	970.1	779.2	190.87	5.082		
21,185.0	8,946.3	21,127.1	8,964.5	97.6	94.7	-91.14	-12,024.0	-246.1	970.1	777.9	192.13	5.049		
21,200.0	8,946.3	21,142.1	8,964.5	97.7	94.8	-91.14	-12,039.0	-246.3	970.1	777.7	192.36	5.043		
21,280.0	8,946.4	21,222.1	8,964.6	98.3	95.4	-91.14	-12,119.0	-247.0	970.1	776.5	193.55	5.012		
21,300.0	8,946.5	21,242.1	8,964.7	98.4	95.6	-91.14	-12,139.0	-247.2	970.1	776.2	193.85	5.004		
21,375.0	8,946.6	21,317.1	8,964.8	99.0	96.1	-91.14	-12,214.0	-247.8	970.1	775.1	194.96	4.976		
21,400.0	8,946.7	21,342.1	8,964.8	99.2	96.3	-91.14	-12,239.0	-248.1	970.1	774.7	195.34	4.966		
21,470.0	8,946.8	21,412.1	8,964.9	99.7	96.9	-91.14	-12,309.0	-248.7	970.1	773.7	196.38	4.940		
21,500.0	8,946.9	21,442.1	8,965.0	99.9	97.1	-91.13	-12,339.0	-248.9	970.1	773.3	196.83	4.929		
21,565.0	8,947.0	21,507.1	8,965.1	100.4	97.6	-91.13	-12,404.0	-249.5	970.1	772.3	197.80	4.904		
21,600.0	8,947.0	21,542.1	8,965.1	100.6	97.8	-91.13	-12,439.0	-249.8	970.1	771.8	198.32	4.891		
21,660.0	8,947.2	21,602.1	8,965.2	101.1	98.3	-91.13	-12,499.0	-250.4	970.1	770.9	199.22	4.870		
21,700.0	8,947.2	21,642.1	8,965.3	101.4	98.6	-91.13	-12,539.0	-250.7	970.1	770.3	199.81	4.855		
21,755.0	8,947.3	21,697.1	8,965.3	101.8	99.0	-91.13	-12,594.0	-251.2	970.1	769.4	200.63	4.835		
21,800.0	8,947.4	21,742.1	8,965.4	102.1	99.4	-91.13	-12,639.0	-251.6	970.1	768.8	201.30	4.819		
21,850.0	8,947.5	21,792.1	8,965.5	102.5	99.7	-91.13	-12,689.0	-252.0	970.1	768.0	202.05	4.801		
21,900.0	8,947.6	21,842.1	8,965.6	102.8	100.1	-91.13	-12,739.0	-252.5	970.1	767.3	202.80	4.783		
21,945.0	8,947.7	21,887.1	8,965.6	103.2	100.5	-91.12	-12,784.0	-252.9	970.1	766.6	203.47	4.768		
22,000.0	8,947.8	21,942.1	8,965.7	103.6	100.9	-91.12	-12,839.0	-253.4	970.1	765.8	204.29	4.749		
22,040.0	8,947.9	21,982.1	8,965.8	103.9	101.2	-91.12	-12,879.0	-253.7	970.1	765.2	204.89	4.735		
22,100.0	8,948.0	22,042.1	8,965.9	104.3	101.6	-91.12	-12,939.0	-254.3	970.1	764.3	205.79	4.714		
22,135.0	8,948.0	22,077.1	8,965.9	104.6	101.9	-91.12	-12,974.0	-254.6	970.1	763.8	206.31	4.702		
22,200.0	8,948.2	22,142.1	8,966.0	105.1	102.4	-91.12	-13,038.9	-255.2	970.1	762.8	207.28	4.680		
22,230.0	8,948.2	22,172.1	8,966.0	105.3	102.6	-91.12	-13,068.9	-255.4	970.1	762.4	207.73	4.670		
22,300.0	8,948.4	22,242.1	8,966.1	105.8	103.1	-91.12	-13,138.9	-256.0	970.1	761.3	208.78	4.647		
22,325.0	8,948.4	22,267.1	8,966.2	106.0	103.3	-91.11	-13,163.9	-256.3	970.1	760.9	209.15	4.638		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
22,400.0	8,948.5	22,342.1	8,966.3	106.5	103.9	-91.11	-13,238.9	-256.9	970.1	759.8	210.27	4.613	
22,420.0	8,948.6	22,362.1	8,966.3	106.7	104.1	-91.11	-13,258.9	-257.1	970.1	759.5	210.57	4.607	
22,500.0	8,948.7	22,442.1	8,966.4	107.3	104.7	-91.11	-13,338.9	-257.8	970.1	758.3	211.77	4.581	
22,515.0	8,948.8	22,457.1	8,966.5	107.4	104.8	-91.11	-13,353.9	-257.9	970.1	758.1	211.99	4.576	
22,600.0	8,948.9	22,542.1	8,966.6	108.0	105.4	-91.11	-13,438.9	-258.7	970.1	756.8	213.26	4.549	
22,610.0	8,948.9	22,552.1	8,966.6	108.1	105.5	-91.11	-13,448.9	-258.8	970.1	756.7	213.41	4.546	
22,700.0	8,949.1	22,642.1	8,966.7	108.7	106.2	-91.11	-13,538.9	-259.6	970.1	755.3	214.76	4.517	
22,705.0	8,949.1	22,647.1	8,966.7	108.8	106.2	-91.11	-13,543.9	-259.6	970.1	755.3	214.84	4.515	
22,800.0	8,949.3	22,742.1	8,966.9	109.5	106.9	-91.10	-13,638.9	-260.5	970.1	753.8	216.26	4.486	
22,895.0	8,949.5	22,837.1	8,967.0	110.2	107.7	-91.10	-13,733.9	-261.3	970.1	752.4	217.68	4.456	
22,900.0	8,949.5	22,842.1	8,967.0	110.2	107.7	-91.10	-13,738.9	-261.4	970.1	752.3	217.76	4.455	
22,990.0	8,949.7	22,932.1	8,967.2	110.9	108.4	-91.10	-13,828.9	-262.2	970.1	751.0	219.10	4.428	
23,000.0	8,949.7	22,942.1	8,967.2	111.0	108.4	-91.10	-13,838.9	-262.3	970.1	750.8	219.25	4.424	
23,085.0	8,949.8	23,027.1	8,967.3	111.6	109.1	-91.10	-13,923.9	-263.0	970.1	749.6	220.53	4.399	
23,100.0	8,949.9	23,042.1	8,967.3	111.7	109.2	-91.10	-13,938.9	-263.1	970.1	749.3	220.75	4.394	
23,180.0	8,950.0	23,122.1	8,967.4	112.3	109.8	-91.09	-14,018.9	-263.9	970.1	748.1	221.95	4.371	
23,200.0	8,950.1	23,142.1	8,967.5	112.4	110.0	-91.09	-14,038.9	-264.0	970.1	747.8	222.25	4.365	
23,275.0	8,950.2	23,217.1	8,967.6	113.0	110.5	-91.09	-14,113.9	-264.7	970.1	746.7	223.38	4.343	
23,300.0	8,950.2	23,242.1	8,967.6	113.2	110.7	-91.09	-14,138.9	-264.9	970.1	746.3	223.75	4.336	
23,370.0	8,950.4	23,312.1	8,967.7	113.7	111.2	-91.09	-14,208.9	-265.5	970.1	745.3	224.80	4.315	
23,400.0	8,950.4	23,342.1	8,967.8	113.9	111.5	-91.09	-14,238.9	-265.8	970.1	744.8	225.25	4.307	
23,465.0	8,950.6	23,407.1	8,967.9	114.4	112.0	-91.09	-14,303.9	-266.4	970.1	743.9	226.23	4.288	
23,500.0	8,950.6	23,442.1	8,967.9	114.7	112.2	-91.09	-14,338.9	-266.7	970.1	743.3	226.75	4.278	
23,560.0	8,950.7	23,502.1	8,968.0	115.1	112.7	-91.09	-14,398.9	-267.2	970.1	742.4	227.65	4.261	
23,600.0	8,950.8	23,542.1	8,968.1	115.4	113.0	-91.08	-14,438.9	-267.6	970.1	741.8	228.25	4.250	
23,655.0	8,950.9	23,597.1	8,968.2	115.8	113.4	-91.08	-14,493.9	-268.1	970.1	741.0	229.08	4.235	
23,700.0	8,951.0	23,642.1	8,968.2	116.1	113.8	-91.08	-14,538.9	-268.5	970.1	740.3	229.75	4.222	
23,750.0	8,951.1	23,692.1	8,968.3	116.5	114.1	-91.08	-14,588.9	-268.9	970.1	739.6	230.50	4.209	
23,800.0	8,951.2	23,742.1	8,968.4	116.9	114.5	-91.08	-14,638.9	-269.4	970.1	738.8	231.25	4.195	
23,845.0	8,951.3	23,787.1	8,968.4	117.2	114.9	-91.08	-14,683.9	-269.8	970.1	738.2	231.93	4.183	
23,900.0	8,951.4	23,842.1	8,968.5	117.6	115.3	-91.08	-14,738.9	-270.2	970.1	737.3	232.76	4.168	
23,940.0	8,951.5	23,882.1	8,968.6	117.9	115.6	-91.08	-14,778.9	-270.6	970.1	736.7	233.36	4.157	
24,000.0	8,951.6	23,942.1	8,968.7	118.4	116.0	-91.07	-14,838.9	-271.1	970.1	735.8	234.26	4.141	
24,035.0	8,951.6	23,977.1	8,968.7	118.6	116.3	-91.07	-14,873.9	-271.4	970.1	735.3	234.78	4.132	
24,099.3	8,951.8	24,041.4	8,968.8	119.1	116.8	-91.07	-14,938.2	-272.0	970.1	734.3	235.75	4.115	
24,130.0	8,951.8	24,072.1	8,968.9	119.3	117.0	-91.07	-14,968.9	-272.3	970.1	733.9	236.21	4.107	
24,200.0	8,951.9	24,142.1	8,969.0	119.9	117.5	-91.07	-15,038.9	-272.9	970.1	732.8	237.26	4.089	
24,225.0	8,952.0	24,167.1	8,969.0	120.0	117.7	-91.07	-15,063.9	-273.1	970.1	732.5	237.64	4.082	
24,225.1	8,952.0	24,167.1	8,969.0	120.0	117.7	-91.07	-15,063.9	-273.1	970.1	732.5	237.64	4.082	
24,229.3	8,952.0	24,170.7	8,969.0	120.1	117.8	-91.07	-15,067.5	-273.2	970.1	732.4	237.69	4.081 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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	89.05	0.5	30.0	30.0				
95.0	95.0	94.6	94.6	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.971	
100.0	100.0	99.6	99.6	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.967	
190.0	190.0	189.6	189.6	3.1	3.1	89.05	0.5	30.0	30.0	23.8	6.25	4.799	
200.0	200.0	199.6	199.6	3.1	3.1	89.05	0.5	30.0	30.0	23.7	6.29	4.774	
285.0	285.0	284.6	284.6	3.3	3.3	89.05	0.5	30.0	30.0	23.5	6.48	4.629	
300.0	300.0	299.6	299.6	3.3	3.3	89.05	0.5	30.0	30.0	23.5	6.52	4.601	
380.0	380.0	379.6	379.6	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.70	4.477	
400.0	400.0	399.6	399.6	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.75	4.445	
475.0	475.0	474.6	474.6	3.5	3.5	89.05	0.5	30.0	30.0	23.1	6.91	4.340	
500.0	500.0	499.6	499.6	3.5	3.5	89.05	0.5	30.0	30.0	23.0	6.97	4.305	
570.0	570.0	569.6	569.6	3.6	3.6	89.05	0.5	30.0	30.0	22.9	7.12	4.215	
600.0	600.0	599.6	599.6	3.6	3.6	89.05	0.5	30.0	30.0	22.8	7.18	4.177	
665.0	665.0	664.6	664.6	3.7	3.7	89.05	0.5	30.0	30.0	22.7	7.32	4.100	
700.0	700.0	699.6	699.6	3.8	3.8	89.05	0.5	30.0	30.0	22.6	7.39	4.059	
760.0	760.0	759.6	759.6	3.8	3.8	89.05	0.5	30.0	30.0	22.5	7.51	3.994	
800.0	800.0	799.6	799.6	3.9	3.9	89.05	0.5	30.0	30.0	22.4	7.59	3.951	
855.0	855.0	854.6	854.6	4.0	3.9	89.05	0.5	30.0	30.0	22.3	7.70	3.896	
900.0	900.0	899.6	899.6	4.0	4.0	89.05	0.5	30.0	30.0	22.2	7.79	3.852	
950.0	950.0	949.6	949.6	4.1	4.1	89.05	0.5	30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	999.6	999.6	4.1	4.1	89.05	0.5	30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,044.6	1,044.6	4.2	4.2	89.05	0.5	30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,099.6	1,099.6	4.2	4.2	89.05	0.5	30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,139.6	1,139.6	4.3	4.3	89.05	0.5	30.0	30.0	21.8	8.24	3.640	
1,200.0	1,200.0	1,199.6	1,199.6	4.4	4.4	89.05	0.5	30.0	30.0	21.7	8.35	3.592	
1,235.0	1,235.0	1,234.6	1,234.6	4.4	4.4	89.05	0.5	30.0	30.0	21.6	8.41	3.566	
1,300.0	1,300.0	1,299.6	1,299.6	4.5	4.5	89.05	0.5	30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,329.6	1,329.6	4.5	4.5	89.05	0.5	30.0	30.0	21.4	8.58	3.495	
1,400.0	1,400.0	1,399.6	1,399.6	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,424.6	1,424.6	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.75	3.429	
1,500.0	1,500.0	1,499.6	1,499.6	4.7	4.7	89.05	0.5	30.0	30.0	21.1	8.88	3.379 CC	
1,520.0	1,520.0	1,519.8	1,519.8	4.7	4.7	161.21	0.5	29.9	30.0	21.1	8.95	3.354	
1,600.0	1,600.0	1,600.5	1,600.5	4.8	4.9	160.63	1.4	28.5	30.1	20.9	9.22	3.268	
1,615.0	1,615.0	1,615.6	1,615.6	4.9	4.9	160.43	1.6	28.0	30.2	20.9	9.30	3.247	
1,700.0	1,699.8	1,701.4	1,701.2	5.0	5.1	158.81	4.0	23.8	30.6	20.8	9.73	3.144 ES	
1,710.0	1,709.8	1,711.5	1,711.3	5.0	5.1	158.57	4.3	23.2	30.6	20.9	9.78	3.133	
1,800.0	1,799.5	1,802.3	1,801.7	5.3	5.3	155.90	8.3	16.1	31.3	21.1	10.22	3.065	
1,805.0	1,804.4	1,807.3	1,806.8	5.3	5.3	155.73	8.5	15.6	31.4	21.1	10.25	3.062	
1,900.0	1,898.7	1,903.2	1,901.8	5.6	5.6	152.07	14.3	5.3	32.5	21.8	10.71	3.037	
1,995.0	1,992.5	1,999.0	1,996.4	5.9	5.9	147.80	21.6	-7.8	34.1	23.0	11.16	3.061	
2,000.0	1,997.5	2,004.0	2,001.4	5.9	5.9	147.56	22.1	-8.6	34.2	23.1	11.18	3.063	
2,090.0	2,085.8	2,094.7	2,090.5	6.2	6.3	143.17	30.5	-23.7	36.3	24.8	11.57	3.139	
2,100.0	2,095.6	2,104.8	2,100.3	6.2	6.3	142.67	31.5	-25.5	36.6	25.0	11.62	3.150	
2,185.0	2,178.5	2,190.4	2,183.8	6.5	6.6	138.42	40.9	-42.3	39.1	27.2	11.96	3.272	
2,199.8	2,192.9	2,205.3	2,198.2	6.6	6.6	137.70	42.6	-45.4	39.6	27.6	12.02	3.299	
2,280.0	2,270.7	2,285.4	2,275.9	6.8	6.9	134.22	52.1	-62.3	42.6	30.3	12.30	3.461	
2,300.0	2,290.1	2,305.4	2,295.3	6.9	7.0	133.42	54.4	-66.6	43.3	30.9	12.37	3.502	
2,375.0	2,362.9	2,380.3	2,368.0	7.2	7.2	130.68	63.2	-82.4	46.2	33.6	12.63	3.656	
2,400.0	2,387.1	2,405.3	2,392.2	7.2	7.3	129.84	66.2	-87.7	47.2	34.5	12.72	3.708	
2,470.0	2,455.0	2,475.2	2,460.1	7.5	7.5	127.67	74.4	-102.4	50.0	37.0	12.98	3.851	
2,500.0	2,484.1	2,505.1	2,489.1	7.6	7.6	126.81	78.0	-108.8	51.2	38.1	13.09	3.912	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
2,565.0	2,547.2	2,570.1	2,552.1	7.8	7.9	125.09	85.6	-122.5	53.9	40.6	13.33	4.043
2,600.0	2,581.2	2,605.0	2,586.0	7.9	8.0	124.23	89.8	-129.9	55.3	41.9	13.46	4.112
2,660.0	2,639.4	2,665.0	2,644.2	8.2	8.2	122.86	96.8	-142.5	57.9	44.2	13.68	4.229
2,700.0	2,678.2	2,704.9	2,683.0	8.3	8.4	122.01	101.5	-151.0	59.6	45.7	13.83	4.307
2,755.0	2,731.6	2,759.9	2,736.3	8.5	8.6	120.92	108.0	-162.6	61.9	47.9	14.05	4.410
2,800.0	2,775.2	2,804.8	2,779.9	8.7	8.8	120.08	113.3	-172.1	63.9	49.7	14.22	4.494
2,850.0	2,823.8	2,854.7	2,828.3	8.9	9.0	119.22	119.2	-182.6	66.1	51.7	14.41	4.584
2,900.0	2,872.3	2,904.7	2,876.8	9.1	9.2	118.41	125.1	-193.2	68.3	53.7	14.61	4.673
2,945.0	2,915.9	2,949.6	2,920.4	9.3	9.3	117.72	130.4	-202.7	70.3	55.5	14.79	4.751
3,000.0	2,969.3	3,004.6	2,973.7	9.5	9.6	116.93	136.9	-214.3	72.7	57.7	15.01	4.845
3,040.0	3,008.1	3,044.5	3,012.5	9.7	9.7	116.39	141.6	-222.7	74.5	59.3	15.17	4.911
3,100.0	3,066.3	3,104.5	3,070.6	9.9	10.0	115.63	148.7	-235.4	77.2	61.8	15.41	5.008
3,135.0	3,100.3	3,139.4	3,104.6	10.1	10.1	115.20	152.8	-242.8	78.8	63.2	15.55	5.063
3,200.0	3,163.4	3,204.3	3,167.6	10.3	10.4	114.46	160.4	-256.5	81.7	65.9	15.82	5.164
3,230.0	3,192.5	3,234.3	3,196.6	10.5	10.5	114.14	164.0	-262.8	83.0	67.1	15.94	5.209
3,300.0	3,260.4	3,304.2	3,264.5	10.8	10.8	113.42	172.2	-277.6	86.2	70.0	16.23	5.312
3,325.0	3,284.7	3,329.2	3,288.7	10.9	10.9	113.18	175.2	-282.9	87.4	71.0	16.34	5.347
3,400.0	3,357.4	3,404.1	3,361.4	11.2	11.2	112.49	184.0	-298.7	90.8	74.1	16.65	5.452
3,420.0	3,376.8	3,424.1	3,380.8	11.3	11.3	112.31	186.4	-302.9	91.7	75.0	16.74	5.479
3,500.0	3,454.5	3,504.0	3,458.3	11.6	11.7	111.64	195.8	-319.8	95.4	78.3	17.08	5.585
3,515.0	3,469.0	3,519.0	3,472.8	11.7	11.7	111.52	197.5	-323.0	96.1	78.9	17.14	5.604
3,600.0	3,551.5	3,603.9	3,555.2	12.1	12.1	110.88	207.6	-340.9	100.0	82.5	17.51	5.711
3,610.0	3,561.2	3,613.9	3,564.9	12.1	12.2	110.80	208.7	-343.0	100.4	82.9	17.55	5.723
3,700.0	3,648.5	3,703.8	3,652.1	12.5	12.6	110.18	219.3	-362.0	104.6	86.7	17.94	5.831
3,705.0	3,653.4	3,708.8	3,657.0	12.5	12.6	110.14	219.9	-363.0	104.8	86.9	17.96	5.836
3,800.0	3,745.6	3,803.7	3,749.1	13.0	13.0	109.54	231.1	-383.1	109.2	90.9	18.38	5.944
3,895.0	3,837.7	3,898.5	3,841.1	13.4	13.4	108.98	242.3	-403.1	113.7	94.9	18.80	6.047
3,900.0	3,842.6	3,903.5	3,846.0	13.4	13.5	108.95	242.9	-404.2	113.9	95.1	18.82	6.052
3,990.0	3,929.9	3,993.4	3,933.2	13.8	13.9	108.46	253.5	-423.2	118.1	98.9	19.22	6.144
4,000.0	3,939.6	4,003.4	3,942.9	13.9	13.9	108.40	254.7	-425.3	118.5	99.3	19.26	6.154
4,085.0	4,022.1	4,088.3	4,025.3	14.3	14.3	107.98	264.7	-443.2	122.5	102.9	19.64	6.237
4,100.0	4,036.6	4,103.3	4,039.8	14.3	14.4	107.90	266.5	-446.4	123.2	103.5	19.71	6.251
4,180.0	4,114.3	4,183.2	4,117.3	14.7	14.7	107.53	275.9	-463.3	127.0	106.9	20.07	6.325
4,200.0	4,133.7	4,203.2	4,136.7	14.8	14.8	107.44	278.2	-467.5	127.9	107.7	20.16	6.343
4,275.0	4,206.5	4,278.1	4,209.4	15.1	15.2	107.11	287.1	-483.3	131.4	110.9	20.50	6.409
4,300.0	4,230.7	4,303.1	4,233.6	15.3	15.3	107.01	290.0	-488.6	132.6	112.0	20.62	6.430
4,370.0	4,298.6	4,373.0	4,301.5	15.6	15.6	106.72	298.3	-503.4	135.9	114.9	20.94	6.489
4,400.0	4,327.7	4,403.0	4,330.6	15.7	15.7	106.60	301.8	-509.7	137.3	116.2	21.07	6.514
4,465.0	4,390.8	4,467.9	4,393.6	16.0	16.0	106.36	309.5	-523.4	140.3	119.0	21.37	6.565
4,500.0	4,424.8	4,502.9	4,427.5	16.2	16.2	106.23	313.6	-530.8	142.0	120.4	21.53	6.593
4,560.0	4,483.0	4,562.8	4,485.6	16.5	16.5	106.02	320.7	-543.5	144.8	123.0	21.80	6.642
4,600.0	4,521.8	4,602.6	4,524.3	16.6	16.7	105.92	325.3	-551.8	146.7	124.7	21.97	6.676
4,655.0	4,575.2	4,657.3	4,577.6	16.9	16.9	106.11	331.3	-562.5	149.4	127.1	22.25	6.713
4,700.0	4,618.8	4,702.0	4,621.4	17.1	17.1	106.55	335.8	-570.6	151.6	129.1	22.50	6.737
4,750.0	4,667.4	4,751.6	4,670.0	17.3	17.4	107.33	340.4	-578.9	154.2	131.4	22.81	6.762
4,800.0	4,715.9	4,801.2	4,718.8	17.6	17.6	108.40	344.7	-586.4	157.0	133.8	23.15	6.780
4,845.0	4,759.5	4,845.6	4,762.7	17.8	17.8	109.58	348.1	-592.6	159.6	136.1	23.50	6.793
4,900.0	4,812.9	4,900.0	4,816.5	18.0	18.0	111.30	351.8	-599.3	163.1	139.1	23.98	6.801
4,940.0	4,851.7	4,939.1	4,855.3	18.2	18.2	112.70	354.2	-603.6	165.8	141.4	24.36	6.806
5,000.0	4,909.9	4,997.7	4,913.6	18.5	18.5	115.06	357.3	-609.1	170.4	145.3	25.03	6.807
5,035.0	4,943.9	5,031.8	4,947.5	18.7	18.6	116.54	358.8	-611.8	173.3	147.8	25.46	6.807

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

ConocoPhillips

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Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS						Rule Assigned:						Offset Well Error:	3.0 usft
Reference	Offset	Offset		Semi Major Axis		Offset Wellbore Centre			Distance						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,100.0	5,007.0	5,094.7	5,010.2	19.0	18.8	119.47	361.1	-615.9	179.4	153.0	26.34	6.810			
5,130.0	5,036.1	5,123.5	5,039.1	19.1	19.0	120.89	362.0	-617.4	182.5	155.7	26.79	6.814			
5,200.0	5,104.0	5,190.5	5,105.9	19.5	19.2	124.31	363.3	-619.9	190.7	162.8	27.90	6.837			
5,225.0	5,128.3	5,214.2	5,129.7	19.6	19.2	125.55	363.6	-620.5	194.0	165.7	28.31	6.853			
5,300.0	5,201.0	5,285.2	5,200.6	19.9	19.3	129.33	364.0	-621.1	204.9	175.3	29.56	6.931			
5,320.0	5,220.4	5,304.6	5,220.0	20.0	19.3	130.34	364.0	-621.1	208.0	178.1	29.89	6.959			
5,400.0	5,298.1	5,382.2	5,297.7	20.4	19.4	134.10	364.0	-621.1	221.2	190.0	31.22	7.087			
5,415.0	5,312.6	5,396.8	5,312.2	20.5	19.4	134.76	364.0	-621.1	223.8	192.4	31.46	7.115			
5,500.0	5,395.1	5,479.2	5,394.7	20.9	19.4	138.22	364.0	-621.1	238.9	206.2	32.74	7.298			
5,510.0	5,404.8	5,489.0	5,404.4	20.9	19.4	138.60	364.0	-621.1	240.8	207.9	32.89	7.322			
5,600.0	5,492.1	5,576.3	5,491.7	21.4	19.5	141.76	364.0	-621.1	257.7	223.6	34.12	7.553			
5,605.0	5,497.0	5,581.1	5,496.6	21.4	19.5	141.93	364.0	-621.1	258.7	224.5	34.18	7.567			
5,700.0	5,589.1	5,673.3	5,588.7	21.8	19.5	144.83	364.0	-621.1	277.3	241.9	35.37	7.841			
5,795.0	5,681.3	5,765.5	5,680.9	22.3	19.6	147.36	364.0	-621.1	296.6	260.1	36.45	8.137			
5,800.0	5,686.2	5,770.3	5,685.8	22.3	19.6	147.49	364.0	-621.1	297.6	261.1	36.50	8.153			
5,890.0	5,773.5	5,857.7	5,773.1	22.8	19.6	149.59	364.0	-621.1	316.3	278.9	37.44	8.447			
5,900.0	5,783.2	5,867.4	5,782.8	22.8	19.6	149.81	364.0	-621.1	318.4	280.9	37.54	8.481			
5,985.0	5,865.7	5,949.9	5,865.3	23.2	19.6	151.56	364.0	-621.1	336.5	298.1	38.37	8.769			
6,000.0	5,880.2	5,964.4	5,879.8	23.3	19.6	151.85	364.0	-621.1	339.7	301.2	38.51	8.821			
6,080.0	5,957.9	6,042.0	5,957.5	23.7	19.7	153.30	364.0	-621.1	357.0	317.7	39.24	9.098			
6,100.0	5,977.3	6,061.4	5,976.9	23.8	19.7	153.65	364.0	-621.1	361.3	321.9	39.41	9.168			
6,175.0	6,050.0	6,134.2	6,049.6	24.1	19.7	154.86	364.0	-621.1	377.7	337.7	40.05	9.431			
6,200.0	6,074.3	6,158.5	6,073.9	24.2	19.7	155.24	364.0	-621.1	383.3	343.0	40.26	9.519			
6,270.0	6,142.2	6,226.4	6,141.8	24.6	19.8	156.26	364.0	-621.1	398.8	357.9	40.83	9.766			
6,299.8	6,171.1	6,255.3	6,170.7	24.7	19.8	156.67	364.0	-621.1	405.4	364.3	41.07	9.872			
6,365.0	6,234.6	6,318.7	6,234.2	25.0	19.8	157.59	364.0	-621.1	419.3	377.8	41.57	10.087			
6,400.0	6,268.8	6,352.9	6,268.4	25.2	19.8	158.02	364.0	-621.1	426.3	384.5	41.83	10.191			
6,460.0	6,327.6	6,411.8	6,327.2	25.5	19.9	158.68	364.0	-621.1	437.3	395.1	42.25	10.351			
6,500.0	6,366.9	6,451.1	6,366.5	25.7	19.9	159.07	364.0	-621.1	444.1	401.6	42.52	10.444			
6,555.0	6,421.2	6,505.3	6,420.8	25.9	19.9	159.54	364.0	-621.1	452.5	409.7	42.87	10.556			
6,600.0	6,465.7	6,549.9	6,465.3	26.1	19.9	159.87	364.0	-621.1	458.7	415.6	43.14	10.633			
6,650.0	6,515.3	6,599.4	6,514.9	26.4	19.9	160.19	364.0	-621.1	464.9	421.4	43.43	10.704			
6,700.0	6,564.9	6,649.1	6,564.5	26.6	20.0	160.46	364.0	-621.1	470.2	426.5	43.71	10.758			
6,745.0	6,609.7	6,693.9	6,609.3	26.8	20.0	160.66	364.0	-621.1	474.3	430.4	43.93	10.795			
6,800.0	6,664.6	6,748.7	6,664.2	27.0	20.0	160.86	364.0	-621.1	478.4	434.2	44.21	10.822			
6,840.0	6,704.5	6,788.6	6,704.1	27.1	20.0	160.97	364.0	-621.1	480.8	436.4	44.38	10.833			
6,900.0	6,764.4	6,848.6	6,764.0	27.3	20.1	161.09	364.0	-621.1	483.3	438.7	44.63	10.829			
6,935.0	6,799.4	6,883.6	6,799.0	27.4	20.1	161.14	364.0	-621.1	484.3	439.6	44.72	10.830			
6,999.6	6,864.0	6,948.2	6,863.6	27.5	20.1	88.98	364.0	-621.1	485.0	440.1	44.86	10.810			
7,030.0	6,894.4	6,978.6	6,894.0	27.5	20.1	88.98	364.0	-621.1	485.0	440.1	44.89	10.804			
7,100.0	6,964.4	7,048.6	6,964.0	27.5	20.2	88.98	364.0	-621.1	485.0	440.0	44.95	10.790			
7,125.0	6,989.4	7,073.6	6,989.0	27.5	20.2	88.98	364.0	-621.1	485.0	440.0	44.97	10.785			
7,200.0	7,064.4	7,148.6	7,064.0	27.6	20.2	88.98	364.0	-621.1	485.0	439.9	45.03	10.770			
7,220.0	7,084.4	7,168.6	7,084.0	27.6	20.2	88.98	364.0	-621.1	485.0	439.9	45.05	10.766			
7,300.0	7,164.4	7,248.6	7,164.0	27.6	20.2	88.98	364.0	-621.1	485.0	439.9	45.11	10.750			
7,315.0	7,179.4	7,263.6	7,179.0	27.6	20.3	88.98	364.0	-621.1	485.0	439.9	45.12	10.747			
7,400.0	7,264.4	7,348.6	7,264.0	27.6	20.3	88.98	364.0	-621.1	485.0	439.8	45.20	10.730			
7,410.0	7,274.4	7,358.6	7,274.0	27.6	20.3	88.98	364.0	-621.1	485.0	439.8	45.21	10.728			
7,500.0	7,364.4	7,448.6	7,364.0	27.7	20.3	88.98	364.0	-621.1	485.0	439.7	45.28	10.710			
7,505.0	7,369.4	7,453.6	7,369.0	27.7	20.3	88.98	364.0	-621.1	485.0	439.7	45.29	10.709			
7,600.0	7,464.4	7,548.6	7,464.0	27.7	20.4	88.98	364.0	-621.1	485.0	439.6	45.37	10.690			

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Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
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Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,695.0	7,559.4	7,643.6	7,559.0	27.7	20.4	88.98	364.0	-621.1	485.0	439.5	45.45	10.671		
7,700.0	7,564.4	7,648.6	7,564.0	27.7	20.4	88.98	364.0	-621.1	485.0	439.5	45.45	10.670		
7,790.0	7,654.4	7,738.6	7,654.0	27.8	20.5	88.98	364.0	-621.1	485.0	439.4	45.53	10.652		
7,800.0	7,664.4	7,748.6	7,664.0	27.8	20.5	88.98	364.0	-621.1	485.0	439.4	45.54	10.650		
7,885.0	7,749.4	7,833.6	7,749.0	27.8	20.5	88.98	364.0	-621.1	485.0	439.4	45.61	10.633		
7,900.0	7,764.4	7,848.6	7,764.0	27.8	20.5	88.98	364.0	-621.1	485.0	439.4	45.62	10.630		
7,980.0	7,844.4	7,928.6	7,844.0	27.8	20.6	88.98	364.0	-621.1	485.0	439.3	45.69	10.614		
8,000.0	7,864.4	7,948.6	7,864.0	27.8	20.6	88.98	364.0	-621.1	485.0	439.3	45.71	10.610		
8,075.0	7,939.4	8,023.6	7,939.0	27.8	20.6	88.98	364.0	-621.1	485.0	439.2	45.78	10.595		
8,100.0	7,964.4	8,048.6	7,964.0	27.9	20.6	88.98	364.0	-621.1	485.0	439.2	45.80	10.590		
8,170.0	8,034.4	8,118.6	8,034.0	27.9	20.7	88.98	364.0	-621.1	485.0	439.1	45.86	10.575		
8,200.0	8,064.4	8,148.6	8,064.0	27.9	20.7	88.98	364.0	-621.1	485.0	439.1	45.89	10.569		
8,265.0	8,129.4	8,213.6	8,129.0	27.9	20.7	88.98	364.0	-621.1	485.0	439.0	45.94	10.556		
8,300.0	8,164.4	8,248.6	8,164.0	27.9	20.7	88.98	364.0	-621.1	485.0	439.0	45.97	10.549		
8,360.0	8,224.4	8,308.6	8,224.0	27.9	20.8	88.98	364.0	-621.1	485.0	438.9	46.03	10.537		
8,400.0	8,264.4	8,348.6	8,264.0	28.0	20.8	88.98	364.0	-621.1	485.0	438.9	46.06	10.529		
8,455.0	8,319.4	8,403.6	8,319.0	28.0	20.8	88.98	364.0	-621.1	485.0	438.9	46.10	10.519		
8,486.6	8,351.0	8,435.2	8,350.6	28.0	20.8	88.98	364.0	-621.1	485.0	438.9	46.12	10.516		
8,500.0	8,364.4	8,448.6	8,364.0	28.0	20.8	-91.54	364.0	-621.1	485.0	438.9	46.12	10.516		
8,550.0	8,414.3	8,499.8	8,415.2	28.0	20.8	-91.66	361.6	-621.1	485.0	438.9	46.13	10.514		
8,600.0	8,463.7	8,551.1	8,466.0	28.0	20.9	-91.77	354.7	-621.2	485.0	438.9	46.14	10.512		
8,645.0	8,507.4	8,597.3	8,511.1	28.0	20.9	-91.86	344.6	-621.3	485.1	438.9	46.15	10.510		
8,650.0	8,512.2	8,602.5	8,516.0	28.0	20.9	-91.87	343.2	-621.3	485.1	438.9	46.16	10.509		
8,700.0	8,559.5	8,653.9	8,564.9	28.0	20.9	-91.95	327.3	-621.4	485.1	438.9	46.17	10.505		
8,740.0	8,596.2	8,695.1	8,602.9	28.0	20.9	-92.00	311.4	-621.6	485.1	438.9	46.19	10.502		
8,750.0	8,605.2	8,705.4	8,612.2	28.0	20.9	-92.01	307.0	-621.6	485.1	438.9	46.20	10.500		
8,800.0	8,649.0	8,757.0	8,657.6	28.0	21.0	-92.06	282.5	-621.8	485.1	438.9	46.23	10.494		
8,835.0	8,678.3	8,793.1	8,688.0	28.0	21.0	-92.09	263.0	-622.0	485.1	438.9	46.25	10.489		
8,850.0	8,690.5	8,808.5	8,700.6	28.1	21.0	-92.10	254.0	-622.1	485.1	438.9	46.26	10.487		
8,900.0	8,729.5	8,860.2	8,740.9	28.1	21.0	-92.11	221.8	-622.4	485.1	438.8	46.30	10.477		
8,930.0	8,751.5	8,891.1	8,763.6	28.1	21.1	-92.11	200.8	-622.5	485.1	438.8	46.33	10.471		
8,950.0	8,765.5	8,911.8	8,778.1	28.1	21.1	-92.11	186.1	-622.7	485.1	438.8	46.35	10.467		
9,000.0	8,798.4	8,963.4	8,811.9	28.1	21.1	-92.10	147.1	-623.0	485.1	438.7	46.41	10.454		
9,025.0	8,813.6	8,989.2	8,827.5	28.1	21.1	-92.08	126.6	-623.2	485.1	438.7	46.44	10.447		
9,050.0	8,827.9	9,015.0	8,842.1	28.1	21.2	-92.06	105.3	-623.4	485.1	438.7	46.47	10.439		
9,100.0	8,853.8	9,066.5	8,868.4	28.2	21.2	-92.01	61.0	-623.8	485.1	438.6	46.54	10.423		
9,120.0	8,863.1	9,087.1	8,877.8	28.2	21.2	-91.99	42.7	-624.0	485.1	438.5	46.57	10.416		
9,150.0	8,875.8	9,118.0	8,890.6	28.2	21.2	-91.95	14.6	-624.2	485.1	438.5	46.62	10.405		
9,200.0	8,893.9	9,169.5	8,908.5	28.2	21.3	-91.87	-33.7	-624.6	485.1	438.4	46.71	10.385		
9,215.0	8,898.5	9,184.9	8,913.0	28.3	21.3	-91.84	-48.4	-624.8	485.1	438.3	46.74	10.378		
9,250.0	8,907.8	9,220.8	8,922.0	28.3	21.4	-91.77	-83.2	-625.1	485.0	438.2	46.81	10.363		
9,300.0	8,917.5	9,272.1	8,931.0	28.3	21.4	-91.67	-133.7	-625.5	485.0	438.1	46.91	10.340		
9,310.0	8,918.9	9,282.4	8,932.3	28.3	21.4	-91.64	-143.9	-625.6	485.0	438.1	46.93	10.335		
9,350.0	8,922.8	9,323.3	8,935.5	28.4	21.5	-91.54	-184.7	-626.0	485.0	438.0	47.02	10.315		
9,385.4	8,924.0	9,359.3	8,936.0	28.4	21.5	-91.47	-220.6	-626.3	485.0	437.9	47.09	10.298		
9,385.6	8,924.0	9,359.4	8,936.0	28.4	21.5	-91.47	-220.7	-626.3	485.0	437.9	47.09	10.298		
9,400.0	8,924.0	9,373.8	8,936.0	28.4	21.5	-91.47	-235.2	-626.4	485.0	437.8	47.12	10.292		
9,405.0	8,924.0	9,378.8	8,936.1	28.5	21.5	-91.47	-240.2	-626.5	485.0	437.8	47.13	10.289		
9,500.0	8,924.2	9,473.8	8,936.2	28.6	21.7	-91.46	-335.2	-627.3	485.0	437.6	47.38	10.235		
9,595.0	8,924.4	9,568.8	8,936.4	28.7	21.8	-91.46	-430.2	-628.2	485.0	437.3	47.68	10.172		
9,600.0	8,924.4	9,573.8	8,936.4	28.7	21.8	-91.46	-435.2	-628.2	485.0	437.3	47.69	10.169		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,690.0	8,924.6	9,663.8	8,936.5	28.9	22.0	-91.46	-525.2	-629.0	485.0	437.0	48.01	10.101		
9,700.0	8,924.6	9,673.8	8,936.5	28.9	22.0	-91.46	-535.2	-629.1	485.0	436.9	48.05	10.093		
9,785.0	8,924.8	9,758.8	8,936.7	29.0	22.2	-91.45	-620.2	-629.8	485.0	436.6	48.39	10.022		
9,800.0	8,924.8	9,773.8	8,936.7	29.1	22.2	-91.45	-635.2	-630.0	485.0	436.5	48.45	10.009		
9,880.0	8,924.9	9,853.8	8,936.8	29.2	22.4	-91.45	-715.2	-630.7	485.0	436.2	48.81	9.935		
9,900.0	8,925.0	9,873.8	8,936.9	29.3	22.4	-91.45	-735.2	-630.9	485.0	436.1	48.90	9.917		
9,975.0	8,925.1	9,948.8	8,937.0	29.4	22.6	-91.45	-810.2	-631.5	485.0	435.7	49.27	9.843		
10,000.0	8,925.2	9,973.8	8,937.0	29.5	22.7	-91.45	-835.2	-631.7	485.0	435.6	49.40	9.818		
10,070.0	8,925.3	10,043.8	8,937.1	29.7	22.8	-91.45	-905.2	-632.4	485.0	435.2	49.77	9.744		
10,100.0	8,925.3	10,073.8	8,937.2	29.7	22.9	-91.44	-935.2	-632.6	485.0	435.0	49.93	9.712		
10,165.0	8,925.5	10,138.8	8,937.3	29.9	23.1	-91.44	-1,000.1	-633.2	485.0	434.7	50.31	9.640		
10,200.0	8,925.5	10,173.8	8,937.3	30.0	23.2	-91.44	-1,035.1	-633.5	485.0	434.5	50.51	9.602		
10,260.0	8,925.6	10,233.8	8,937.4	30.1	23.4	-91.44	-1,095.1	-634.1	485.0	434.1	50.88	9.532		
10,300.0	8,925.7	10,273.8	8,937.5	30.2	23.5	-91.44	-1,135.1	-634.4	485.0	433.9	51.13	9.486		
10,355.0	8,925.8	10,328.8	8,937.6	30.4	23.7	-91.44	-1,190.1	-634.9	485.0	433.5	51.48	9.420		
10,400.0	8,925.9	10,373.8	8,937.7	30.5	23.8	-91.44	-1,235.1	-635.3	485.0	433.2	51.78	9.366		
10,450.0	8,926.0	10,423.8	8,937.7	30.7	24.0	-91.43	-1,285.1	-635.7	485.0	432.9	52.12	9.304		
10,500.0	8,926.1	10,473.8	8,937.8	30.8	24.2	-91.43	-1,335.1	-636.2	485.0	432.5	52.47	9.243		
10,545.0	8,926.2	10,518.8	8,937.9	30.9	24.3	-91.43	-1,380.1	-636.6	485.0	432.2	52.80	9.186		
10,600.0	8,926.3	10,573.8	8,938.0	31.1	24.5	-91.43	-1,435.1	-637.1	485.0	431.8	53.20	9.117		
10,640.0	8,926.4	10,613.8	8,938.0	31.2	24.6	-91.43	-1,475.1	-637.4	485.0	431.5	53.50	9.065		
10,700.0	8,926.5	10,673.8	8,938.1	31.4	24.9	-91.43	-1,535.1	-638.0	485.0	431.0	53.96	8.988		
10,735.0	8,926.5	10,708.8	8,938.2	31.5	25.0	-91.42	-1,570.1	-638.3	485.0	430.7	54.23	8.943		
10,800.0	8,926.7	10,773.8	8,938.3	31.8	25.3	-91.42	-1,635.1	-638.8	485.0	430.2	54.75	8.858		
10,830.0	8,926.7	10,803.8	8,938.4	31.9	25.4	-91.42	-1,665.1	-639.1	485.0	430.0	54.99	8.819		
10,900.0	8,926.9	10,873.8	8,938.5	32.1	25.7	-91.42	-1,735.1	-639.7	485.0	429.4	55.57	8.727		
10,925.0	8,926.9	10,898.8	8,938.5	32.2	25.8	-91.42	-1,760.1	-640.0	485.0	429.2	55.78	8.694		
11,000.0	8,927.0	10,973.8	8,938.6	32.5	26.1	-91.42	-1,835.1	-640.6	485.0	428.6	56.42	8.595		
11,020.0	8,927.1	10,993.8	8,938.7	32.5	26.2	-91.42	-1,855.1	-640.8	485.0	428.4	56.60	8.569		
11,100.0	8,927.2	11,073.8	8,938.8	32.8	26.5	-91.41	-1,935.1	-641.5	485.0	427.7	57.30	8.464		
11,115.0	8,927.3	11,088.8	8,938.8	32.9	26.6	-91.41	-1,950.1	-641.6	485.0	427.5	57.44	8.444		
11,200.0	8,927.4	11,173.8	8,939.0	33.2	27.0	-91.41	-2,035.1	-642.4	485.0	426.8	58.21	8.332		
11,210.0	8,927.4	11,183.8	8,939.0	33.3	27.0	-91.41	-2,045.1	-642.5	485.0	426.7	58.30	8.319		
11,300.0	8,927.6	11,273.8	8,939.1	33.6	27.5	-91.41	-2,135.1	-643.3	485.0	425.8	59.14	8.201		
11,305.0	8,927.6	11,278.8	8,939.1	33.6	27.5	-91.41	-2,140.1	-643.3	485.0	425.8	59.19	8.194		
11,400.0	8,927.8	11,373.8	8,939.3	34.0	27.9	-91.40	-2,235.1	-644.2	485.0	424.9	60.10	8.070		
11,495.0	8,928.0	11,468.8	8,939.4	34.4	28.4	-91.40	-2,330.1	-645.0	485.0	424.0	61.03	7.947		
11,500.0	8,928.0	11,473.8	8,939.4	34.5	28.4	-91.40	-2,335.1	-645.1	485.0	423.9	61.07	7.941		
11,590.0	8,928.2	11,563.8	8,939.6	34.8	28.9	-91.40	-2,425.1	-645.9	485.0	423.0	61.98	7.826		
11,600.0	8,928.2	11,573.8	8,939.6	34.9	28.9	-91.40	-2,435.1	-645.9	485.0	422.9	62.08	7.813		
11,685.0	8,928.3	11,658.8	8,939.7	35.3	29.4	-91.39	-2,520.1	-646.7	485.0	422.0	62.94	7.705		
11,700.0	8,928.4	11,673.8	8,939.8	35.3	29.5	-91.39	-2,535.1	-646.8	485.0	421.9	63.10	7.686		
11,780.0	8,928.5	11,753.8	8,939.9	35.7	29.9	-91.39	-2,615.1	-647.5	485.0	421.1	63.93	7.586		
11,800.0	8,928.6	11,773.8	8,939.9	35.8	30.0	-91.39	-2,635.1	-647.7	485.0	420.8	64.14	7.562		
11,875.0	8,928.7	11,848.8	8,940.0	36.1	30.4	-91.39	-2,710.1	-648.4	485.0	420.1	64.93	7.469		
11,900.0	8,928.7	11,873.8	8,940.1	36.2	30.5	-91.39	-2,735.1	-648.6	485.0	419.8	65.20	7.439		
11,970.0	8,928.9	11,943.8	8,940.2	36.6	30.9	-91.38	-2,805.1	-649.2	485.0	419.0	65.95	7.354		
12,000.0	8,928.9	11,973.8	8,940.2	36.7	31.1	-91.38	-2,835.1	-649.5	485.0	418.7	66.28	7.318		
12,065.0	8,929.1	12,038.8	8,940.3	37.0	31.5	-91.38	-2,900.1	-650.1	485.0	418.0	66.99	7.240		
12,100.0	8,929.1	12,073.8	8,940.4	37.2	31.6	-91.38	-2,935.1	-650.4	485.0	417.6	67.37	7.199		
12,160.0	8,929.2	12,133.8	8,940.5	37.5	32.0	-91.38	-2,995.1	-650.9	485.0	417.0	68.04	7.128		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,200.0	8,929.3	12,173.8	8,940.6	37.7	32.2	-91.38	-3,035.1	-651.3	485.0	416.5	68.48	7.082		
12,255.0	8,929.4	12,228.8	8,940.7	38.0	32.5	-91.38	-3,090.1	-651.8	485.0	415.9	69.10	7.018		
12,300.0	8,929.5	12,273.8	8,940.7	38.2	32.8	-91.37	-3,135.1	-652.2	485.0	415.4	69.61	6.967		
12,350.0	8,929.6	12,323.8	8,940.8	38.5	33.1	-91.37	-3,185.1	-652.6	485.0	414.8	70.18	6.910		
12,400.0	8,929.7	12,373.8	8,940.9	38.7	33.4	-91.37	-3,235.1	-653.1	485.0	414.2	70.75	6.855		
12,445.0	8,929.8	12,418.8	8,941.0	38.9	33.7	-91.37	-3,280.1	-653.4	485.0	413.7	71.27	6.805		
12,500.0	8,929.9	12,473.8	8,941.1	39.2	34.0	-91.37	-3,335.1	-653.9	485.0	413.1	71.91	6.744		
12,540.0	8,930.0	12,513.8	8,941.1	39.4	34.2	-91.37	-3,375.1	-654.3	485.0	412.6	72.38	6.701		
12,600.0	8,930.1	12,573.8	8,941.2	39.8	34.6	-91.36	-3,435.0	-654.8	485.0	411.9	73.08	6.636		
12,635.0	8,930.1	12,608.8	8,941.3	39.9	34.8	-91.36	-3,470.0	-655.1	485.0	411.5	73.49	6.599		
12,700.0	8,930.3	12,673.8	8,941.4	40.3	35.2	-91.36	-3,535.0	-655.7	485.0	410.7	74.26	6.531		
12,730.0	8,930.3	12,703.8	8,941.4	40.5	35.4	-91.36	-3,565.0	-656.0	485.0	410.4	74.62	6.499		
12,800.0	8,930.4	12,773.8	8,941.5	40.8	35.8	-91.36	-3,635.0	-656.6	485.0	409.5	75.46	6.427		
12,825.0	8,930.5	12,798.8	8,941.6	41.0	36.0	-91.36	-3,660.0	-656.8	485.0	409.2	75.76	6.402		
12,900.0	8,930.6	12,873.8	8,941.7	41.4	36.4	-91.36	-3,735.0	-657.5	485.0	408.3	76.67	6.326		
12,920.0	8,930.7	12,893.8	8,941.7	41.5	36.6	-91.35	-3,755.0	-657.7	485.0	408.1	76.91	6.306		
13,000.0	8,930.8	12,973.8	8,941.9	41.9	37.1	-91.35	-3,835.0	-658.4	485.0	407.1	77.88	6.227		
13,015.0	8,930.8	12,988.8	8,941.9	42.0	37.2	-91.35	-3,850.0	-658.5	485.0	406.9	78.07	6.213		
13,100.0	8,931.0	13,073.8	8,942.0	42.5	37.7	-91.35	-3,935.0	-659.3	485.0	405.9	79.11	6.131		
13,110.0	8,931.0	13,083.8	8,942.0	42.6	37.8	-91.35	-3,945.0	-659.4	485.0	405.8	79.23	6.121		
13,200.0	8,931.2	13,173.8	8,942.2	43.1	38.3	-91.35	-4,035.0	-660.2	485.0	404.6	80.35	6.036		
13,205.0	8,931.2	13,178.8	8,942.2	43.1	38.4	-91.35	-4,040.0	-660.2	485.0	404.6	80.41	6.031		
13,300.0	8,931.4	13,273.8	8,942.3	43.6	39.0	-91.34	-4,135.0	-661.0	485.0	403.4	81.60	5.944		
13,395.0	8,931.6	13,368.8	8,942.5	44.2	39.6	-91.34	-4,230.0	-661.9	485.0	402.2	82.79	5.858		
13,400.0	8,931.6	13,373.8	8,942.5	44.2	39.6	-91.34	-4,235.0	-661.9	485.0	402.1	82.86	5.854		
13,490.0	8,931.7	13,463.8	8,942.7	44.7	40.2	-91.34	-4,325.0	-662.7	485.0	401.0	83.99	5.774		
13,500.0	8,931.8	13,473.8	8,942.7	44.8	40.3	-91.34	-4,335.0	-662.8	485.0	400.9	84.12	5.765		
13,585.0	8,931.9	13,558.8	8,942.8	45.3	40.8	-91.33	-4,420.0	-663.6	485.0	399.8	85.20	5.692		
13,600.0	8,931.9	13,573.8	8,942.8	45.4	40.9	-91.33	-4,435.0	-663.7	485.0	399.6	85.40	5.679		
13,680.0	8,932.1	13,653.8	8,943.0	45.9	41.5	-91.33	-4,515.0	-664.4	485.0	398.6	86.42	5.612		
13,700.0	8,932.1	13,673.8	8,943.0	46.0	41.6	-91.33	-4,535.0	-664.6	485.0	398.3	86.68	5.595		
13,775.0	8,932.3	13,748.8	8,943.1	46.4	42.1	-91.33	-4,610.0	-665.3	485.0	397.4	87.65	5.534		
13,800.0	8,932.3	13,773.8	8,943.2	46.6	42.3	-91.33	-4,635.0	-665.5	485.0	397.0	87.97	5.513		
13,870.0	8,932.5	13,843.8	8,943.3	47.0	42.7	-91.32	-4,705.0	-666.1	485.0	396.1	88.88	5.457		
13,900.0	8,932.5	13,873.8	8,943.3	47.2	42.9	-91.32	-4,735.0	-666.4	485.0	395.7	89.27	5.433		
13,965.0	8,932.6	13,938.8	8,943.4	47.6	43.4	-91.32	-4,800.0	-666.9	485.0	394.9	90.11	5.382		
14,000.0	8,932.7	13,973.8	8,943.5	47.8	43.6	-91.32	-4,835.0	-667.3	485.0	394.4	90.57	5.355		
14,060.0	8,932.8	14,033.8	8,943.6	48.2	44.0	-91.32	-4,895.0	-667.8	485.0	393.6	91.36	5.309		
14,100.0	8,932.9	14,073.8	8,943.6	48.4	44.3	-91.32	-4,935.0	-668.1	485.0	393.1	91.88	5.278		
14,155.0	8,933.0	14,128.8	8,943.7	48.8	44.7	-91.31	-4,990.0	-668.6	485.0	392.4	92.61	5.237		
14,200.0	8,933.1	14,173.8	8,943.8	49.0	45.0	-91.31	-5,035.0	-669.0	485.0	391.8	93.20	5.204		
14,250.0	8,933.2	14,223.8	8,943.9	49.3	45.3	-91.31	-5,085.0	-669.5	485.0	391.1	93.86	5.167		
14,300.0	8,933.3	14,273.8	8,944.0	49.7	45.6	-91.31	-5,135.0	-669.9	485.0	390.5	94.53	5.131		
14,345.0	8,933.4	14,318.8	8,944.0	49.9	45.9	-91.31	-5,180.0	-670.3	485.0	389.9	95.12	5.099		
14,400.0	8,933.5	14,373.8	8,944.1	50.3	46.3	-91.31	-5,235.0	-670.8	485.0	389.2	95.86	5.060		
14,440.0	8,933.5	14,413.8	8,944.2	50.5	46.6	-91.31	-5,275.0	-671.2	485.0	388.6	96.39	5.032		
14,500.0	8,933.6	14,473.8	8,944.3	50.9	47.0	-91.30	-5,335.0	-671.7	485.0	387.8	97.19	4.990		
14,535.0	8,933.7	14,508.8	8,944.3	51.1	47.2	-91.30	-5,370.0	-672.0	485.0	387.3	97.66	4.966		
14,600.0	8,933.8	14,573.8	8,944.4	51.6	47.7	-91.30	-5,435.0	-672.6	485.0	386.5	98.53	4.922		
14,630.0	8,933.9	14,603.8	8,944.5	51.7	47.9	-91.30	-5,465.0	-672.8	485.0	386.1	98.94	4.902		
14,700.0	8,934.0	14,673.8	8,944.6	52.2	48.4	-91.30	-5,535.0	-673.5	485.0	385.1	99.88	4.856		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-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
14,725.0	8,934.1	14,698.8	8,944.6	52.4	48.6	-91.30	-5,560.0	-673.7	485.0	384.8	100.22	4.840	
14,800.0	8,934.2	14,773.8	8,944.8	52.8	49.1	-91.29	-5,635.0	-674.4	485.0	383.8	101.23	4.791	
14,820.0	8,934.3	14,793.8	8,944.8	53.0	49.2	-91.29	-5,655.0	-674.5	485.0	383.5	101.50	4.778	
14,900.0	8,934.4	14,873.8	8,944.9	53.5	49.8	-91.29	-5,735.0	-675.2	485.0	382.4	102.59	4.728	
14,915.0	8,934.4	14,888.8	8,945.0	53.6	49.9	-91.29	-5,750.0	-675.4	485.0	382.2	102.79	4.718	
15,000.0	8,934.6	14,973.8	8,945.1	54.1	50.5	-91.29	-5,835.0	-676.1	485.0	381.1	103.95	4.666	
15,010.0	8,934.6	14,983.8	8,945.1	54.2	50.5	-91.29	-5,845.0	-676.2	485.0	380.9	104.09	4.660	
15,100.0	8,934.8	15,073.8	8,945.3	54.8	51.2	-91.28	-5,934.9	-677.0	485.0	379.7	105.32	4.605	
15,105.0	8,934.8	15,078.8	8,945.3	54.8	51.2	-91.28	-5,939.9	-677.1	485.0	379.6	105.39	4.602	
15,200.0	8,935.0	15,173.8	8,945.4	55.4	51.9	-91.28	-6,034.9	-677.9	485.0	378.3	106.69	4.546	
15,295.0	8,935.1	15,268.8	8,945.6	56.1	52.5	-91.28	-6,129.9	-678.7	485.0	377.0	107.99	4.491	
15,300.0	8,935.2	15,273.8	8,945.6	56.1	52.6	-91.28	-6,134.9	-678.8	485.0	377.0	108.06	4.488	
15,390.0	8,935.3	15,363.8	8,945.7	56.7	53.2	-91.28	-6,224.9	-679.6	485.0	375.7	109.30	4.437	
15,400.0	8,935.3	15,373.8	8,945.7	56.8	53.3	-91.27	-6,234.9	-679.7	485.0	375.6	109.44	4.432	
15,485.0	8,935.5	15,458.8	8,945.9	57.3	53.9	-91.27	-6,319.9	-680.4	485.0	374.4	110.62	4.385	
15,500.0	8,935.5	15,473.8	8,945.9	57.4	54.0	-91.27	-6,334.9	-680.6	485.0	374.2	110.82	4.376	
15,580.0	8,935.7	15,553.8	8,946.0	57.9	54.6	-91.27	-6,414.9	-681.3	485.0	373.1	111.93	4.333	
15,600.0	8,935.7	15,573.8	8,946.1	58.1	54.7	-91.27	-6,434.9	-681.5	485.0	372.8	112.21	4.322	
15,675.0	8,935.9	15,648.8	8,946.2	58.6	55.2	-91.27	-6,509.9	-682.1	485.0	371.8	113.25	4.283	
15,700.0	8,935.9	15,673.8	8,946.2	58.7	55.4	-91.27	-6,534.9	-682.3	485.0	371.4	113.60	4.269	
15,770.0	8,936.0	15,743.8	8,946.3	59.2	55.9	-91.26	-6,604.9	-683.0	485.0	370.4	114.58	4.233	
15,800.0	8,936.1	15,773.8	8,946.4	59.4	56.1	-91.26	-6,634.9	-683.2	485.0	370.0	114.99	4.218	
15,865.0	8,936.2	15,838.8	8,946.5	59.9	56.6	-91.26	-6,699.9	-683.8	485.0	369.1	115.90	4.185	
15,900.0	8,936.3	15,873.8	8,946.5	60.1	56.8	-91.26	-6,734.9	-684.1	485.0	368.6	116.39	4.167	
15,960.0	8,936.4	15,933.8	8,946.6	60.5	57.3	-91.26	-6,794.9	-684.7	485.0	367.8	117.23	4.137	
16,000.0	8,936.5	15,973.8	8,946.7	60.8	57.5	-91.26	-6,834.9	-685.0	485.0	367.2	117.79	4.118	
16,055.0	8,936.6	16,028.8	8,946.8	61.1	57.9	-91.25	-6,889.9	-685.5	485.0	366.5	118.56	4.091	
16,100.0	8,936.7	16,073.8	8,946.9	61.4	58.3	-91.25	-6,934.9	-685.9	485.0	365.8	119.19	4.069	
16,150.0	8,936.8	16,123.8	8,946.9	61.8	58.6	-91.25	-6,984.9	-686.3	485.0	365.1	119.90	4.045	
16,200.0	8,936.9	16,173.8	8,947.0	62.1	59.0	-91.25	-7,034.9	-686.8	485.0	364.4	120.60	4.022	
16,245.0	8,936.9	16,218.8	8,947.1	62.4	59.3	-91.25	-7,079.9	-687.2	485.0	363.8	121.23	4.001	
16,300.0	8,937.0	16,273.8	8,947.2	62.8	59.7	-91.25	-7,134.9	-687.7	485.0	363.0	122.01	3.975	
16,340.0	8,937.1	16,313.8	8,947.3	63.1	60.0	-91.24	-7,174.9	-688.0	485.0	362.4	122.57	3.957	
16,400.0	8,937.2	16,373.8	8,947.4	63.5	60.4	-91.24	-7,234.9	-688.6	485.0	361.6	123.42	3.930	
16,435.0	8,937.3	16,408.8	8,947.4	63.7	60.7	-91.24	-7,269.9	-688.9	485.0	361.1	123.92	3.914	
16,500.0	8,937.4	16,473.8	8,947.5	64.2	61.1	-91.24	-7,334.9	-689.4	485.0	360.2	124.84	3.885	
16,530.0	8,937.5	16,503.8	8,947.6	64.4	61.4	-91.24	-7,364.9	-689.7	485.0	359.8	125.26	3.872	
16,600.0	8,937.6	16,573.8	8,947.7	64.9	61.9	-91.24	-7,434.9	-690.3	485.0	358.8	126.25	3.842	
16,625.0	8,937.7	16,598.8	8,947.7	65.0	62.0	-91.24	-7,459.9	-690.6	485.0	358.4	126.61	3.831	
16,700.0	8,937.8	16,673.8	8,947.8	65.5	62.6	-91.23	-7,534.9	-691.2	485.0	357.4	127.67	3.799	
16,720.0	8,937.8	16,693.8	8,947.9	65.7	62.7	-91.23	-7,554.9	-691.4	485.0	357.1	127.96	3.791	
16,800.0	8,938.0	16,773.8	8,948.0	66.2	63.3	-91.23	-7,634.9	-692.1	485.0	355.9	129.09	3.757	
16,815.0	8,938.0	16,788.8	8,948.0	66.3	63.4	-91.23	-7,649.9	-692.2	485.0	355.7	129.31	3.751	
16,900.0	8,938.2	16,873.8	8,948.2	66.9	64.0	-91.23	-7,734.9	-693.0	485.0	354.5	130.52	3.716	
16,910.0	8,938.2	16,883.8	8,948.2	67.0	64.1	-91.23	-7,744.9	-693.1	485.0	354.4	130.66	3.712	
17,000.0	8,938.4	16,973.8	8,948.3	67.6	64.8	-91.22	-7,834.9	-693.9	485.0	353.1	131.95	3.676	
17,005.0	8,938.4	16,978.8	8,948.3	67.7	64.8	-91.22	-7,839.9	-693.9	485.0	353.0	132.02	3.674	
17,100.0	8,938.6	17,073.8	8,948.5	68.3	65.5	-91.22	-7,934.9	-694.8	485.0	351.7	133.37	3.637	
17,195.0	8,938.7	17,168.8	8,948.6	69.0	66.2	-91.22	-8,029.9	-695.6	485.0	350.3	134.73	3.600	
17,200.0	8,938.7	17,173.8	8,948.6	69.0	66.2	-91.22	-8,034.9	-695.7	485.0	350.2	134.81	3.598	
17,290.0	8,938.9	17,263.8	8,948.8	69.6	66.9	-91.21	-8,124.9	-696.5	485.0	348.9	136.10	3.564	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-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
17,300.0	8,938.9	17,273.8	8,948.8	69.7	66.9	-91.21	-8,134.9	-696.5	485.0	348.8	136.24	3.560	
17,385.0	8,939.1	17,358.8	8,948.9	70.3	67.6	-91.21	-8,219.9	-697.3	485.0	347.6	137.46	3.529	
17,400.0	8,939.1	17,373.8	8,949.0	70.4	67.7	-91.21	-8,234.9	-697.4	485.0	347.4	137.67	3.523	
17,480.0	8,939.3	17,453.8	8,949.1	71.0	68.3	-91.21	-8,314.8	-698.1	485.0	346.2	138.82	3.494	
17,500.0	8,939.3	17,473.8	8,949.1	71.1	68.4	-91.21	-8,334.8	-698.3	485.0	345.9	139.11	3.487	
17,575.0	8,939.4	17,548.8	8,949.3	71.6	68.9	-91.21	-8,409.8	-699.0	485.0	344.8	140.19	3.460	
17,600.0	8,939.5	17,573.8	8,949.3	71.8	69.1	-91.20	-8,434.8	-699.2	485.0	344.5	140.55	3.451	
17,670.0	8,939.6	17,643.8	8,949.4	72.3	69.6	-91.20	-8,504.8	-699.8	485.0	343.5	141.56	3.426	
17,700.0	8,939.7	17,673.8	8,949.5	72.5	69.9	-91.20	-8,534.8	-700.1	485.0	343.0	141.99	3.416	
17,765.0	8,939.8	17,738.8	8,949.6	73.0	70.3	-91.20	-8,599.8	-700.7	485.0	342.1	142.93	3.394	
17,800.0	8,939.9	17,773.8	8,949.6	73.2	70.6	-91.20	-8,634.8	-701.0	485.0	341.6	143.43	3.382	
17,860.0	8,940.0	17,833.8	8,949.7	73.6	71.0	-91.20	-8,694.8	-701.5	485.0	340.7	144.30	3.361	
17,900.0	8,940.1	17,873.8	8,949.8	73.9	71.3	-91.19	-8,734.8	-701.9	485.0	340.2	144.88	3.348	
17,955.0	8,940.2	17,928.8	8,949.9	74.3	71.7	-91.19	-8,789.8	-702.4	485.0	339.4	145.67	3.330	
18,000.0	8,940.2	17,973.8	8,949.9	74.6	72.1	-91.19	-8,834.8	-702.8	485.0	338.7	146.33	3.315	
18,050.0	8,940.3	18,023.8	8,950.0	75.0	72.4	-91.19	-8,884.8	-703.2	485.0	338.0	147.05	3.298	
18,100.0	8,940.4	18,073.8	8,950.1	75.3	72.8	-91.19	-8,934.8	-703.6	485.0	337.3	147.77	3.282	
18,145.0	8,940.5	18,118.8	8,950.2	75.7	73.1	-91.19	-8,979.8	-704.0	485.0	336.6	148.43	3.268	
18,200.0	8,940.6	18,173.8	8,950.3	76.0	73.5	-91.19	-9,034.8	-704.5	485.0	335.8	149.22	3.250	
18,240.0	8,940.7	18,213.8	8,950.3	76.3	73.8	-91.18	-9,074.8	-704.9	485.0	335.2	149.80	3.238	
18,300.0	8,940.8	18,273.8	8,950.4	76.8	74.3	-91.18	-9,134.8	-705.4	485.0	334.4	150.67	3.219	
18,335.0	8,940.9	18,308.8	8,950.5	77.0	74.5	-91.18	-9,169.8	-705.7	485.0	333.9	151.18	3.208	
18,400.0	8,941.0	18,373.8	8,950.6	77.5	75.0	-91.18	-9,234.8	-706.3	485.0	332.9	152.13	3.188	
18,430.0	8,941.1	18,403.8	8,950.6	77.7	75.2	-91.18	-9,264.8	-706.6	485.0	332.5	152.56	3.179	
18,500.0	8,941.2	18,473.8	8,950.7	78.2	75.7	-91.18	-9,334.8	-707.2	485.0	331.5	153.58	3.158	
18,525.0	8,941.2	18,498.8	8,950.8	78.4	75.9	-91.17	-9,359.8	-707.4	485.0	331.1	153.94	3.151	
18,600.0	8,941.4	18,573.8	8,950.9	78.9	76.5	-91.17	-9,434.8	-708.1	485.0	330.0	155.04	3.129	
18,620.0	8,941.4	18,593.8	8,950.9	79.0	76.6	-91.17	-9,454.8	-708.3	485.0	329.7	155.33	3.123	
18,700.0	8,941.6	18,673.8	8,951.1	79.6	77.2	-91.17	-9,534.8	-709.0	485.0	328.5	156.49	3.099	
18,715.0	8,941.6	18,688.8	8,951.1	79.7	77.3	-91.17	-9,549.8	-709.1	485.0	328.3	156.71	3.095	
18,800.0	8,941.8	18,773.8	8,951.2	80.3	78.0	-91.17	-9,634.8	-709.9	485.0	327.1	157.95	3.071	
18,810.0	8,941.8	18,783.8	8,951.2	80.4	78.0	-91.17	-9,644.8	-710.0	485.0	326.9	158.10	3.068	
18,900.0	8,941.9	18,873.8	8,951.4	81.0	78.7	-91.16	-9,734.8	-710.8	485.0	325.6	159.41	3.043	
18,905.0	8,942.0	18,878.8	8,951.4	81.1	78.7	-91.16	-9,739.8	-710.8	485.0	325.6	159.48	3.041	
19,000.0	8,942.1	18,973.8	8,951.6	81.8	79.4	-91.16	-9,834.8	-711.6	485.0	324.2	160.87	3.015	
19,095.0	8,942.3	19,068.8	8,951.7	82.4	80.1	-91.16	-9,929.8	-712.5	485.0	322.8	162.26	2.989	
19,100.0	8,942.3	19,073.8	8,951.7	82.5	80.2	-91.16	-9,934.8	-712.5	485.0	322.7	162.33	2.988	
19,190.0	8,942.5	19,163.8	8,951.9	83.1	80.8	-91.15	-10,024.8	-713.3	485.0	321.4	163.65	2.964	
19,200.0	8,942.5	19,173.8	8,951.9	83.2	80.9	-91.15	-10,034.8	-713.4	485.0	321.2	163.80	2.961	
19,285.0	8,942.7	19,258.8	8,952.0	83.8	81.5	-91.15	-10,119.8	-714.2	485.0	320.0	165.04	2.939	
19,300.0	8,942.7	19,273.8	8,952.0	83.9	81.6	-91.15	-10,134.8	-714.3	485.0	319.8	165.26	2.935	
19,380.0	8,942.9	19,353.8	8,952.2	84.5	82.2	-91.15	-10,214.8	-715.0	485.0	318.6	166.43	2.914	
19,400.0	8,942.9	19,373.8	8,952.2	84.6	82.4	-91.15	-10,234.8	-715.2	485.0	318.3	166.73	2.909	
19,475.0	8,943.0	19,448.8	8,952.3	85.2	82.9	-91.14	-10,309.8	-715.9	485.0	317.2	167.82	2.890	
19,500.0	8,943.1	19,473.8	8,952.4	85.3	83.1	-91.14	-10,334.8	-716.1	485.0	316.9	168.19	2.884	
19,570.0	8,943.2	19,543.8	8,952.5	85.9	83.7	-91.14	-10,404.8	-716.7	485.0	315.8	169.22	2.866	
19,600.0	8,943.3	19,573.8	8,952.5	86.1	83.9	-91.14	-10,434.8	-717.0	485.0	315.4	169.66	2.859	
19,665.0	8,943.4	19,638.8	8,952.6	86.5	84.4	-91.14	-10,499.8	-717.5	485.0	314.4	170.61	2.843	
19,700.0	8,943.5	19,673.8	8,952.7	86.8	84.6	-91.14	-10,534.8	-717.9	485.0	313.9	171.13	2.834	
19,760.0	8,943.6	19,733.8	8,952.8	87.2	85.1	-91.14	-10,594.8	-718.4	485.0	313.0	172.01	2.820	
19,800.0	8,943.6	19,773.8	8,952.8	87.5	85.4	-91.13	-10,634.8	-718.7	485.0	312.5	172.60	2.810	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
19,855.0	8,943.7	19,828.8	8,952.9	87.9	85.8	-91.13	-10,689.8	-719.2	485.1	311.6	173.41	2.797	
19,900.0	8,943.8	19,873.8	8,953.0	88.2	86.1	-91.13	-10,734.8	-719.6	485.1	311.0	174.07	2.787	
19,950.0	8,943.9	19,923.8	8,953.1	88.6	86.5	-91.13	-10,784.7	-720.1	485.1	310.2	174.80	2.775	
20,000.0	8,944.0	19,973.8	8,953.2	89.0	86.8	-91.13	-10,834.7	-720.5	485.1	309.5	175.54	2.763	
20,045.0	8,944.1	20,018.8	8,953.2	89.3	87.2	-91.13	-10,879.7	-720.9	485.1	308.8	176.20	2.753	
20,100.0	8,944.2	20,073.8	8,953.3	89.7	87.6	-91.12	-10,934.7	-721.4	485.1	308.0	177.01	2.740	
20,140.0	8,944.3	20,113.8	8,953.4	90.0	87.9	-91.12	-10,974.7	-721.8	485.1	307.5	177.60	2.731	
20,200.0	8,944.4	20,173.8	8,953.5	90.4	88.3	-91.12	-11,034.7	-722.3	485.1	306.6	178.49	2.718	
20,235.0	8,944.5	20,208.8	8,953.5	90.7	88.6	-91.12	-11,069.7	-722.6	485.1	306.1	179.00	2.710	
20,300.0	8,944.6	20,273.8	8,953.7	91.1	89.1	-91.12	-11,134.7	-723.2	485.1	305.1	179.96	2.695	
20,330.0	8,944.6	20,303.8	8,953.7	91.4	89.3	-91.12	-11,164.7	-723.4	485.1	304.7	180.40	2.689	
20,400.0	8,944.8	20,373.8	8,953.8	91.9	89.8	-91.11	-11,234.7	-724.1	485.1	303.6	181.44	2.673	
20,425.0	8,944.8	20,398.8	8,953.9	92.1	90.0	-91.11	-11,259.7	-724.3	485.1	303.3	181.81	2.668	
20,500.0	8,945.0	20,473.8	8,954.0	92.6	90.6	-91.11	-11,334.7	-725.0	485.1	302.1	182.91	2.652	
20,520.0	8,945.0	20,493.8	8,954.0	92.7	90.7	-91.11	-11,354.7	-725.1	485.1	301.8	183.21	2.648	
20,600.0	8,945.2	20,573.8	8,954.1	93.3	91.3	-91.11	-11,434.7	-725.8	485.1	300.7	184.39	2.631	
20,615.0	8,945.2	20,588.8	8,954.2	93.4	91.4	-91.11	-11,449.7	-726.0	485.1	300.4	184.61	2.627	
20,700.0	8,945.3	20,673.8	8,954.3	94.1	92.1	-91.11	-11,534.7	-726.7	485.1	299.2	185.87	2.610	
20,710.0	8,945.4	20,683.8	8,954.3	94.1	92.1	-91.10	-11,544.7	-726.8	485.1	299.0	186.02	2.608	
20,800.0	8,945.5	20,773.8	8,954.5	94.8	92.8	-91.10	-11,634.7	-727.6	485.1	297.7	187.35	2.589	
20,805.0	8,945.5	20,778.8	8,954.5	94.8	92.8	-91.10	-11,639.7	-727.7	485.1	297.6	187.42	2.588	
20,900.0	8,945.7	20,873.8	8,954.6	95.5	93.6	-91.10	-11,734.7	-728.5	485.1	296.2	188.83	2.569	
20,995.0	8,945.9	20,968.8	8,954.8	96.2	94.3	-91.10	-11,829.7	-729.3	485.1	294.8	190.23	2.550	
21,000.0	8,945.9	20,973.8	8,954.8	96.2	94.3	-91.10	-11,834.7	-729.4	485.1	294.8	190.31	2.549	
21,090.0	8,946.1	21,063.8	8,954.9	96.9	95.0	-91.09	-11,924.7	-730.2	485.1	293.4	191.64	2.531	
21,100.0	8,946.1	21,073.8	8,954.9	97.0	95.0	-91.09	-11,934.7	-730.3	485.1	293.3	191.79	2.529	
21,185.0	8,946.3	21,158.8	8,955.1	97.6	95.7	-91.09	-12,019.7	-731.0	485.1	292.0	193.05	2.513	
21,200.0	8,946.3	21,173.8	8,955.1	97.7	95.8	-91.09	-12,034.7	-731.2	485.1	291.8	193.27	2.510	
21,280.0	8,946.4	21,253.8	8,955.2	98.3	96.4	-91.09	-12,114.7	-731.9	485.1	290.6	194.45	2.494	
21,300.0	8,946.5	21,273.8	8,955.3	98.4	96.5	-91.09	-12,134.7	-732.1	485.1	290.3	194.75	2.491	
21,375.0	8,946.6	21,348.8	8,955.4	99.0	97.1	-91.08	-12,209.7	-732.7	485.1	289.2	195.86	2.477	
21,400.0	8,946.7	21,373.8	8,955.4	99.2	97.3	-91.08	-12,234.7	-732.9	485.1	288.8	196.23	2.472	
21,470.0	8,946.8	21,443.8	8,955.5	99.7	97.8	-91.08	-12,304.7	-733.6	485.1	287.8	197.27	2.459	
21,500.0	8,946.9	21,473.8	8,955.6	99.9	98.0	-91.08	-12,334.7	-733.8	485.1	287.3	197.72	2.453	
21,565.0	8,947.0	21,538.8	8,955.7	100.4	98.5	-91.08	-12,399.7	-734.4	485.1	286.4	198.68	2.441	
21,600.0	8,947.0	21,573.8	8,955.8	100.6	98.8	-91.08	-12,434.7	-734.7	485.1	285.9	199.20	2.435	
21,660.0	8,947.2	21,633.8	8,955.9	101.1	99.2	-91.07	-12,494.7	-735.3	485.1	285.0	200.09	2.424	
21,700.0	8,947.2	21,673.8	8,955.9	101.4	99.5	-91.07	-12,534.7	-735.6	485.1	284.4	200.69	2.417	
21,755.0	8,947.3	21,728.8	8,956.0	101.8	99.9	-91.07	-12,589.7	-736.1	485.1	283.6	201.50	2.407	
21,800.0	8,947.4	21,773.8	8,956.1	102.1	100.3	-91.07	-12,634.7	-736.5	485.1	282.9	202.17	2.399	
21,850.0	8,947.5	21,823.8	8,956.2	102.5	100.7	-91.07	-12,684.7	-736.9	485.1	282.2	202.92	2.390	
21,900.0	8,947.6	21,873.8	8,956.2	102.8	101.0	-91.07	-12,734.7	-737.4	485.1	281.4	203.66	2.382	
21,945.0	8,947.7	21,918.8	8,956.3	103.2	101.4	-91.07	-12,779.7	-737.8	485.1	280.7	204.33	2.374	
22,000.0	8,947.8	21,973.8	8,956.4	103.6	101.8	-91.06	-12,834.7	-738.3	485.1	279.9	205.15	2.364	
22,040.0	8,947.9	22,013.8	8,956.5	103.9	102.1	-91.06	-12,874.7	-738.6	485.1	279.3	205.74	2.358	
22,100.0	8,948.0	22,073.8	8,956.6	104.3	102.5	-91.06	-12,934.7	-739.2	485.1	278.4	206.63	2.347	
22,135.0	8,948.0	22,108.8	8,956.6	104.6	102.8	-91.06	-12,969.7	-739.5	485.1	277.9	207.15	2.342	
22,200.0	8,948.2	22,173.8	8,956.7	105.1	103.3	-91.06	-13,034.7	-740.0	485.1	276.9	208.12	2.331	
22,230.0	8,948.2	22,203.8	8,956.8	105.3	103.5	-91.06	-13,064.7	-740.3	485.1	276.5	208.57	2.326	
22,300.0	8,948.4	22,273.8	8,956.9	105.8	104.0	-91.05	-13,134.7	-740.9	485.1	275.5	209.61	2.314	
22,325.0	8,948.4	22,298.8	8,956.9	106.0	104.2	-91.05	-13,159.7	-741.2	485.1	275.1	209.98	2.310	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8448-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		
22,400.0	8,948.5	22,373.8	8,957.0	106.5	104.8	-91.05	-13,234.6	-741.8	485.1	274.0	211.10	2.298		
22,420.0	8,948.6	22,393.8	8,957.1	106.7	104.9	-91.05	-13,254.6	-742.0	485.1	273.7	211.40	2.295		
22,500.0	8,948.7	22,473.8	8,957.2	107.3	105.5	-91.05	-13,334.6	-742.7	485.1	272.5	212.59	2.282		
22,515.0	8,948.8	22,488.8	8,957.2	107.4	105.6	-91.05	-13,349.6	-742.8	485.1	272.3	212.81	2.279		
22,600.0	8,948.9	22,573.8	8,957.4	108.0	106.3	-91.04	-13,434.6	-743.6	485.1	271.0	214.08	2.266		
22,610.0	8,948.9	22,583.8	8,957.4	108.1	106.4	-91.04	-13,444.6	-743.7	485.1	270.8	214.23	2.264		
22,700.0	8,949.1	22,673.8	8,957.5	108.7	107.0	-91.04	-13,534.6	-744.5	485.1	269.5	215.57	2.250		
22,705.0	8,949.1	22,678.8	8,957.5	108.8	107.1	-91.04	-13,539.6	-744.5	485.1	269.4	215.65	2.249		
22,800.0	8,949.3	22,773.8	8,957.7	109.5	107.8	-91.04	-13,634.6	-745.4	485.1	268.0	217.06	2.235		
22,895.0	8,949.5	22,868.8	8,957.8	110.2	108.5	-91.04	-13,729.6	-746.2	485.1	266.6	218.48	2.220		
22,900.0	8,949.5	22,873.8	8,957.9	110.2	108.5	-91.03	-13,734.6	-746.3	485.1	266.5	218.56	2.219		
22,990.0	8,949.7	22,963.8	8,958.0	110.9	109.2	-91.03	-13,824.6	-747.1	485.1	265.2	219.90	2.206		
23,000.0	8,949.7	22,973.8	8,958.0	111.0	109.3	-91.03	-13,834.6	-747.1	485.1	265.0	220.05	2.204		
23,085.0	8,949.8	23,058.8	8,958.2	111.6	109.9	-91.03	-13,919.6	-747.9	485.1	263.8	221.32	2.192		
23,100.0	8,949.9	23,073.8	8,958.2	111.7	110.0	-91.03	-13,934.6	-748.0	485.1	263.5	221.54	2.190		
23,180.0	8,950.0	23,153.8	8,958.3	112.3	110.6	-91.03	-14,014.6	-748.7	485.1	262.3	222.74	2.178		
23,200.0	8,950.1	23,173.8	8,958.3	112.4	110.8	-91.03	-14,034.6	-748.9	485.1	262.0	223.03	2.175		
23,275.0	8,950.2	23,248.8	8,958.5	113.0	111.4	-91.02	-14,109.6	-749.6	485.1	260.9	224.15	2.164		
23,300.0	8,950.2	23,273.8	8,958.5	113.2	111.5	-91.02	-14,134.6	-749.8	485.1	260.6	224.53	2.160		
23,370.0	8,950.4	23,343.8	8,958.6	113.7	112.1	-91.02	-14,204.6	-750.4	485.1	259.5	225.57	2.150		
23,400.0	8,950.4	23,373.8	8,958.7	113.9	112.3	-91.02	-14,234.6	-750.7	485.1	259.1	226.02	2.146		
23,465.0	8,950.6	23,438.8	8,958.8	114.4	112.8	-91.02	-14,299.6	-751.3	485.1	258.1	226.99	2.137		
23,500.0	8,950.6	23,473.8	8,958.8	114.7	113.0	-91.02	-14,334.6	-751.6	485.1	257.6	227.52	2.132		
23,560.0	8,950.7	23,533.8	8,958.9	115.1	113.5	-91.01	-14,394.6	-752.1	485.1	256.7	228.41	2.124		
23,600.0	8,950.8	23,573.8	8,959.0	115.4	113.8	-91.01	-14,434.6	-752.5	485.1	256.1	229.01	2.118		
23,655.0	8,950.9	23,628.8	8,959.1	115.8	114.2	-91.01	-14,489.6	-753.0	485.1	255.2	229.83	2.111		
23,700.0	8,951.0	23,673.8	8,959.1	116.1	114.5	-91.01	-14,534.6	-753.4	485.1	254.6	230.51	2.104		
23,750.0	8,951.1	23,723.8	8,959.2	116.5	114.9	-91.01	-14,584.6	-753.8	485.1	253.8	231.26	2.098		
23,800.0	8,951.2	23,773.8	8,959.3	116.9	115.3	-91.01	-14,634.6	-754.2	485.1	253.1	232.00	2.091		
23,845.0	8,951.3	23,818.8	8,959.4	117.2	115.6	-91.00	-14,679.6	-754.6	485.1	252.4	232.68	2.085		
23,900.0	8,951.4	23,873.8	8,959.5	117.6	116.1	-91.00	-14,734.6	-755.1	485.1	251.6	233.50	2.077		
23,940.0	8,951.5	23,913.8	8,959.5	117.9	116.4	-91.00	-14,774.6	-755.5	485.1	251.0	234.10	2.072		
24,000.0	8,951.6	23,973.8	8,959.6	118.4	116.8	-91.00	-14,834.6	-756.0	485.1	250.1	235.00	2.064		
24,035.0	8,951.6	24,008.8	8,959.7	118.6	117.1	-91.00	-14,869.6	-756.3	485.1	249.6	235.52	2.060		
24,099.3	8,951.8	24,073.2	8,959.8	119.1	117.6	-91.00	-14,933.9	-756.9	485.1	248.6	236.48	2.051		
24,130.0	8,951.8	24,103.8	8,959.8	119.3	117.8	-91.00	-14,964.6	-757.2	485.1	248.1	236.94	2.047		
24,200.0	8,951.9	24,173.8	8,960.0	119.9	118.3	-90.99	-15,034.6	-757.8	485.1	247.1	237.99	2.038		
24,225.0	8,952.0	24,198.8	8,960.0	120.0	118.5	-90.99	-15,059.6	-758.0	485.1	246.7	238.36	2.035		
24,225.1	8,952.0	24,198.9	8,960.0	120.0	118.5	-90.99	-15,059.7	-758.0	485.1	246.7	238.37	2.035		
24,229.3	8,952.0	24,202.6	8,960.0	120.1	118.5	-90.99	-15,063.3	-758.1	485.1	246.7	238.41	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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 +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	21.51	151.0	59.5	162.4					
95.0	95.0	90.6	90.6	3.0	3.0	21.51	151.0	59.5	162.3	156.3	6.03	26.895		
100.0	100.0	95.6	95.6	3.0	3.0	21.51	151.0	59.5	162.3	156.3	6.04	26.873		
190.0	190.0	185.6	185.6	3.1	3.1	21.51	151.0	59.5	162.3	156.0	6.25	25.967		
200.0	200.0	195.6	195.6	3.1	3.1	21.51	151.0	59.5	162.3	156.0	6.28	25.825		
285.0	285.0	280.6	280.6	3.3	3.2	21.51	151.0	59.5	162.3	155.8	6.49	24.996		
300.0	300.0	295.6	295.6	3.3	3.3	21.51	151.0	59.5	162.3	155.8	6.53	24.838		
380.0	380.0	375.6	375.6	3.4	3.4	21.51	151.0	59.5	162.3	155.6	6.73	24.122		
400.0	400.0	395.6	395.6	3.4	3.4	21.51	151.0	59.5	162.3	155.5	6.78	23.937		
475.0	475.0	470.6	470.6	3.5	3.5	21.51	151.0	59.5	162.3	155.3	6.96	23.318		
500.0	500.0	495.6	495.6	3.5	3.5	21.51	151.0	59.5	162.3	155.3	7.02	23.108		
570.0	570.0	565.6	565.6	3.6	3.6	21.51	151.0	59.5	162.3	155.1	7.19	22.572		
600.0	600.0	595.6	595.6	3.6	3.6	21.51	151.0	59.5	162.3	155.0	7.26	22.342		
665.0	665.0	660.6	660.6	3.7	3.7	21.51	151.0	59.5	162.3	154.9	7.42	21.879		
700.0	700.0	695.6	695.6	3.8	3.8	21.51	151.0	59.5	162.3	154.8	7.50	21.630		
760.0	760.0	755.6	755.6	3.8	3.8	21.51	151.0	59.5	162.3	154.7	7.64	21.231		
800.0	800.0	795.6	795.6	3.9	3.9	21.51	151.0	59.5	162.3	154.6	7.74	20.967		
855.0	855.0	850.6	850.6	4.0	3.9	21.51	151.0	59.5	162.3	154.4	7.87	20.625		
900.0	900.0	895.6	895.6	4.0	4.0	21.51	151.0	59.5	162.3	154.3	7.98	20.348		
950.0	950.0	945.6	945.6	4.1	4.1	21.51	151.0	59.5	162.3	154.2	8.09	20.056		
1,000.0	1,000.0	995.6	995.6	4.1	4.1	21.51	151.0	59.5	162.3	154.1	8.21	19.768		
1,045.0	1,045.0	1,040.6	1,040.6	4.2	4.2	21.51	151.0	59.5	162.3	154.0	8.31	19.521		
1,100.0	1,100.0	1,095.6	1,095.6	4.2	4.2	21.51	151.0	59.5	162.3	153.9	8.44	19.223		
1,140.0	1,140.0	1,135.6	1,135.6	4.3	4.3	21.51	151.0	59.5	162.3	153.8	8.53	19.016		
1,200.0	1,200.0	1,195.6	1,195.6	4.4	4.4	21.51	151.0	59.5	162.3	153.6	8.67	18.710		
1,235.0	1,235.0	1,230.6	1,230.6	4.4	4.4	21.51	151.0	59.5	162.3	153.5	8.75	18.539		
1,300.0	1,300.0	1,295.6	1,295.6	4.5	4.5	21.51	151.0	59.5	162.3	153.4	8.90	18.226		
1,330.0	1,330.0	1,325.6	1,325.6	4.5	4.5	21.51	151.0	59.5	162.3	153.3	8.97	18.087		
1,400.0	1,400.0	1,395.6	1,395.6	4.6	4.6	21.51	151.0	59.5	162.3	153.2	9.13	17.769		
1,425.0	1,425.0	1,420.6	1,420.6	4.6	4.6	21.51	151.0	59.5	162.3	153.1	9.19	17.659		
1,500.0	1,500.0	1,495.6	1,495.6	4.7	4.7	21.51	151.0	59.5	162.3	152.9	9.36	17.336 CC		
1,520.0	1,520.0	1,514.9	1,514.9	4.7	4.7	93.72	151.0	59.5	162.3	152.9	9.41	17.250 ES		
1,600.0	1,600.0	1,591.0	1,590.9	4.8	4.9	94.48	151.9	60.6	163.8	154.2	9.61	17.036		
1,615.0	1,615.0	1,605.2	1,605.2	4.9	4.9	94.73	152.3	61.0	164.3	154.6	9.67	16.996		
1,700.0	1,699.8	1,685.6	1,685.5	5.0	5.1	96.76	154.9	64.0	168.6	158.7	9.98	16.906 SF		
1,710.0	1,709.8	1,695.0	1,694.9	5.0	5.1	97.06	155.3	64.5	169.3	159.3	10.01	16.913		
1,800.0	1,799.5	1,779.3	1,778.9	5.3	5.3	100.24	159.9	69.8	177.5	167.1	10.35	17.151		
1,805.0	1,804.4	1,784.0	1,783.5	5.3	5.3	100.44	160.2	70.1	178.0	167.7	10.37	17.173		
1,900.0	1,898.7	1,871.6	1,870.5	5.6	5.6	104.46	166.7	77.7	190.9	180.2	10.74	17.781		
1,995.0	1,992.5	1,957.5	1,955.5	5.9	5.8	108.71	174.8	87.1	208.7	197.5	11.14	18.729		
2,000.0	1,997.5	1,962.0	1,960.0	5.9	5.9	108.94	175.3	87.6	209.7	198.6	11.16	18.789		
2,090.0	2,085.8	2,041.4	2,038.2	6.2	6.1	112.86	184.3	98.1	231.6	220.0	11.58	20.005		
2,100.0	2,095.6	2,050.1	2,046.7	6.2	6.1	113.27	185.4	99.3	234.3	222.7	11.62	20.158		
2,185.0	2,178.5	2,123.0	2,118.1	6.5	6.4	116.65	195.1	110.6	259.8	247.8	12.04	21.579		
2,199.8	2,192.9	2,135.4	2,130.2	6.6	6.4	117.20	196.9	112.6	264.7	252.6	12.11	21.849		
2,280.0	2,270.7	2,202.5	2,195.5	6.8	6.7	120.34	207.0	124.4	292.8	280.3	12.51	23.403		
2,300.0	2,290.1	2,220.7	2,213.2	6.9	6.7	121.10	209.9	127.7	300.2	287.6	12.62	23.789		
2,375.0	2,362.9	2,289.1	2,279.5	7.2	6.9	123.67	220.7	140.2	328.1	315.1	13.02	25.194		
2,400.0	2,387.1	2,311.8	2,301.6	7.2	7.0	124.43	224.3	144.4	337.5	324.4	13.16	25.647		
2,470.0	2,455.0	2,375.6	2,363.4	7.5	7.2	126.36	234.4	156.1	364.2	350.6	13.56	26.857		
2,500.0	2,484.1	2,402.9	2,390.0	7.6	7.3	127.10	238.7	161.1	375.7	362.0	13.73	27.359		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
2,565.0	2,547.2	2,462.2	2,447.4	7.8	7.5	128.57	248.1	171.9	400.9	386.7	14.12	28.388		
2,600.0	2,581.2	2,494.0	2,478.4	7.9	7.6	129.29	253.1	177.7	414.5	400.2	14.33	28.923		
2,660.0	2,639.4	2,548.7	2,531.4	8.2	7.8	130.42	261.8	187.7	438.0	423.3	14.70	29.790		
2,700.0	2,678.2	2,585.1	2,566.8	8.3	8.0	131.11	267.6	194.4	453.7	438.7	14.95	30.346		
2,755.0	2,731.6	2,635.3	2,615.4	8.5	8.1	131.98	275.5	203.6	475.4	460.1	15.30	31.070		
2,800.0	2,775.2	2,676.2	2,655.1	8.7	8.3	132.64	282.0	211.1	493.2	477.6	15.59	31.638		
2,850.0	2,823.8	2,721.8	2,699.3	8.9	8.5	133.32	289.2	219.4	513.1	497.2	15.92	32.237		
2,900.0	2,872.3	2,767.3	2,743.5	9.1	8.6	133.95	296.4	227.8	533.0	516.8	16.25	32.810		
2,945.0	2,915.9	2,808.3	2,783.3	9.3	8.8	134.48	302.9	235.3	551.0	534.4	16.55	33.301		
3,000.0	2,969.3	2,858.5	2,831.9	9.5	9.0	135.08	310.8	244.5	573.0	556.1	16.92	33.872		
3,040.0	3,008.1	2,894.9	2,867.3	9.7	9.1	135.49	316.6	251.1	589.1	571.9	17.19	34.269		
3,100.0	3,066.3	2,949.6	2,920.3	9.9	9.4	136.06	325.2	261.1	613.2	595.6	17.60	34.837		
3,135.0	3,100.3	2,981.4	2,951.3	10.1	9.5	136.38	330.3	267.0	627.3	609.4	17.84	35.153		
3,200.0	3,163.4	3,040.7	3,008.7	10.3	9.7	136.93	339.6	277.8	653.5	635.2	18.30	35.713		
3,230.0	3,192.5	3,068.0	3,035.2	10.5	9.8	137.16	343.9	282.8	665.6	647.1	18.51	35.960		
3,300.0	3,260.4	3,131.8	3,097.1	10.8	10.1	137.69	354.0	294.5	693.9	674.9	19.00	36.511		
3,325.0	3,284.7	3,154.5	3,119.2	10.9	10.2	137.87	357.6	298.7	704.0	684.8	19.18	36.698		
3,400.0	3,357.4	3,222.9	3,185.5	11.2	10.5	138.37	368.4	311.2	734.4	714.7	19.72	37.238		
3,420.0	3,376.8	3,241.1	3,203.2	11.3	10.6	138.50	371.3	314.5	742.5	722.6	19.87	37.375		
3,500.0	3,454.5	3,314.0	3,273.9	11.6	10.9	138.98	382.9	327.9	775.0	754.5	20.45	37.902		
3,515.0	3,469.0	3,327.6	3,287.2	11.7	10.9	139.06	385.0	330.4	781.0	760.5	20.56	37.996		
3,600.0	3,551.5	3,405.1	3,362.3	12.1	11.3	139.53	397.3	344.6	815.6	794.4	21.18	38.510		
3,610.0	3,561.2	3,414.2	3,371.1	12.1	11.3	139.58	398.7	346.2	819.7	798.4	21.25	38.568		
3,700.0	3,648.5	3,496.2	3,450.7	12.5	11.7	140.02	411.7	361.2	856.3	834.4	21.92	39.068		
3,705.0	3,653.4	3,500.7	3,455.1	12.5	11.7	140.05	412.4	362.1	858.3	836.4	21.96	39.094		
3,800.0	3,745.6	3,587.3	3,539.1	13.0	12.1	140.48	426.1	377.9	897.0	874.4	22.66	39.580		
3,895.0	3,837.7	3,673.8	3,623.1	13.4	12.4	140.87	439.8	393.8	935.8	912.4	23.38	40.029		
3,900.0	3,842.6	3,678.4	3,627.5	13.4	12.5	140.89	440.5	394.6	937.8	914.4	23.42	40.052		
3,990.0	3,929.9	3,760.4	3,707.0	13.8	12.8	141.23	453.5	409.6	974.6	950.5	24.10	40.445		
4,000.0	3,939.6	3,769.5	3,715.9	13.9	12.9	141.27	454.9	411.3	978.7	954.5	24.17	40.487		
4,085.0	4,022.1	3,846.9	3,791.0	14.3	13.2	141.56	467.2	425.5	1,013.4	988.6	24.82	40.832		
4,100.0	4,036.6	3,860.6	3,804.3	14.3	13.3	141.62	469.3	428.0	1,019.5	994.6	24.93	40.890		
4,180.0	4,114.3	3,933.4	3,875.0	14.7	13.6	141.87	480.9	441.3	1,052.2	1,026.7	25.55	41.191		
4,200.0	4,133.7	3,951.7	3,892.7	14.8	13.7	141.94	483.7	444.6	1,060.4	1,034.7	25.70	41.263		
4,275.0	4,206.5	4,020.0	3,959.0	15.1	14.0	142.16	494.6	457.2	1,091.1	1,064.8	26.28	41.526		
4,300.0	4,230.7	4,042.8	3,981.1	15.3	14.1	142.23	498.2	461.3	1,101.3	1,074.9	26.47	41.610		
4,370.0	4,298.6	4,106.5	4,042.9	15.6	14.4	142.43	508.2	473.0	1,130.0	1,103.0	27.01	41.838		
4,400.0	4,327.7	4,133.9	4,069.5	15.7	14.5	142.51	512.6	478.0	1,142.3	1,115.0	27.24	41.932		
4,465.0	4,390.8	4,193.1	4,126.9	16.0	14.8	142.68	521.9	488.9	1,168.9	1,141.1	27.75	42.130		
4,500.0	4,424.8	4,225.0	4,157.8	16.2	14.9	142.77	527.0	494.7	1,183.2	1,155.2	28.02	42.233		
4,560.0	4,483.0	4,279.6	4,210.9	16.5	15.2	142.91	535.6	504.7	1,207.8	1,179.3	28.48	42.403		
4,600.0	4,521.8	4,316.1	4,246.2	16.6	15.4	143.01	541.4	511.4	1,224.2	1,195.4	28.80	42.513		
4,655.0	4,575.2	4,366.2	4,294.9	16.9	15.6	143.13	549.3	520.6	1,246.8	1,217.5	29.23	42.659		
4,700.0	4,618.8	4,407.2	4,334.6	17.1	15.8	143.23	555.8	528.1	1,265.2	1,235.6	29.58	42.775		
4,750.0	4,667.4	4,452.7	4,378.8	17.3	16.0	143.34	563.0	536.4	1,285.7	1,255.7	29.97	42.899		
4,800.0	4,715.9	4,498.3	4,423.0	17.6	16.2	143.44	570.2	544.7	1,306.2	1,275.9	30.36	43.020		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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:										
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	11.13	150.5	29.6	153.4				
95.0	95.0	90.5	90.5	3.0	3.0	11.13	150.5	29.6	153.4	147.3	6.03	25.417	
100.0	100.0	95.5	95.5	3.0	3.0	11.13	150.5	29.6	153.4	147.3	6.04	25.397	
190.0	190.0	185.5	185.5	3.1	3.1	11.13	150.5	29.6	153.4	147.1	6.25	24.539	
200.0	200.0	195.5	195.5	3.1	3.1	11.13	150.5	29.6	153.4	147.1	6.29	24.404	
285.0	285.0	280.5	280.5	3.3	3.2	11.13	150.5	29.6	153.4	146.9	6.49	23.617	
300.0	300.0	295.5	295.5	3.3	3.3	11.13	150.5	29.6	153.4	146.8	6.54	23.467	
380.0	380.0	375.5	375.5	3.4	3.4	11.13	150.5	29.6	153.4	146.7	6.73	22.786	
400.0	400.0	395.5	395.5	3.4	3.4	11.13	150.5	29.6	153.4	146.6	6.78	22.610	
475.0	475.0	470.5	470.5	3.5	3.5	11.13	150.5	29.6	153.4	146.4	6.97	22.019	
500.0	500.0	495.5	495.5	3.5	3.5	11.13	150.5	29.6	153.4	146.4	7.03	21.819	
570.0	570.0	565.5	565.5	3.6	3.6	11.13	150.5	29.6	153.4	146.2	7.20	21.307	
600.0	600.0	595.5	595.5	3.6	3.6	11.13	150.5	29.6	153.4	146.1	7.27	21.087	
665.0	665.0	660.5	660.5	3.7	3.7	11.13	150.5	29.6	153.4	146.0	7.43	20.645	
700.0	700.0	695.5	695.5	3.8	3.8	11.13	150.5	29.6	153.4	145.9	7.52	20.407	
760.0	760.0	755.5	755.5	3.8	3.8	11.13	150.5	29.6	153.4	145.7	7.66	20.025	
800.0	800.0	795.5	795.5	3.9	3.9	11.13	150.5	29.6	153.4	145.6	7.76	19.773	
855.0	855.0	850.5	850.5	4.0	3.9	11.13	150.5	29.6	153.4	145.5	7.89	19.445	
900.0	900.0	895.5	895.5	4.0	4.0	11.13	150.5	29.6	153.4	145.4	8.00	19.180	
950.0	950.0	945.5	945.5	4.1	4.1	11.13	150.5	29.6	153.4	145.3	8.12	18.900	
1,000.0	1,000.0	995.5	995.5	4.1	4.1	11.13	150.5	29.6	153.4	145.1	8.24	18.624	
1,045.0	1,045.0	1,040.5	1,040.5	4.2	4.2	11.13	150.5	29.6	153.4	145.0	8.34	18.387	
1,100.0	1,100.0	1,095.5	1,095.5	4.2	4.2	11.13	150.5	29.6	153.4	144.9	8.47	18.102	
1,140.0	1,140.0	1,135.5	1,135.5	4.3	4.3	11.13	150.5	29.6	153.4	144.8	8.57	17.903	
1,200.0	1,200.0	1,195.5	1,195.5	4.4	4.4	11.13	150.5	29.6	153.4	144.7	8.71	17.610	
1,235.0	1,235.0	1,230.5	1,230.5	4.4	4.4	11.13	150.5	29.6	153.4	144.6	8.79	17.446	
1,300.0	1,300.0	1,295.5	1,295.5	4.5	4.5	11.13	150.5	29.6	153.4	144.4	8.95	17.146	
1,330.0	1,330.0	1,325.5	1,325.5	4.5	4.5	11.13	150.5	29.6	153.4	144.4	9.02	17.012	
1,400.0	1,400.0	1,395.5	1,395.5	4.6	4.6	11.13	150.5	29.6	153.4	144.2	9.18	16.707	
1,425.0	1,425.0	1,420.5	1,420.5	4.6	4.6	11.13	150.5	29.6	153.4	144.1	9.24	16.601	
1,500.0	1,500.0	1,495.5	1,495.5	4.7	4.7	11.13	150.5	29.6	153.4	144.0	9.42	16.291 CC	
1,520.0	1,520.0	1,514.9	1,514.9	4.7	4.7	83.33	150.5	29.6	153.4	143.9	9.47	16.204 ES	
1,600.0	1,600.0	1,591.6	1,591.6	4.8	4.9	83.58	151.8	28.9	154.4	144.7	9.66	15.978	
1,615.0	1,615.0	1,606.0	1,606.0	4.9	4.9	83.65	152.2	28.7	154.7	145.0	9.71	15.935	
1,700.0	1,699.8	1,687.5	1,687.3	5.0	5.1	84.27	156.0	26.8	157.6	147.6	10.01	15.751	
1,710.0	1,709.8	1,697.0	1,696.9	5.0	5.2	84.37	156.5	26.5	158.1	148.0	10.04	15.742	
1,800.0	1,799.5	1,783.1	1,782.7	5.3	5.4	85.35	163.0	23.3	163.2	152.8	10.35	15.763	
1,805.0	1,804.4	1,787.9	1,787.4	5.3	5.4	85.41	163.4	23.1	163.5	153.2	10.37	15.770	
1,900.0	1,898.7	1,878.5	1,877.4	5.6	5.7	86.71	172.8	18.3	171.1	160.4	10.69	16.004	
1,995.0	1,992.5	1,968.8	1,966.7	5.9	5.9	88.17	184.6	12.3	180.8	169.8	11.01	16.425	
2,000.0	1,997.5	1,973.5	1,971.4	5.9	6.0	88.25	185.3	12.0	181.4	170.4	11.03	16.452	
2,090.0	2,085.8	2,058.7	2,055.1	6.2	6.2	89.72	199.0	5.1	192.8	181.5	11.33	17.018	
2,100.0	2,095.6	2,068.1	2,064.4	6.2	6.3	89.88	200.6	4.3	194.2	182.8	11.36	17.091	
2,185.0	2,178.5	2,149.2	2,143.7	6.5	6.5	91.32	215.8	-3.4	207.0	195.4	11.61	17.827	
2,199.8	2,192.9	2,163.7	2,157.9	6.6	6.5	91.61	218.6	-4.8	209.3	197.6	11.66	17.957	
2,280.0	2,270.7	2,242.7	2,234.9	6.8	6.8	93.34	233.8	-12.6	222.0	210.1	11.93	18.613	
2,300.0	2,290.1	2,262.4	2,254.1	6.9	6.8	93.75	237.6	-14.5	225.2	213.2	12.00	18.767	
2,375.0	2,362.9	2,336.2	2,326.2	7.2	7.0	95.16	251.9	-21.7	237.2	225.0	12.28	19.325	
2,400.0	2,387.1	2,360.8	2,350.2	7.2	7.1	95.60	256.6	-24.1	241.3	228.9	12.37	19.506	
2,470.0	2,455.0	2,429.6	2,417.5	7.5	7.4	96.75	269.9	-30.8	252.7	240.1	12.64	19.992	
2,500.0	2,484.1	2,459.2	2,446.3	7.6	7.5	97.22	275.7	-33.7	257.6	244.9	12.76	20.195	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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				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			
2,565.0	2,547.2	2,523.1	2,508.7	7.8	7.7	98.17	288.0	-40.0	268.4	255.3	13.02	20.617			
2,600.0	2,581.2	2,557.6	2,542.4	7.9	7.8	98.65	294.7	-43.3	274.2	261.0	13.16	20.836			
2,660.0	2,639.4	2,616.6	2,600.0	8.2	8.0	99.42	306.1	-49.1	284.1	270.7	13.40	21.199			
2,700.0	2,678.2	2,656.0	2,638.4	8.3	8.2	99.91	313.7	-52.9	290.8	277.2	13.57	21.432			
2,755.0	2,731.6	2,710.1	2,691.3	8.5	8.4	100.55	324.1	-58.2	300.0	286.2	13.80	21.742			
2,800.0	2,775.2	2,754.4	2,734.5	8.7	8.5	101.04	332.7	-62.6	307.6	293.6	13.99	21.986			
2,850.0	2,823.8	2,803.6	2,782.6	8.9	8.7	101.56	342.2	-67.4	316.0	301.8	14.21	22.247			
2,900.0	2,872.3	2,852.8	2,830.6	9.1	8.9	102.05	351.7	-72.2	324.5	310.1	14.42	22.499			
2,945.0	2,915.9	2,897.1	2,873.8	9.3	9.1	102.47	360.3	-76.5	332.1	317.5	14.62	22.717			
3,000.0	2,969.3	2,951.2	2,926.7	9.5	9.3	102.96	370.7	-81.8	341.5	326.6	14.86	22.974			
3,040.0	3,008.1	2,990.6	2,965.1	9.7	9.4	103.30	378.3	-85.6	348.3	333.2	15.04	23.154			
3,100.0	3,066.3	3,049.6	3,022.8	9.9	9.7	103.79	389.7	-91.4	358.5	343.2	15.31	23.415			
3,135.0	3,100.3	3,084.1	3,056.4	10.1	9.8	104.06	396.4	-94.8	364.5	349.0	15.47	23.561			
3,200.0	3,163.4	3,148.0	3,118.8	10.3	10.1	104.54	408.7	-101.0	375.6	359.9	15.77	23.823			
3,230.0	3,192.5	3,177.6	3,147.7	10.5	10.2	104.75	414.4	-103.9	380.8	364.9	15.91	23.940			
3,300.0	3,260.4	3,246.4	3,214.9	10.8	10.5	105.22	427.7	-110.7	392.8	376.6	16.23	24.202			
3,325.0	3,284.7	3,271.0	3,238.9	10.9	10.6	105.38	432.5	-113.1	397.1	380.8	16.35	24.292			
3,400.0	3,357.4	3,344.9	3,311.0	11.2	10.9	105.85	446.8	-120.3	410.0	393.3	16.70	24.554			
3,420.0	3,376.8	3,364.5	3,330.2	11.3	11.0	105.97	450.6	-122.2	413.5	396.7	16.79	24.621			
3,500.0	3,454.5	3,443.3	3,407.1	11.6	11.3	106.43	465.8	-129.9	427.3	410.1	17.17	24.881			
3,515.0	3,469.0	3,458.0	3,421.5	11.7	11.4	106.51	468.6	-131.3	429.9	412.7	17.25	24.927			
3,600.0	3,551.5	3,541.7	3,503.1	12.1	11.7	106.96	484.8	-139.5	444.6	427.0	17.65	25.184			
3,610.0	3,561.2	3,551.5	3,512.7	12.1	11.8	107.01	486.7	-140.5	446.4	428.6	17.70	25.213			
3,700.0	3,648.5	3,640.1	3,599.2	12.5	12.2	107.45	503.8	-149.1	462.0	443.8	18.14	25.467			
3,705.0	3,653.4	3,645.0	3,604.0	12.5	12.2	107.47	504.7	-149.6	462.8	444.7	18.16	25.481			
3,800.0	3,745.6	3,738.5	3,695.3	13.0	12.6	107.91	522.8	-158.7	479.3	460.7	18.63	25.731			
3,895.0	3,837.7	3,832.0	3,786.6	13.4	13.0	108.31	540.9	-167.9	495.9	476.8	19.10	25.965			
3,900.0	3,842.6	3,836.9	3,791.4	13.4	13.0	108.33	541.8	-168.4	496.7	477.6	19.12	25.977			
3,990.0	3,929.9	3,925.5	3,877.8	13.8	13.4	108.69	558.9	-177.0	512.4	492.9	19.57	26.184			
4,000.0	3,939.6	3,935.3	3,887.4	13.9	13.5	108.73	560.8	-178.0	514.2	494.5	19.62	26.206			
4,085.0	4,022.1	4,019.0	3,969.1	14.3	13.8	109.04	577.0	-186.2	529.0	509.0	20.04	26.393			
4,100.0	4,036.6	4,033.7	3,983.5	14.3	13.9	109.10	579.8	-187.6	531.6	511.5	20.12	26.426			
4,180.0	4,114.3	4,114.5	4,062.4	14.7	14.2	109.40	595.3	-195.4	545.5	525.0	20.52	26.591			
4,200.0	4,133.7	4,135.9	4,083.4	14.8	14.3	109.50	599.2	-197.4	548.9	528.3	20.63	26.615			
4,275.0	4,206.5	4,216.2	4,162.3	15.1	14.7	109.99	612.6	-204.2	561.1	540.1	21.03	26.685			
4,300.0	4,230.7	4,243.0	4,188.7	15.3	14.8	110.20	616.6	-206.2	565.0	543.8	21.16	26.705			
4,370.0	4,298.6	4,317.9	4,262.7	15.6	15.2	110.89	626.7	-211.3	575.4	553.9	21.51	26.746			
4,400.0	4,327.7	4,350.0	4,294.5	15.7	15.3	111.23	630.5	-213.2	579.7	558.0	21.66	26.761			
4,465.0	4,390.8	4,419.4	4,363.4	16.0	15.6	112.06	637.5	-216.8	588.6	566.6	21.98	26.781			
4,500.0	4,424.8	4,456.7	4,400.5	16.2	15.8	112.55	640.7	-218.4	593.1	571.0	22.14	26.790			
4,560.0	4,483.0	4,520.3	4,464.0	16.5	16.0	113.48	645.2	-220.7	600.7	578.3	22.42	26.796			
4,600.0	4,521.8	4,562.6	4,506.2	16.6	16.2	114.15	647.5	-221.8	605.6	583.0	22.60	26.798			
4,655.0	4,575.2	4,620.5	4,564.1	16.9	16.4	115.15	649.7	-222.9	612.1	589.2	22.84	26.794			
4,700.0	4,618.8	4,667.6	4,611.2	17.1	16.5	116.01	650.7	-223.4	617.3	594.2	23.04	26.790			
4,750.0	4,667.4	4,719.3	4,662.9	17.3	16.6	117.02	651.0	-223.6	622.9	599.6	23.25	26.794			
4,800.0	4,715.9	4,767.8	4,711.4	17.6	16.6	117.98	651.0	-223.6	628.6	605.2	23.44	26.812			
4,845.0	4,759.5	4,811.5	4,755.0	17.8	16.7	118.83	651.0	-223.6	633.9	610.3	23.63	26.825			
4,900.0	4,812.9	4,864.9	4,808.4	18.0	16.7	119.85	651.0	-223.6	640.6	616.7	23.87	26.831			
4,940.0	4,851.7	4,903.7	4,847.2	18.2	16.7	120.58	651.0	-223.6	645.6	621.5	24.06	26.834			
5,000.0	4,909.9	4,961.9	4,905.4	18.5	16.7	121.65	651.0	-223.6	653.2	628.9	24.34	26.835			
5,035.0	4,943.9	4,995.9	4,939.4	18.7	16.8	122.26	651.0	-223.6	657.8	633.3	24.51	26.834			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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	
5,100.0	5,007.0	5,058.9	5,002.5	19.0	16.8	123.38	651.0	-223.6	666.5	641.7	24.84	26.831	
5,130.0	5,036.1	5,088.0	5,031.6	19.1	16.8	123.89	651.0	-223.6	670.6	645.6	25.00	26.829	
5,200.0	5,104.0	5,156.0	5,099.5	19.5	16.8	125.05	651.0	-223.6	680.4	655.0	25.37	26.822	
5,225.0	5,128.3	5,180.2	5,123.8	19.6	16.9	125.46	651.0	-223.6	683.9	658.4	25.50	26.819	
5,300.0	5,201.0	5,253.0	5,196.5	19.9	16.9	126.65	651.0	-223.6	694.8	668.9	25.92	26.809	
5,320.0	5,220.4	5,272.4	5,215.9	20.0	16.9	126.96	651.0	-223.6	697.8	671.8	26.03	26.807	
5,400.0	5,298.1	5,350.0	5,293.6	20.4	17.0	128.19	651.0	-223.6	709.8	683.3	26.49	26.795	
5,415.0	5,312.6	5,364.6	5,308.1	20.5	17.0	128.41	651.0	-223.6	712.1	685.5	26.58	26.793	
5,500.0	5,395.1	5,447.0	5,390.6	20.9	17.0	129.66	651.0	-223.6	725.3	698.2	27.08	26.782	
5,510.0	5,404.8	5,456.7	5,400.3	20.9	17.0	129.81	651.0	-223.6	726.9	699.7	27.14	26.780	
5,600.0	5,492.1	5,544.1	5,487.6	21.4	17.1	131.08	651.0	-223.6	741.2	713.5	27.69	26.769	
5,605.0	5,497.0	5,548.9	5,492.5	21.4	17.1	131.15	651.0	-223.6	742.0	714.3	27.72	26.769	
5,700.0	5,589.1	5,641.1	5,584.6	21.8	17.1	132.44	651.0	-223.6	757.6	729.3	28.31	26.760	
5,795.0	5,681.3	5,733.3	5,676.8	22.3	17.2	133.67	651.0	-223.6	773.5	744.6	28.91	26.755	
5,800.0	5,686.2	5,738.1	5,681.7	22.3	17.2	133.74	651.0	-223.6	774.4	745.4	28.94	26.755	
5,890.0	5,773.5	5,825.5	5,769.0	22.8	17.2	134.86	651.0	-223.6	789.8	760.3	29.52	26.754	
5,900.0	5,783.2	5,835.2	5,778.7	22.8	17.2	134.98	651.0	-223.6	791.6	762.0	29.59	26.754	
5,985.0	5,865.7	5,917.6	5,861.2	23.2	17.3	136.00	651.0	-223.6	806.4	776.3	30.14	26.757	
6,000.0	5,880.2	5,932.2	5,875.7	23.3	17.3	136.18	651.0	-223.6	809.1	778.8	30.24	26.758	
6,080.0	5,957.9	6,009.8	5,953.4	23.7	17.3	137.10	651.0	-223.6	823.3	792.6	30.76	26.765	
6,100.0	5,977.3	6,029.2	5,972.8	23.8	17.3	137.32	651.0	-223.6	826.9	796.0	30.89	26.767	
6,175.0	6,050.0	6,102.0	6,045.5	24.1	17.4	138.15	651.0	-223.6	840.5	809.2	31.39	26.778	
6,200.0	6,074.3	6,126.3	6,069.8	24.2	17.4	138.42	651.0	-223.6	845.1	813.6	31.56	26.782	
6,270.0	6,142.2	6,194.2	6,137.7	24.6	17.4	139.16	651.0	-223.6	858.0	826.0	32.02	26.796	
6,299.8	6,171.1	6,223.1	6,166.6	24.7	17.5	139.47	651.0	-223.6	863.6	831.3	32.22	26.802	
6,365.0	6,234.6	6,286.5	6,230.1	25.0	17.5	140.25	651.0	-223.6	875.2	842.5	32.65	26.803	
6,400.0	6,268.8	6,320.7	6,264.3	25.2	17.5	140.64	651.0	-223.6	881.0	848.1	32.88	26.794	
6,460.0	6,327.6	6,379.5	6,323.1	25.5	17.5	141.23	651.0	-223.6	890.3	857.0	33.25	26.772	
6,500.0	6,366.9	6,418.9	6,362.4	25.7	17.6	141.59	651.0	-223.6	896.0	862.5	33.50	26.746	
6,555.0	6,421.2	6,473.1	6,416.7	25.9	17.6	142.04	651.0	-223.6	903.1	869.3	33.82	26.705	
6,600.0	6,465.7	6,517.7	6,461.2	26.1	17.6	142.36	651.0	-223.6	908.3	874.3	34.07	26.658	
6,650.0	6,515.3	6,567.2	6,510.8	26.4	17.7	142.67	651.0	-223.6	913.5	879.2	34.34	26.602	
6,700.0	6,564.9	6,616.9	6,560.4	26.6	17.7	142.94	651.0	-223.6	918.0	883.4	34.60	26.532	
6,745.0	6,609.7	6,661.7	6,605.2	26.8	17.7	143.14	651.0	-223.6	921.5	886.7	34.82	26.467	
6,800.0	6,664.6	6,716.5	6,660.1	27.0	17.7	143.34	651.0	-223.6	925.0	889.9	35.08	26.371	
6,840.0	6,704.5	6,756.4	6,700.0	27.1	17.8	143.46	651.0	-223.6	927.0	891.8	35.24	26.303	
6,900.0	6,764.4	6,816.4	6,759.9	27.3	17.8	143.59	651.0	-223.6	929.2	893.7	35.49	26.183	
6,935.0	6,799.4	6,851.4	6,794.9	27.4	17.8	143.63	651.0	-223.6	930.0	894.4	35.58	26.141	
6,999.6	6,864.0	6,916.0	6,859.5	27.5	17.9	71.48	651.0	-223.6	930.6	894.9	35.73	26.044	
7,030.0	6,894.4	6,946.4	6,889.9	27.5	17.9	71.48	651.0	-223.6	930.6	894.8	35.77	26.017	
7,100.0	6,964.4	7,016.4	6,959.9	27.5	17.9	71.48	651.0	-223.6	930.6	894.7	35.85	25.955	
7,125.0	6,989.4	7,041.4	6,984.9	27.5	17.9	71.48	651.0	-223.6	930.6	894.7	35.89	25.933	
7,200.0	7,064.4	7,116.4	7,059.9	27.6	18.0	71.48	651.0	-223.6	930.6	894.6	35.98	25.866	
7,220.0	7,084.4	7,136.4	7,079.9	27.6	18.0	71.48	651.0	-223.6	930.6	894.6	36.00	25.849	
7,300.0	7,164.4	7,216.4	7,159.9	27.6	18.0	71.48	651.0	-223.6	930.6	894.5	36.10	25.779	
7,315.0	7,179.4	7,231.4	7,174.9	27.6	18.0	71.48	651.0	-223.6	930.6	894.5	36.12	25.766	
7,400.0	7,264.4	7,316.4	7,259.9	27.6	18.1	71.48	651.0	-223.6	930.6	894.4	36.22	25.691	
7,410.0	7,274.4	7,326.4	7,269.9	27.6	18.1	71.48	651.0	-223.6	930.6	894.4	36.23	25.683	
7,500.0	7,364.4	7,416.4	7,359.9	27.7	18.2	71.48	651.0	-223.6	930.6	894.3	36.34	25.605	
7,505.0	7,369.4	7,421.4	7,364.9	27.7	18.2	71.48	651.0	-223.6	930.6	894.2	36.35	25.600	
7,600.0	7,464.4	7,516.4	7,459.9	27.7	18.2	71.48	651.0	-223.6	930.6	894.1	36.47	25.518	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
7,695.0	7,559.4	7,611.4	7,554.9	27.7	18.3	71.48	651.0	-223.6	930.6	894.0	36.58	25.437
7,700.0	7,564.4	7,616.4	7,559.9	27.7	18.3	71.48	651.0	-223.6	930.6	894.0	36.59	25.433
7,790.0	7,654.4	7,706.4	7,649.9	27.8	18.3	71.48	651.0	-223.6	930.6	893.9	36.70	25.356
7,800.0	7,664.4	7,716.4	7,659.9	27.8	18.3	71.48	651.0	-223.6	930.6	893.9	36.71	25.347
7,885.0	7,749.4	7,801.4	7,744.9	27.8	18.4	71.48	651.0	-223.6	930.6	893.8	36.82	25.275
7,900.0	7,764.4	7,816.4	7,759.9	27.8	18.4	71.48	651.0	-223.6	930.6	893.8	36.84	25.262
7,980.0	7,844.4	7,896.4	7,839.9	27.8	18.4	71.48	651.0	-223.6	930.6	893.7	36.94	25.195
8,000.0	7,864.4	7,916.4	7,859.9	27.8	18.5	71.48	651.0	-223.6	930.6	893.6	36.96	25.178
8,075.0	7,939.4	7,991.4	7,934.9	27.8	18.5	71.48	651.0	-223.6	930.6	893.5	37.05	25.115
8,100.0	7,964.4	8,016.4	7,959.9	27.9	18.5	71.48	651.0	-223.6	930.6	893.5	37.08	25.094
8,170.0	8,034.4	8,086.4	8,029.9	27.9	18.6	71.48	651.0	-223.6	930.6	893.4	37.17	25.035
8,200.0	8,064.4	8,116.4	8,059.9	27.9	18.6	71.48	651.0	-223.6	930.6	893.4	37.21	25.010
8,265.0	8,129.4	8,181.4	8,124.9	27.9	18.6	71.48	651.0	-223.6	930.6	893.3	37.29	24.956
8,300.0	8,164.4	8,216.4	8,159.9	27.9	18.6	71.48	651.0	-223.6	930.6	893.3	37.33	24.927
8,360.0	8,224.4	8,276.4	8,219.9	27.9	18.7	71.48	651.0	-223.6	930.6	893.2	37.41	24.878
8,400.0	8,264.4	8,316.4	8,259.9	28.0	18.7	71.48	651.0	-223.6	930.6	893.1	37.46	24.845
8,455.0	8,319.4	8,371.4	8,314.9	28.0	18.7	71.48	651.0	-223.6	930.6	893.1	37.52	24.803
8,486.6	8,351.0	8,403.0	8,346.5	28.0	18.8	71.48	651.0	-223.6	930.6	893.0	37.56	24.779
8,500.0	8,364.4	8,416.4	8,359.9	28.0	18.8	-109.03	651.0	-223.6	930.6	893.1	37.57	24.774
8,550.0	8,414.3	8,466.2	8,409.8	28.0	18.8	-109.12	651.0	-223.6	931.7	894.2	37.58	24.795
8,600.0	8,463.7	8,515.6	8,459.2	28.0	18.8	-109.32	651.0	-223.6	934.3	896.8	37.54	24.891
8,645.0	8,507.4	8,559.4	8,502.9	28.0	18.9	-109.58	651.0	-223.6	937.9	900.5	37.46	25.041
8,650.0	8,512.2	8,564.2	8,507.7	28.0	18.9	-109.61	651.0	-223.6	938.4	900.9	37.44	25.061
8,700.0	8,559.5	8,611.5	8,555.0	28.0	18.9	-109.94	651.0	-223.6	944.1	906.8	37.30	25.309
8,740.0	8,596.2	8,648.2	8,591.7	28.0	18.9	-110.22	651.0	-223.6	950.0	912.8	37.16	25.565
8,750.0	8,605.2	8,657.2	8,600.7	28.0	18.9	-110.29	651.0	-223.6	951.6	914.5	37.12	25.636
8,800.0	8,649.0	8,701.0	8,644.5	28.0	18.9	-110.59	651.0	-223.6	961.1	924.2	36.90	26.045
8,835.0	8,678.3	8,730.3	8,673.8	28.0	19.0	-110.75	651.0	-223.6	969.0	932.2	36.73	26.381
8,850.0	8,690.5	8,742.5	8,686.0	28.1	19.0	-110.80	651.0	-223.6	972.6	936.0	36.65	26.538
8,900.0	8,729.5	8,781.4	8,725.0	28.1	19.0	-110.85	651.0	-223.6	986.4	950.0	36.38	27.116
8,930.0	8,751.5	8,803.4	8,747.0	28.1	19.0	-110.77	651.0	-223.6	995.8	959.6	36.21	27.503
8,950.0	8,765.5	8,817.5	8,761.0	28.1	19.0	-110.67	651.0	-223.6	1,002.6	966.5	36.09	27.778
9,000.0	8,798.4	8,850.4	8,793.9	28.1	19.0	-110.21	651.0	-223.6	1,021.1	985.3	35.80	28.525
9,025.0	8,813.6	8,865.6	8,809.1	28.1	19.0	-109.85	651.0	-223.6	1,031.4	995.7	35.65	28.929
9,050.0	8,827.9	8,879.9	8,823.4	28.1	19.1	-109.40	651.0	-223.6	1,042.2	1,006.7	35.51	29.353
9,100.0	8,853.8	8,905.7	8,849.3	28.2	19.1	-108.16	651.0	-223.6	1,065.7	1,030.5	35.22	30.259
9,120.0	8,863.1	8,915.0	8,858.6	28.2	19.1	-107.53	651.0	-223.6	1,075.8	1,040.7	35.11	30.641
9,150.0	8,875.8	8,927.8	8,871.3	28.2	19.1	-106.43	651.0	-223.6	1,091.7	1,056.7	34.95	31.236
9,200.0	8,893.9	8,945.8	8,889.4	28.2	19.1	-104.15	651.0	-223.6	1,119.9	1,085.2	34.70	32.277
9,215.0	8,898.5	8,950.4	8,894.0	28.3	19.1	-103.35	651.0	-223.6	1,128.8	1,094.2	34.63	32.601
9,250.0	8,907.8	8,959.7	8,903.3	28.3	19.1	-101.25	651.0	-223.6	1,150.3	1,115.8	34.46	33.375
9,300.0	8,917.5	8,969.4	8,913.0	28.3	19.1	-97.70	651.0	-223.6	1,182.4	1,148.2	34.25	34.521
9,310.0	8,918.9	8,970.8	8,914.4	28.3	19.1	-96.91	651.0	-223.6	1,189.1	1,154.9	34.21	34.756
9,350.0	8,922.8	10,405.6	9,756.2	28.4	20.3	-133.55	-188.1	-231.0	1,214.9	1,170.6	44.30	27.425
9,385.6	8,924.0	10,441.2	9,756.2	28.4	20.3	-133.56	-223.6	-231.4	1,214.1	1,169.7	44.43	27.326
9,400.0	8,924.0	10,455.6	9,756.3	28.4	20.3	-133.56	-238.0	-231.5	1,214.1	1,169.6	44.48	27.294
9,405.0	8,924.0	10,460.6	9,756.3	28.5	20.3	-133.56	-243.0	-231.5	1,214.1	1,169.6	44.50	27.283
9,500.0	8,924.2	10,555.6	9,756.3	28.6	20.4	-133.56	-338.0	-232.4	1,214.0	1,169.2	44.88	27.054
9,595.0	8,924.4	10,650.6	9,756.4	28.7	20.5	-133.56	-433.0	-233.2	1,214.0	1,168.7	45.29	26.801
9,600.0	8,924.4	10,655.6	9,756.4	28.7	20.5	-133.56	-438.0	-233.3	1,214.0	1,168.6	45.32	26.788
9,690.0	8,924.6	10,745.6	9,756.5	28.9	20.5	-133.55	-528.0	-234.1	1,213.9	1,168.1	45.76	26.529

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Warning	
9,700.0	8,924.6	10,755.6	9,756.5	28.9	20.6	-133.55	-538.0	-234.1	1,213.9	1,168.1	45.81	26.499		
9,785.0	8,924.8	10,840.6	9,756.6	29.0	20.6	-133.55	-623.0	-234.9	1,213.8	1,167.6	46.26	26.237		
9,800.0	8,924.8	10,855.6	9,756.6	29.1	20.7	-133.55	-638.0	-235.0	1,213.8	1,167.5	46.35	26.190		
9,880.0	8,924.9	10,935.6	9,756.6	29.2	20.8	-133.55	-718.0	-235.7	1,213.8	1,166.9	46.81	25.930		
9,900.0	8,925.0	10,955.6	9,756.6	29.3	20.8	-133.54	-738.0	-235.9	1,213.7	1,166.8	46.93	25.864		
9,975.0	8,925.1	11,030.6	9,756.7	29.4	20.9	-133.54	-813.0	-236.6	1,213.7	1,166.3	47.39	25.608		
10,000.0	8,925.2	11,055.6	9,756.7	29.5	20.9	-133.54	-838.0	-236.8	1,213.7	1,166.1	47.55	25.522		
10,070.0	8,925.3	11,125.6	9,756.8	29.7	21.0	-133.54	-908.0	-237.4	1,213.6	1,165.6	48.02	25.275		
10,100.0	8,925.3	11,155.6	9,756.8	29.7	21.1	-133.54	-938.0	-237.7	1,213.6	1,165.4	48.22	25.168		
10,165.0	8,925.5	11,220.6	9,756.9	29.9	21.2	-133.53	-1,003.0	-238.3	1,213.5	1,164.9	48.68	24.931		
10,200.0	8,925.5	11,255.6	9,756.9	30.0	21.3	-133.53	-1,038.0	-238.6	1,213.5	1,164.6	48.93	24.803		
10,260.0	8,925.6	11,315.6	9,756.9	30.1	21.4	-133.53	-1,098.0	-239.1	1,213.5	1,164.1	49.37	24.580		
10,300.0	8,925.7	11,355.6	9,757.0	30.2	21.5	-133.53	-1,138.0	-239.5	1,213.4	1,163.8	49.67	24.430		
10,355.0	8,925.8	11,410.6	9,757.0	30.4	21.6	-133.53	-1,193.0	-240.0	1,213.4	1,163.3	50.09	24.222		
10,400.0	8,925.9	11,455.6	9,757.0	30.5	21.7	-133.53	-1,238.0	-240.4	1,213.4	1,162.9	50.45	24.051		
10,450.0	8,926.0	11,505.6	9,757.1	30.7	21.8	-133.52	-1,288.0	-240.8	1,213.3	1,162.5	50.85	23.860		
10,500.0	8,926.1	11,555.6	9,757.1	30.8	22.0	-133.52	-1,338.0	-241.2	1,213.3	1,162.0	51.26	23.668		
10,545.0	8,926.2	11,600.6	9,757.2	30.9	22.1	-133.52	-1,383.0	-241.6	1,213.3	1,161.6	51.64	23.495		
10,600.0	8,926.3	11,655.6	9,757.2	31.1	22.3	-133.52	-1,438.0	-242.1	1,213.2	1,161.1	52.11	23.282		
10,640.0	8,926.4	11,695.6	9,757.2	31.2	22.4	-133.52	-1,478.0	-242.5	1,213.2	1,160.7	52.46	23.128		
10,700.0	8,926.5	11,755.6	9,757.3	31.4	22.7	-133.51	-1,538.0	-243.0	1,213.2	1,160.2	52.99	22.896		
10,735.0	8,926.5	11,790.6	9,757.3	31.5	22.8	-133.51	-1,573.0	-243.3	1,213.1	1,159.8	53.30	22.760		
10,800.0	8,926.7	11,855.6	9,757.4	31.8	23.0	-133.51	-1,638.0	-243.9	1,213.1	1,159.2	53.89	22.509		
10,830.0	8,926.7	11,885.6	9,757.4	31.9	23.2	-133.51	-1,668.0	-244.2	1,213.1	1,158.9	54.17	22.393		
10,900.0	8,926.9	11,955.6	9,757.4	32.1	23.4	-133.51	-1,738.0	-244.8	1,213.0	1,158.2	54.83	22.124		
10,925.0	8,926.9	11,980.6	9,757.5	32.2	23.6	-133.51	-1,763.0	-245.0	1,213.0	1,157.9	55.07	22.028		
11,000.0	8,927.0	12,055.6	9,757.5	32.5	23.9	-133.50	-1,838.0	-245.7	1,212.9	1,157.1	55.79	21.741		
11,020.0	8,927.1	12,075.6	9,757.5	32.5	24.0	-133.50	-1,858.0	-245.9	1,212.9	1,156.9	55.98	21.665		
11,100.0	8,927.2	12,155.6	9,757.6	32.8	24.4	-133.50	-1,938.0	-246.6	1,212.9	1,156.1	56.78	21.362		
11,115.0	8,927.3	12,170.6	9,757.6	32.9	24.4	-133.50	-1,953.0	-246.7	1,212.8	1,155.9	56.93	21.306		
11,200.0	8,927.4	12,255.6	9,757.7	33.2	24.9	-133.50	-2,038.0	-247.5	1,212.8	1,155.0	57.79	20.988		
11,210.0	8,927.4	12,265.6	9,757.7	33.3	24.9	-133.50	-2,048.0	-247.5	1,212.8	1,154.9	57.89	20.950		
11,300.0	8,927.6	12,355.6	9,757.8	33.6	25.4	-133.49	-2,138.0	-248.3	1,212.7	1,153.9	58.82	20.618		
11,305.0	8,927.6	12,360.6	9,757.8	33.6	25.4	-133.49	-2,143.0	-248.4	1,212.7	1,153.8	58.87	20.599		
11,400.0	8,927.8	12,455.6	9,757.8	34.0	25.9	-133.49	-2,238.0	-249.2	1,212.6	1,152.8	59.87	20.254		
11,495.0	8,928.0	12,550.6	9,757.9	34.4	26.5	-133.48	-2,333.0	-250.1	1,212.6	1,151.7	60.89	19.913		
11,500.0	8,928.0	12,555.6	9,757.9	34.5	26.5	-133.48	-2,338.0	-250.1	1,212.6	1,151.6	60.95	19.895		
11,590.0	8,928.2	12,645.6	9,758.0	34.8	27.0	-133.48	-2,427.9	-250.9	1,212.5	1,150.6	61.93	19.578		
11,600.0	8,928.2	12,655.6	9,758.0	34.9	27.1	-133.48	-2,437.9	-251.0	1,212.5	1,150.4	62.04	19.543		
11,685.0	8,928.3	12,740.6	9,758.1	35.3	27.6	-133.48	-2,522.9	-251.8	1,212.4	1,149.4	62.99	19.249		
11,700.0	8,928.4	12,755.6	9,758.1	35.3	27.7	-133.48	-2,537.9	-251.9	1,212.4	1,149.3	63.15	19.198		
11,780.0	8,928.5	12,835.6	9,758.1	35.7	28.1	-133.47	-2,617.9	-252.6	1,212.4	1,148.3	64.06	18.926		
11,800.0	8,928.6	12,855.6	9,758.2	35.8	28.3	-133.47	-2,637.9	-252.8	1,212.3	1,148.1	64.28	18.859		
11,875.0	8,928.7	12,930.6	9,758.2	36.1	28.7	-133.47	-2,712.9	-253.4	1,212.3	1,147.1	65.14	18.609		
11,900.0	8,928.7	12,955.6	9,758.2	36.2	28.9	-133.47	-2,737.9	-253.7	1,212.3	1,146.8	65.43	18.527		
11,970.0	8,928.9	13,025.6	9,758.3	36.6	29.3	-133.47	-2,807.9	-254.3	1,212.2	1,146.0	66.24	18.299		
12,000.0	8,928.9	13,055.6	9,758.3	36.7	29.5	-133.46	-2,837.9	-254.6	1,212.2	1,145.6	66.59	18.203		
12,065.0	8,929.1	13,120.6	9,758.4	37.0	29.9	-133.46	-2,902.9	-255.1	1,212.1	1,144.8	67.36	17.995		
12,100.0	8,929.1	13,155.6	9,758.4	37.2	30.1	-133.46	-2,937.9	-255.4	1,212.1	1,144.3	67.77	17.885		
12,160.0	8,929.2	13,215.6	9,758.4	37.5	30.5	-133.46	-2,997.9	-256.0	1,212.1	1,143.6	68.49	17.698		
12,200.0	8,929.3	13,255.6	9,758.5	37.7	30.8	-133.46	-3,037.9	-256.3	1,212.0	1,143.1	68.96	17.575		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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: Reference		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 Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
12,255.0	8,929.4	13,310.6	9,758.5	38.0	31.1	-133.46	-3,092.9	-256.8	1,212.0	1,142.4	69.62	17.408		
12,300.0	8,929.5	13,355.6	9,758.5	38.2	31.4	-133.45	-3,137.9	-257.2	1,212.0	1,141.8	70.17	17.272		
12,350.0	8,929.6	13,405.6	9,758.6	38.5	31.7	-133.45	-3,187.9	-257.7	1,211.9	1,141.2	70.78	17.124		
12,400.0	8,929.7	13,455.6	9,758.6	38.7	32.1	-133.45	-3,237.9	-258.1	1,211.9	1,140.5	71.39	16.977		
12,445.0	8,929.8	13,500.6	9,758.7	38.9	32.4	-133.45	-3,282.9	-258.5	1,211.9	1,139.9	71.94	16.846		
12,500.0	8,929.9	13,555.6	9,758.7	39.2	32.7	-133.45	-3,337.9	-259.0	1,211.8	1,139.2	72.62	16.688		
12,540.0	8,930.0	13,595.6	9,758.7	39.4	33.0	-133.44	-3,377.9	-259.3	1,211.8	1,138.7	73.11	16.575		
12,600.0	8,930.1	13,655.6	9,758.8	39.8	33.4	-133.44	-3,437.9	-259.9	1,211.7	1,137.9	73.86	16.407		
12,635.0	8,930.1	13,690.6	9,758.8	39.9	33.6	-133.44	-3,472.9	-260.2	1,211.7	1,137.4	74.30	16.310		
12,700.0	8,930.3	13,755.6	9,758.9	40.3	34.1	-133.44	-3,537.9	-260.8	1,211.7	1,136.6	75.11	16.132		
12,730.0	8,930.3	13,785.6	9,758.9	40.5	34.3	-133.44	-3,567.9	-261.0	1,211.7	1,136.2	75.49	16.051		
12,800.0	8,930.4	13,855.6	9,758.9	40.8	34.7	-133.43	-3,637.9	-261.7	1,211.6	1,135.2	76.37	15.864		
12,825.0	8,930.5	13,880.6	9,759.0	41.0	34.9	-133.43	-3,662.9	-261.9	1,211.6	1,134.9	76.69	15.798		
12,900.0	8,930.6	13,955.6	9,759.0	41.4	35.4	-133.43	-3,737.9	-262.5	1,211.5	1,133.9	77.65	15.603		
12,920.0	8,930.7	13,975.6	9,759.0	41.5	35.6	-133.43	-3,757.9	-262.7	1,211.5	1,133.6	77.90	15.552		
13,000.0	8,930.8	14,055.6	9,759.1	41.9	36.1	-133.43	-3,837.9	-263.4	1,211.5	1,132.5	78.93	15.348		
13,015.0	8,930.8	14,070.6	9,759.1	42.0	36.2	-133.43	-3,852.9	-263.6	1,211.4	1,132.3	79.12	15.311		
13,100.0	8,931.0	14,155.6	9,759.2	42.5	36.8	-133.42	-3,937.9	-264.3	1,211.4	1,131.2	80.22	15.100		
13,110.0	8,931.0	14,165.6	9,759.2	42.6	36.9	-133.42	-3,947.9	-264.4	1,211.4	1,131.0	80.35	15.076		
13,200.0	8,931.2	14,255.6	9,759.3	43.1	37.5	-133.42	-4,037.9	-265.2	1,211.3	1,129.8	81.52	14.859		
13,205.0	8,931.2	14,260.6	9,759.3	43.1	37.5	-133.42	-4,042.9	-265.2	1,211.3	1,129.7	81.59	14.847		
13,300.0	8,931.4	14,355.6	9,759.3	43.6	38.2	-133.42	-4,137.9	-266.1	1,211.2	1,128.4	82.83	14.623		
13,395.0	8,931.6	14,450.6	9,759.4	44.2	38.8	-133.41	-4,232.9	-266.9	1,211.2	1,127.1	84.08	14.405		
13,400.0	8,931.6	14,455.6	9,759.4	44.2	38.9	-133.41	-4,237.9	-267.0	1,211.2	1,127.0	84.15	14.393		
13,490.0	8,931.7	14,545.6	9,759.5	44.7	39.5	-133.41	-4,327.9	-267.8	1,211.1	1,125.8	85.34	14.191		
13,500.0	8,931.8	14,555.6	9,759.5	44.8	39.6	-133.41	-4,337.9	-267.9	1,211.1	1,125.6	85.47	14.169		
13,585.0	8,931.9	14,640.6	9,759.6	45.3	40.2	-133.40	-4,422.9	-268.6	1,211.0	1,124.4	86.60	13.984		
13,600.0	8,931.9	14,655.6	9,759.6	45.4	40.3	-133.40	-4,437.9	-268.8	1,211.0	1,124.2	86.80	13.951		
13,680.0	8,932.1	14,735.6	9,759.6	45.9	40.8	-133.40	-4,517.9	-269.5	1,210.9	1,123.1	87.87	13.781		
13,700.0	8,932.1	14,755.6	9,759.7	46.0	41.0	-133.40	-4,537.9	-269.6	1,210.9	1,122.8	88.14	13.738		
13,775.0	8,932.3	14,830.6	9,759.7	46.4	41.5	-133.40	-4,612.9	-270.3	1,210.9	1,121.7	89.15	13.582		
13,800.0	8,932.3	14,855.6	9,759.7	46.6	41.7	-133.40	-4,637.9	-270.5	1,210.9	1,121.4	89.49	13.531		
13,870.0	8,932.5	14,925.6	9,759.8	47.0	42.2	-133.39	-4,707.9	-271.1	1,210.8	1,120.4	90.43	13.389		
13,900.0	8,932.5	14,955.6	9,759.8	47.2	42.4	-133.39	-4,737.9	-271.4	1,210.8	1,119.9	90.84	13.329		
13,965.0	8,932.6	15,020.6	9,759.9	47.6	42.9	-133.39	-4,802.9	-272.0	1,210.7	1,119.0	91.72	13.200		
14,000.0	8,932.7	15,055.6	9,759.9	47.8	43.1	-133.39	-4,837.9	-272.3	1,210.7	1,118.5	92.20	13.132		
14,060.0	8,932.8	15,115.6	9,759.9	48.2	43.5	-133.39	-4,897.8	-272.8	1,210.7	1,117.7	93.01	13.016		
14,100.0	8,932.9	15,155.6	9,760.0	48.4	43.8	-133.38	-4,937.8	-273.2	1,210.6	1,117.1	93.56	12.940		
14,155.0	8,933.0	15,210.6	9,760.0	48.8	44.2	-133.38	-4,992.8	-273.7	1,210.6	1,116.3	94.31	12.836		
14,200.0	8,933.1	15,255.6	9,760.1	49.0	44.5	-133.38	-5,037.8	-274.1	1,210.6	1,115.6	94.93	12.753		
14,250.0	8,933.2	15,305.6	9,760.1	49.3	44.9	-133.38	-5,087.8	-274.5	1,210.5	1,114.9	95.61	12.661		
14,300.0	8,933.3	15,355.6	9,760.1	49.7	45.2	-133.38	-5,137.8	-275.0	1,210.5	1,114.2	96.30	12.570		
14,345.0	8,933.4	15,400.6	9,760.2	49.9	45.6	-133.38	-5,182.8	-275.4	1,210.5	1,113.5	96.92	12.489		
14,400.0	8,933.5	15,455.6	9,760.2	50.3	46.0	-133.37	-5,237.8	-275.8	1,210.4	1,112.7	97.68	12.392		
14,440.0	8,933.5	15,495.6	9,760.2	50.5	46.3	-133.37	-5,277.8	-276.2	1,210.4	1,112.2	98.23	12.322		
14,500.0	8,933.6	15,555.6	9,760.3	50.9	46.7	-133.37	-5,337.8	-276.7	1,210.3	1,111.3	99.06	12.218		
14,535.0	8,933.7	15,590.6	9,760.3	51.1	46.9	-133.37	-5,372.8	-277.0	1,210.3	1,110.8	99.55	12.158		
14,600.0	8,933.8	15,655.6	9,760.4	51.6	47.4	-133.37	-5,437.8	-277.6	1,210.3	1,109.8	100.45	12.048		
14,630.0	8,933.9	15,685.6	9,760.4	51.7	47.6	-133.36	-5,467.8	-277.9	1,210.2	1,109.4	100.87	11.998		
14,700.0	8,934.0	15,755.6	9,760.4	52.2	48.1	-133.36	-5,537.8	-278.5	1,210.2	1,108.4	101.84	11.883		
14,725.0	8,934.1	15,780.6	9,760.5	52.4	48.3	-133.36	-5,562.8	-278.7	1,210.2	1,108.0	102.19	11.842		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		
14,800.0	8,934.2	15,855.6	9,760.5	52.8	48.9	-133.36	-5,637.8	-279.4	1,210.1	1,106.9	103.24	11.721		
14,820.0	8,934.3	15,875.6	9,760.5	53.0	49.0	-133.36	-5,657.8	-279.6	1,210.1	1,106.6	103.52	11.689		
14,900.0	8,934.4	15,955.6	9,760.6	53.5	49.6	-133.35	-5,737.8	-280.3	1,210.0	1,105.4	104.64	11.564		
14,915.0	8,934.4	15,970.6	9,760.6	53.6	49.7	-133.35	-5,752.8	-280.4	1,210.0	1,105.2	104.85	11.540		
15,000.0	8,934.6	16,055.6	9,760.7	54.1	50.3	-133.35	-5,837.8	-281.2	1,210.0	1,103.9	106.05	11.410		
15,010.0	8,934.6	16,065.6	9,760.7	54.2	50.4	-133.35	-5,847.8	-281.3	1,210.0	1,103.8	106.19	11.394		
15,100.0	8,934.8	16,155.6	9,760.8	54.8	51.0	-133.35	-5,937.8	-282.1	1,209.9	1,102.4	107.46	11.259		
15,105.0	8,934.8	16,160.6	9,760.8	54.8	51.1	-133.35	-5,942.8	-282.1	1,209.9	1,102.4	107.53	11.252		
15,200.0	8,935.0	16,255.6	9,760.8	55.4	51.8	-133.34	-6,037.8	-282.9	1,209.8	1,101.0	108.87	11.113		
15,295.0	8,935.1	16,350.6	9,760.9	56.1	52.5	-133.34	-6,132.8	-283.8	1,209.8	1,099.5	110.22	10.976		
15,300.0	8,935.2	16,355.6	9,760.9	56.1	52.5	-133.34	-6,137.8	-283.8	1,209.8	1,099.5	110.29	10.969		
15,390.0	8,935.3	16,445.6	9,761.0	56.7	53.1	-133.34	-6,227.8	-284.6	1,209.7	1,098.1	111.56	10.843		
15,400.0	8,935.3	16,455.6	9,761.0	56.8	53.2	-133.34	-6,237.8	-284.7	1,209.7	1,098.0	111.71	10.829		
15,485.0	8,935.5	16,540.6	9,761.1	57.3	53.8	-133.33	-6,322.8	-285.5	1,209.6	1,096.7	112.92	10.713		
15,500.0	8,935.5	16,555.6	9,761.1	57.4	54.0	-133.33	-6,337.8	-285.6	1,209.6	1,096.5	113.13	10.692		
15,580.0	8,935.7	16,635.6	9,761.1	57.9	54.5	-133.33	-6,417.8	-286.3	1,209.5	1,095.3	114.27	10.585		
15,600.0	8,935.7	16,655.6	9,761.2	58.1	54.7	-133.33	-6,437.8	-286.5	1,209.5	1,095.0	114.55	10.559		
15,675.0	8,935.9	16,730.6	9,761.2	58.6	55.2	-133.32	-6,512.8	-287.2	1,209.5	1,093.9	115.63	10.460		
15,700.0	8,935.9	16,755.6	9,761.2	58.7	55.4	-133.32	-6,537.8	-287.4	1,209.5	1,093.5	115.98	10.428		
15,770.0	8,936.0	16,825.6	9,761.3	59.2	55.9	-133.32	-6,607.8	-288.0	1,209.4	1,092.4	116.99	10.338		
15,800.0	8,936.1	16,855.6	9,761.3	59.4	56.2	-133.32	-6,637.8	-288.3	1,209.4	1,092.0	117.42	10.300		
15,865.0	8,936.2	16,920.6	9,761.4	59.9	56.6	-133.32	-6,702.8	-288.8	1,209.3	1,091.0	118.35	10.218		
15,900.0	8,936.3	16,955.6	9,761.4	60.1	56.9	-133.32	-6,737.8	-289.2	1,209.3	1,090.5	118.85	10.175		
15,960.0	8,936.4	17,015.6	9,761.4	60.5	57.3	-133.31	-6,797.8	-289.7	1,209.3	1,089.6	119.71	10.101		
16,000.0	8,936.5	17,055.6	9,761.5	60.8	57.6	-133.31	-6,837.8	-290.0	1,209.2	1,088.9	120.29	10.053		
16,055.0	8,936.6	17,110.6	9,761.5	61.1	58.0	-133.31	-6,892.8	-290.5	1,209.2	1,088.1	121.08	9.987		
16,100.0	8,936.7	17,155.6	9,761.6	61.4	58.4	-133.31	-6,937.8	-290.9	1,209.2	1,087.4	121.73	9.933		
16,150.0	8,936.8	17,205.6	9,761.6	61.8	58.7	-133.31	-6,987.8	-291.4	1,209.1	1,086.7	122.45	9.874		
16,200.0	8,936.9	17,255.6	9,761.6	62.1	59.1	-133.30	-7,037.8	-291.8	1,209.1	1,085.9	123.17	9.816		
16,245.0	8,936.9	17,300.6	9,761.7	62.4	59.4	-133.30	-7,082.8	-292.2	1,209.1	1,085.2	123.82	9.765		
16,300.0	8,937.0	17,355.6	9,761.7	62.8	59.8	-133.30	-7,137.8	-292.7	1,209.0	1,084.4	124.62	9.702		
16,340.0	8,937.1	17,395.6	9,761.7	63.1	60.1	-133.30	-7,177.8	-293.1	1,209.0	1,083.8	125.20	9.657		
16,400.0	8,937.2	17,455.6	9,761.8	63.5	60.6	-133.30	-7,237.8	-293.6	1,208.9	1,082.9	126.06	9.590		
16,435.0	8,937.3	17,490.6	9,761.8	63.7	60.8	-133.30	-7,272.8	-293.9	1,208.9	1,082.3	126.57	9.551		
16,500.0	8,937.4	17,555.6	9,761.9	64.2	61.3	-133.29	-7,337.8	-294.5	1,208.9	1,081.4	127.51	9.480		
16,530.0	8,937.5	17,585.6	9,761.9	64.4	61.5	-133.29	-7,367.8	-294.7	1,208.8	1,080.9	127.95	9.448		
16,600.0	8,937.6	17,655.6	9,762.0	64.9	62.1	-133.29	-7,437.7	-295.4	1,208.8	1,079.8	128.97	9.373		
16,625.0	8,937.7	17,680.6	9,762.0	65.0	62.2	-133.29	-7,462.7	-295.6	1,208.8	1,079.4	129.33	9.346		
16,700.0	8,937.8	17,755.6	9,762.0	65.5	62.8	-133.29	-7,537.7	-296.3	1,208.7	1,078.3	130.42	9.268		
16,720.0	8,937.8	17,775.6	9,762.1	65.7	63.0	-133.28	-7,557.7	-296.4	1,208.7	1,078.0	130.71	9.247		
16,800.0	8,938.0	17,855.6	9,762.1	66.2	63.5	-133.28	-7,637.7	-297.1	1,208.6	1,076.8	131.88	9.165		
16,815.0	8,938.0	17,870.6	9,762.1	66.3	63.7	-133.28	-7,652.7	-297.3	1,208.6	1,076.5	132.10	9.150		
16,900.0	8,938.2	17,955.6	9,762.2	66.9	64.3	-133.28	-7,737.7	-298.0	1,208.6	1,075.2	133.33	9.064		
16,910.0	8,938.2	17,965.6	9,762.2	67.0	64.4	-133.28	-7,747.7	-298.1	1,208.6	1,075.1	133.48	9.054		
17,000.0	8,938.4	18,055.6	9,762.3	67.6	65.0	-133.27	-7,837.7	-298.9	1,208.5	1,073.7	134.80	8.965		
17,005.0	8,938.4	18,060.6	9,762.3	67.7	65.1	-133.27	-7,842.7	-299.0	1,208.5	1,073.6	134.87	8.961		
17,100.0	8,938.6	18,155.6	9,762.4	68.3	65.8	-133.27	-7,937.7	-299.8	1,208.4	1,072.2	136.26	8.869		
17,195.0	8,938.7	18,250.6	9,762.4	69.0	66.5	-133.27	-8,032.7	-300.6	1,208.4	1,070.7	137.65	8.779		
17,200.0	8,938.7	18,255.6	9,762.4	69.0	66.5	-133.27	-8,037.7	-300.7	1,208.4	1,070.6	137.72	8.774		
17,290.0	8,938.9	18,345.6	9,762.5	69.6	67.2	-133.26	-8,127.7	-301.5	1,208.3	1,069.2	139.04	8.690		
17,300.0	8,938.9	18,355.6	9,762.5	69.7	67.3	-133.26	-8,137.7	-301.6	1,208.3	1,069.1	139.19	8.681		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
17,385.0	8,939.1	18,440.6	9,762.6	70.3	67.9	-133.26	-8,222.7	-302.3	1,208.2	1,067.8	140.43	8.603
17,400.0	8,939.1	18,455.6	9,762.6	70.4	68.0	-133.26	-8,237.7	-302.5	1,208.2	1,067.6	140.65	8.590
17,480.0	8,939.3	18,535.6	9,762.7	71.0	68.6	-133.26	-8,317.7	-303.2	1,208.1	1,066.3	141.83	8.518
17,500.0	8,939.3	18,555.6	9,762.7	71.1	68.7	-133.25	-8,337.7	-303.4	1,208.1	1,066.0	142.12	8.501
17,575.0	8,939.4	18,630.6	9,762.7	71.6	69.3	-133.25	-8,412.7	-304.0	1,208.1	1,064.9	143.23	8.435
17,600.0	8,939.5	18,655.6	9,762.7	71.8	69.5	-133.25	-8,437.7	-304.2	1,208.1	1,064.5	143.59	8.413
17,670.0	8,939.6	18,725.6	9,762.8	72.3	70.0	-133.25	-8,507.7	-304.9	1,208.0	1,063.4	144.62	8.353
17,700.0	8,939.7	18,755.6	9,762.8	72.5	70.2	-133.25	-8,537.7	-305.1	1,208.0	1,062.9	145.07	8.327
17,765.0	8,939.8	18,820.6	9,762.9	73.0	70.7	-133.24	-8,602.7	-305.7	1,207.9	1,061.9	146.02	8.272
17,800.0	8,939.9	18,855.6	9,762.9	73.2	71.0	-133.24	-8,637.7	-306.0	1,207.9	1,061.4	146.54	8.243
17,860.0	8,940.0	18,915.6	9,763.0	73.6	71.4	-133.24	-8,697.7	-306.5	1,207.9	1,060.4	147.42	8.193
17,900.0	8,940.1	18,955.6	9,763.0	73.9	71.7	-133.24	-8,737.7	-306.9	1,207.8	1,059.8	148.01	8.160
17,955.0	8,940.2	19,010.6	9,763.0	74.3	72.1	-133.24	-8,792.7	-307.4	1,207.8	1,059.0	148.83	8.115
18,000.0	8,940.2	19,055.6	9,763.1	74.6	72.5	-133.24	-8,837.7	-307.8	1,207.8	1,058.3	149.49	8.079
18,050.0	8,940.3	19,105.6	9,763.1	75.0	72.9	-133.23	-8,887.7	-308.2	1,207.7	1,057.5	150.23	8.039
18,100.0	8,940.4	19,155.6	9,763.1	75.3	73.2	-133.23	-8,937.7	-308.7	1,207.7	1,056.7	150.97	8.000
18,145.0	8,940.5	19,200.6	9,763.2	75.7	73.6	-133.23	-8,982.7	-309.1	1,207.7	1,056.0	151.63	7.964
18,200.0	8,940.6	19,255.6	9,763.2	76.0	74.0	-133.23	-9,037.7	-309.6	1,207.6	1,055.2	152.45	7.921
18,240.0	8,940.7	19,295.6	9,763.3	76.3	74.3	-133.23	-9,077.7	-309.9	1,207.6	1,054.5	153.04	7.891
18,300.0	8,940.8	19,355.6	9,763.3	76.8	74.7	-133.22	-9,137.7	-310.5	1,207.5	1,053.6	153.93	7.845
18,335.0	8,940.9	19,390.6	9,763.3	77.0	75.0	-133.22	-9,172.7	-310.8	1,207.5	1,053.1	154.45	7.818
18,400.0	8,941.0	19,455.6	9,763.4	77.5	75.5	-133.22	-9,237.7	-311.3	1,207.5	1,052.1	155.41	7.770
18,430.0	8,941.1	19,485.6	9,763.4	77.7	75.7	-133.22	-9,267.7	-311.6	1,207.4	1,051.6	155.86	7.747
18,500.0	8,941.2	19,555.6	9,763.5	78.2	76.2	-133.22	-9,337.7	-312.2	1,207.4	1,050.5	156.89	7.696
18,525.0	8,941.2	19,580.6	9,763.5	78.4	76.4	-133.22	-9,362.7	-312.4	1,207.4	1,050.1	157.26	7.677
18,600.0	8,941.4	19,655.6	9,763.5	78.9	77.0	-133.21	-9,437.7	-313.1	1,207.3	1,048.9	158.38	7.623
18,620.0	8,941.4	19,675.6	9,763.6	79.0	77.1	-133.21	-9,457.7	-313.3	1,207.3	1,048.6	158.67	7.609
18,700.0	8,941.6	19,755.6	9,763.6	79.6	77.7	-133.21	-9,537.7	-314.0	1,207.2	1,047.4	159.86	7.552
18,715.0	8,941.6	19,770.6	9,763.6	79.7	77.8	-133.21	-9,552.7	-314.1	1,207.2	1,047.2	160.09	7.541
18,800.0	8,941.8	19,855.6	9,763.7	80.3	78.5	-133.20	-9,637.7	-314.9	1,207.2	1,045.8	161.35	7.482
18,810.0	8,941.8	19,865.6	9,763.7	80.4	78.5	-133.20	-9,647.7	-315.0	1,207.2	1,045.7	161.50	7.475
18,900.0	8,941.9	19,955.6	9,763.8	81.0	79.2	-133.20	-9,737.7	-315.8	1,207.1	1,044.3	162.84	7.413
18,905.0	8,942.0	19,960.6	9,763.8	81.1	79.3	-133.20	-9,742.7	-315.8	1,207.1	1,044.2	162.91	7.410
19,000.0	8,942.1	20,055.6	9,763.9	81.8	80.0	-133.20	-9,837.7	-316.7	1,207.0	1,042.7	164.33	7.345
19,095.0	8,942.3	20,150.6	9,763.9	82.4	80.7	-133.19	-9,932.6	-317.5	1,207.0	1,041.2	165.74	7.282
19,100.0	8,942.3	20,155.6	9,763.9	82.5	80.7	-133.19	-9,937.6	-317.5	1,207.0	1,041.1	165.82	7.279
19,190.0	8,942.5	20,245.6	9,764.0	83.1	81.4	-133.19	-10,027.6	-318.3	1,206.9	1,039.7	167.16	7.220
19,200.0	8,942.5	20,255.6	9,764.0	83.2	81.5	-133.19	-10,037.6	-318.4	1,206.9	1,039.6	167.31	7.214
19,285.0	8,942.7	20,340.6	9,764.1	83.8	82.1	-133.19	-10,122.6	-319.2	1,206.8	1,038.2	168.57	7.159
19,300.0	8,942.7	20,355.6	9,764.1	83.9	82.2	-133.19	-10,137.6	-319.3	1,206.8	1,038.0	168.80	7.149
19,380.0	8,942.9	20,435.6	9,764.2	84.5	82.8	-133.18	-10,217.6	-320.0	1,206.7	1,036.8	169.99	7.099
19,400.0	8,942.9	20,455.6	9,764.2	84.6	83.0	-133.18	-10,237.6	-320.2	1,206.7	1,036.4	170.29	7.086
19,475.0	8,943.0	20,530.6	9,764.2	85.2	83.5	-133.18	-10,312.6	-320.9	1,206.7	1,035.3	171.41	7.040
19,500.0	8,943.1	20,555.6	9,764.3	85.3	83.7	-133.18	-10,337.6	-321.1	1,206.7	1,034.9	171.78	7.024
19,570.0	8,943.2	20,625.6	9,764.3	85.9	84.2	-133.17	-10,407.6	-321.7	1,206.6	1,033.8	172.83	6.981
19,600.0	8,943.3	20,655.6	9,764.3	86.1	84.5	-133.17	-10,437.6	-322.0	1,206.6	1,033.3	173.28	6.963
19,665.0	8,943.4	20,720.6	9,764.4	86.5	85.0	-133.17	-10,502.6	-322.6	1,206.5	1,032.3	174.25	6.924
19,700.0	8,943.5	20,755.6	9,764.4	86.8	85.2	-133.17	-10,537.6	-322.9	1,206.5	1,031.7	174.77	6.903
19,760.0	8,943.6	20,815.6	9,764.5	87.2	85.7	-133.17	-10,597.6	-323.4	1,206.5	1,030.8	175.67	6.868
19,800.0	8,943.6	20,855.6	9,764.5	87.5	86.0	-133.17	-10,637.6	-323.8	1,206.4	1,030.2	176.27	6.844
19,855.0	8,943.7	20,910.6	9,764.5	87.9	86.4	-133.16	-10,692.6	-324.2	1,206.4	1,029.3	177.09	6.812

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)		
19,900.0	8,943.8	20,955.6	9,764.6	88.2	86.7	-133.16	-10,737.6	-324.6	1,206.4	1,028.6	177.77	6.786
19,950.0	8,943.9	21,005.6	9,764.6	88.6	87.1	-133.16	-10,787.6	-325.1	1,206.3	1,027.8	178.52	6.758
20,000.0	8,944.0	21,055.6	9,764.6	89.0	87.5	-133.16	-10,837.6	-325.5	1,206.3	1,027.0	179.26	6.729
20,045.0	8,944.1	21,100.6	9,764.7	89.3	87.8	-133.16	-10,882.6	-325.9	1,206.3	1,026.3	179.94	6.704
20,100.0	8,944.2	21,155.6	9,764.7	89.7	88.2	-133.15	-10,937.6	-326.4	1,206.2	1,025.5	180.76	6.673
20,140.0	8,944.3	21,195.6	9,764.8	90.0	88.5	-133.15	-10,977.6	-326.8	1,206.2	1,024.8	181.36	6.651
20,200.0	8,944.4	21,255.6	9,764.8	90.4	89.0	-133.15	-11,037.6	-327.3	1,206.1	1,023.9	182.26	6.618
20,235.0	8,944.5	21,290.6	9,764.8	90.7	89.3	-133.15	-11,072.6	-327.6	1,206.1	1,023.3	182.79	6.598
20,300.0	8,944.6	21,355.6	9,764.9	91.1	89.7	-133.15	-11,137.6	-328.2	1,206.1	1,022.3	183.76	6.563
20,330.0	8,944.6	21,385.6	9,764.9	91.4	90.0	-133.15	-11,167.6	-328.5	1,206.1	1,021.8	184.21	6.547
20,400.0	8,944.8	21,455.6	9,765.0	91.9	90.5	-133.14	-11,237.6	-329.1	1,206.0	1,020.7	185.26	6.510
20,425.0	8,944.8	21,480.6	9,765.0	92.1	90.7	-133.14	-11,262.6	-329.3	1,206.0	1,020.3	185.64	6.496
20,500.0	8,945.0	21,555.6	9,765.0	92.6	91.2	-133.14	-11,337.6	-330.0	1,205.9	1,019.2	186.77	6.457
20,520.0	8,945.0	21,575.6	9,765.1	92.7	91.4	-133.14	-11,357.6	-330.1	1,205.9	1,018.8	187.07	6.446
20,600.0	8,945.2	21,655.6	9,765.1	93.3	92.0	-133.14	-11,437.6	-330.9	1,205.9	1,017.6	188.27	6.405
20,615.0	8,945.2	21,670.6	9,765.1	93.4	92.1	-133.13	-11,452.6	-331.0	1,205.8	1,017.3	188.49	6.397
20,700.0	8,945.3	21,755.6	9,765.2	94.1	92.8	-133.13	-11,537.6	-331.7	1,205.8	1,016.0	189.77	6.354
20,710.0	8,945.4	21,765.6	9,765.2	94.1	92.8	-133.13	-11,547.6	-331.8	1,205.8	1,015.9	189.92	6.349
20,800.0	8,945.5	21,855.6	9,765.3	94.8	93.5	-133.13	-11,637.6	-332.6	1,205.7	1,014.4	191.27	6.304
20,805.0	8,945.5	21,860.6	9,765.3	94.8	93.5	-133.13	-11,642.6	-332.7	1,205.7	1,014.4	191.35	6.301
20,900.0	8,945.7	21,955.6	9,765.4	95.5	94.3	-133.12	-11,737.6	-333.5	1,205.6	1,012.9	192.78	6.254
20,995.0	8,945.9	22,050.6	9,765.4	96.2	95.0	-133.12	-11,832.6	-334.4	1,205.6	1,011.4	194.21	6.208
21,000.0	8,945.9	22,055.6	9,765.4	96.2	95.0	-133.12	-11,837.6	-334.4	1,205.6	1,011.3	194.28	6.205
21,090.0	8,946.1	22,145.6	9,765.5	96.9	95.7	-133.12	-11,927.6	-335.2	1,205.5	1,009.9	195.64	6.162
21,100.0	8,946.1	22,155.6	9,765.5	97.0	95.8	-133.12	-11,937.6	-335.3	1,205.5	1,009.7	195.79	6.157
21,185.0	8,946.3	22,240.6	9,765.6	97.6	96.4	-133.11	-12,022.6	-336.0	1,205.4	1,008.4	197.07	6.117
21,200.0	8,946.3	22,255.6	9,765.6	97.7	96.5	-133.11	-12,037.6	-336.2	1,205.4	1,008.1	197.30	6.110
21,280.0	8,946.4	22,335.6	9,765.7	98.3	97.1	-133.11	-12,117.6	-336.9	1,205.4	1,006.9	198.50	6.072
21,300.0	8,946.5	22,355.6	9,765.7	98.4	97.3	-133.11	-12,137.6	-337.1	1,205.3	1,006.5	198.80	6.063
21,375.0	8,946.6	22,430.6	9,765.7	99.0	97.9	-133.11	-12,212.6	-337.7	1,205.3	1,005.4	199.93	6.028
21,400.0	8,946.7	22,455.6	9,765.8	99.2	98.0	-133.10	-12,237.6	-338.0	1,205.3	1,005.0	200.31	6.017
21,470.0	8,946.8	22,525.6	9,765.8	99.7	98.6	-133.10	-12,307.6	-338.6	1,205.2	1,003.8	201.37	5.985
21,500.0	8,946.9	22,555.6	9,765.8	99.9	98.8	-133.10	-12,337.6	-338.8	1,205.2	1,003.4	201.82	5.972
21,565.0	8,947.0	22,620.6	9,765.9	100.4	99.3	-133.10	-12,402.5	-339.4	1,205.1	1,002.3	202.80	5.943
21,600.0	8,947.0	22,655.6	9,765.9	100.6	99.5	-133.10	-12,437.5	-339.7	1,205.1	1,001.8	203.33	5.927
21,660.0	8,947.2	22,715.6	9,766.0	101.1	100.0	-133.09	-12,497.5	-340.3	1,205.1	1,000.8	204.23	5.901
21,700.0	8,947.2	22,755.6	9,766.0	101.4	100.3	-133.09	-12,537.5	-340.6	1,205.0	1,000.2	204.84	5.883
21,755.0	8,947.3	22,810.6	9,766.0	101.8	100.7	-133.09	-12,592.5	-341.1	1,205.0	999.3	205.67	5.859
21,800.0	8,947.4	22,855.6	9,766.1	102.1	101.1	-133.09	-12,637.5	-341.5	1,205.0	998.6	206.35	5.840
21,850.0	8,947.5	22,905.6	9,766.1	102.5	101.4	-133.09	-12,687.5	-341.9	1,204.9	997.8	207.10	5.818
21,900.0	8,947.6	22,955.6	9,766.2	102.8	101.8	-133.09	-12,737.5	-342.4	1,204.9	997.0	207.86	5.797
21,945.0	8,947.7	23,000.6	9,766.2	103.2	102.2	-133.08	-12,782.5	-342.8	1,204.9	996.3	208.54	5.778
22,000.0	8,947.8	23,055.6	9,766.2	103.6	102.6	-133.08	-12,837.5	-343.3	1,204.8	995.5	209.37	5.755
22,040.0	8,947.9	23,095.6	9,766.3	103.9	102.9	-133.08	-12,877.5	-343.6	1,204.8	994.8	209.97	5.738
22,100.0	8,948.0	23,155.6	9,766.3	104.3	103.3	-133.08	-12,937.5	-344.2	1,204.8	993.9	210.88	5.713
22,135.0	8,948.0	23,190.6	9,766.3	104.6	103.6	-133.08	-12,972.5	-344.5	1,204.7	993.3	211.41	5.699
22,200.0	8,948.2	23,255.6	9,766.4	105.1	104.1	-133.07	-13,037.5	-345.1	1,204.7	992.3	212.39	5.672
22,230.0	8,948.2	23,285.6	9,766.4	105.3	104.3	-133.07	-13,067.5	-345.3	1,204.7	991.8	212.84	5.660
22,300.0	8,948.4	23,355.6	9,766.5	105.8	104.8	-133.07	-13,137.5	-345.9	1,204.6	990.7	213.90	5.632
22,325.0	8,948.4	23,380.6	9,766.5	106.0	105.0	-133.07	-13,162.5	-346.2	1,204.6	990.3	214.28	5.622
22,400.0	8,948.5	23,455.6	9,766.6	106.5	105.6	-133.07	-13,237.5	-346.8	1,204.5	989.1	215.41	5.592

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside								Warning
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)			
22,420.0	8,948.6	23,475.6	9,766.6	106.7	105.7	-133.07	-13,257.5	-347.0	1,204.5	988.8	215.72	5.584		
22,500.0	8,948.7	23,555.6	9,766.6	107.3	106.4	-133.06	-13,337.5	-347.7	1,204.5	987.5	216.93	5.552		
22,515.0	8,948.8	23,570.6	9,766.6	107.4	106.5	-133.06	-13,352.5	-347.8	1,204.4	987.3	217.15	5.547		
22,600.0	8,948.9	23,655.6	9,766.7	108.0	107.1	-133.06	-13,437.5	-348.6	1,204.4	985.9	218.44	5.514		
22,610.0	8,948.9	23,665.6	9,766.7	108.1	107.2	-133.06	-13,447.5	-348.7	1,204.4	985.8	218.59	5.510		
22,700.0	8,949.1	23,755.6	9,766.8	108.7	107.9	-133.05	-13,537.5	-349.5	1,204.3	984.4	219.95	5.475		
22,705.0	8,949.1	23,760.6	9,766.8	108.8	107.9	-133.05	-13,542.5	-349.5	1,204.3	984.3	220.03	5.473		
22,800.0	8,949.3	23,855.6	9,766.9	109.5	108.6	-133.05	-13,637.5	-350.4	1,204.2	982.8	221.47	5.438		
22,895.0	8,949.5	23,950.6	9,766.9	110.2	109.3	-133.05	-13,732.5	-351.2	1,204.2	981.3	222.91	5.402		
22,900.0	8,949.5	23,955.6	9,766.9	110.2	109.4	-133.05	-13,737.5	-351.3	1,204.2	981.2	222.98	5.400		
22,990.0	8,949.7	24,045.6	9,767.0	110.9	110.1	-133.04	-13,827.5	-352.1	1,204.1	979.8	224.35	5.367		
23,000.0	8,949.7	24,055.6	9,767.0	111.0	110.1	-133.04	-13,837.5	-352.2	1,204.1	979.6	224.50	5.363		
23,085.0	8,949.8	24,140.6	9,767.1	111.6	110.8	-133.04	-13,922.5	-352.9	1,204.0	978.2	225.79	5.333		
23,100.0	8,949.9	24,155.6	9,767.1	111.7	110.9	-133.04	-13,937.5	-353.0	1,204.0	978.0	226.01	5.327		
23,180.0	8,950.0	24,235.6	9,767.2	112.3	111.5	-133.04	-14,017.5	-353.7	1,204.0	976.7	227.23	5.298		
23,200.0	8,950.1	24,255.6	9,767.2	112.4	111.6	-133.03	-14,037.5	-353.9	1,203.9	976.4	227.53	5.291		
23,275.0	8,950.2	24,330.6	9,767.2	113.0	112.2	-133.03	-14,112.5	-354.6	1,203.9	975.2	228.67	5.265		
23,300.0	8,950.2	24,355.6	9,767.3	113.2	112.4	-133.03	-14,137.5	-354.8	1,203.9	974.8	229.05	5.256		
23,370.0	8,950.4	24,425.6	9,767.3	113.7	112.9	-133.03	-14,207.5	-355.4	1,203.8	973.7	230.11	5.232		
23,400.0	8,950.4	24,455.6	9,767.3	113.9	113.2	-133.03	-14,237.5	-355.7	1,203.8	973.2	230.56	5.221		
23,465.0	8,950.6	24,520.6	9,767.4	114.4	113.7	-133.02	-14,302.5	-356.3	1,203.8	972.2	231.55	5.199		
23,500.0	8,950.6	24,555.6	9,767.4	114.7	113.9	-133.02	-14,337.5	-356.6	1,203.7	971.6	232.08	5.187		
23,560.0	8,950.7	24,615.6	9,767.5	115.1	114.4	-133.02	-14,397.5	-357.1	1,203.7	970.7	232.99	5.166		
23,600.0	8,950.8	24,655.6	9,767.5	115.4	114.7	-133.02	-14,437.5	-357.5	1,203.7	970.1	233.60	5.153		
23,655.0	8,950.9	24,710.6	9,767.5	115.8	115.1	-133.02	-14,492.5	-358.0	1,203.6	969.2	234.43	5.134		
23,700.0	8,951.0	24,755.6	9,767.6	116.1	115.4	-133.02	-14,537.5	-358.4	1,203.6	968.5	235.12	5.119		
23,750.0	8,951.1	24,805.6	9,767.6	116.5	115.8	-133.01	-14,587.5	-358.8	1,203.5	967.7	235.88	5.102		
23,800.0	8,951.2	24,855.6	9,767.7	116.9	116.2	-133.01	-14,637.5	-359.2	1,203.5	966.9	236.63	5.086		
23,845.0	8,951.3	24,900.6	9,767.7	117.2	116.5	-133.01	-14,682.5	-359.6	1,203.5	966.2	237.32	5.071		
23,900.0	8,951.4	24,955.6	9,767.7	117.6	117.0	-133.01	-14,737.5	-360.1	1,203.4	965.3	238.15	5.053		
23,940.0	8,951.5	24,995.6	9,767.8	117.9	117.3	-133.01	-14,777.5	-360.5	1,203.4	964.6	238.76	5.040		
24,000.0	8,951.6	25,055.6	9,767.8	118.4	117.7	-133.00	-14,837.4	-361.0	1,203.4	963.7	239.67	5.021		
24,035.0	8,951.6	25,090.6	9,767.8	118.6	118.0	-133.00	-14,872.4	-361.3	1,203.3	963.1	240.20	5.010		
24,099.3	8,951.8	25,154.9	9,767.9	119.1	118.5	-133.00	-14,936.8	-361.9	1,203.3	962.1	241.18	4.989		
24,130.0	8,951.8	25,185.6	9,767.9	119.3	118.7	-133.00	-14,967.4	-362.2	1,203.3	961.6	241.65	4.979		
24,200.0	8,951.9	25,255.6	9,768.0	119.9	119.2	-133.00	-15,037.4	-362.8	1,203.2	960.5	242.71	4.957		
24,225.0	8,952.0	25,280.6	9,768.0	120.0	119.4	-133.00	-15,062.4	-363.0	1,203.2	960.1	243.09	4.950		
24,229.3	8,952.0	25,284.5	9,768.0	120.1	119.4	-133.00	-15,066.3	-363.1	1,203.2	960.0	243.15	4.948 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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	-0.15	150.0	-0.4	150.1					
95.0	95.0	90.7	90.7	3.0	3.0	-0.15	150.0	-0.4	150.0	144.0	6.03	24.856		
100.0	100.0	95.7	95.7	3.0	3.0	-0.15	150.0	-0.4	150.0	144.0	6.04	24.836		
190.0	190.0	185.7	185.7	3.1	3.1	-0.15	150.0	-0.4	150.0	143.7	6.25	23.996		
200.0	200.0	195.7	195.7	3.1	3.1	-0.15	150.0	-0.4	150.0	143.7	6.29	23.864		
285.0	285.0	280.7	280.7	3.3	3.2	-0.15	150.0	-0.4	150.0	143.5	6.50	23.092		
300.0	300.0	295.7	295.7	3.3	3.3	-0.15	150.0	-0.4	150.0	143.5	6.54	22.945		
380.0	380.0	375.7	375.7	3.4	3.4	-0.15	150.0	-0.4	150.0	143.3	6.73	22.278		
400.0	400.0	395.7	395.7	3.4	3.4	-0.15	150.0	-0.4	150.0	143.2	6.79	22.105		
475.0	475.0	470.7	470.7	3.5	3.5	-0.15	150.0	-0.4	150.0	143.0	6.97	21.526		
500.0	500.0	495.7	495.7	3.5	3.5	-0.15	150.0	-0.4	150.0	143.0	7.03	21.330		
570.0	570.0	565.7	565.7	3.6	3.6	-0.15	150.0	-0.4	150.0	142.8	7.20	20.827		
600.0	600.0	595.7	595.7	3.6	3.6	-0.15	150.0	-0.4	150.0	142.7	7.28	20.611		
665.0	665.0	660.7	660.7	3.7	3.7	-0.15	150.0	-0.4	150.0	142.6	7.43	20.176		
700.0	700.0	695.7	695.7	3.8	3.8	-0.15	150.0	-0.4	150.0	142.5	7.52	19.943		
760.0	760.0	755.7	755.7	3.8	3.8	-0.15	150.0	-0.4	150.0	142.3	7.67	19.568		
800.0	800.0	795.7	795.7	3.9	3.9	-0.15	150.0	-0.4	150.0	142.2	7.76	19.320		
855.0	855.0	850.7	850.7	4.0	3.9	-0.15	150.0	-0.4	150.0	142.1	7.90	18.998		
900.0	900.0	895.7	895.7	4.0	4.0	-0.15	150.0	-0.4	150.0	142.0	8.01	18.737		
950.0	950.0	945.7	945.7	4.1	4.1	-0.15	150.0	-0.4	150.0	141.9	8.12	18.462		
1,000.0	1,000.0	995.7	995.7	4.1	4.1	-0.15	150.0	-0.4	150.0	141.8	8.25	18.191		
1,045.0	1,045.0	1,040.7	1,040.7	4.2	4.2	-0.15	150.0	-0.4	150.0	141.6	8.35	17.958		
1,100.0	1,100.0	1,095.7	1,095.7	4.2	4.2	-0.15	150.0	-0.4	150.0	141.5	8.49	17.678		
1,140.0	1,140.0	1,135.7	1,135.7	4.3	4.3	-0.15	150.0	-0.4	150.0	141.4	8.58	17.482		
1,200.0	1,200.0	1,195.7	1,195.7	4.4	4.4	-0.15	150.0	-0.4	150.0	141.3	8.72	17.194		
1,235.0	1,235.0	1,230.7	1,230.7	4.4	4.4	-0.15	150.0	-0.4	150.0	141.2	8.81	17.032		
1,300.0	1,300.0	1,295.7	1,295.7	4.5	4.5	-0.15	150.0	-0.4	150.0	141.0	8.96	16.737		
1,330.0	1,330.0	1,325.7	1,325.7	4.5	4.5	-0.15	150.0	-0.4	150.0	141.0	9.03	16.606		
1,400.0	1,400.0	1,395.7	1,395.7	4.6	4.6	-0.15	150.0	-0.4	150.0	140.8	9.20	16.306		
1,425.0	1,425.0	1,420.7	1,420.7	4.6	4.6	-0.15	150.0	-0.4	150.0	140.7	9.26	16.202		
1,500.0	1,500.0	1,495.7	1,495.7	4.7	4.7	-0.15	150.0	-0.4	150.0	140.6	9.44	15.897		
1,519.3	1,519.3	1,514.7	1,514.7	4.7	4.7	72.04	150.0	-0.4	150.0	140.5	9.48	15.826 CC		
1,520.0	1,520.0	1,515.4	1,515.4	4.7	4.7	72.04	150.0	-0.4	150.0	140.5	9.48	15.824		
1,600.0	1,600.0	1,593.7	1,593.7	4.8	4.8	72.12	150.6	-1.8	150.1	140.4	9.65	15.550		
1,615.0	1,615.0	1,608.4	1,608.4	4.9	4.9	72.14	150.8	-2.3	150.1	140.4	9.70	15.481 ES		
1,700.0	1,699.8	1,691.6	1,691.5	5.0	5.0	72.27	152.6	-6.3	150.5	140.5	9.97	15.089		
1,710.0	1,709.8	1,701.4	1,701.3	5.0	5.0	72.29	152.9	-6.9	150.6	140.6	10.01	15.046		
1,800.0	1,799.5	1,789.6	1,789.1	5.3	5.3	72.48	155.9	-13.8	151.2	140.9	10.30	14.685		
1,805.0	1,804.4	1,794.5	1,794.0	5.3	5.3	72.50	156.1	-14.2	151.3	140.9	10.31	14.667		
1,900.0	1,898.7	1,887.5	1,886.3	5.6	5.5	72.76	160.5	-24.4	152.2	141.6	10.62	14.335		
1,995.0	1,992.5	1,980.6	1,978.3	5.9	5.8	73.08	166.2	-37.2	153.5	142.6	10.93	14.042		
2,000.0	1,997.5	1,985.5	1,983.2	5.9	5.9	73.10	166.5	-38.0	153.6	142.6	10.95	14.028		
2,090.0	2,085.8	2,073.6	2,069.8	6.2	6.2	73.45	173.1	-52.8	155.0	143.8	11.25	13.782		
2,100.0	2,095.6	2,083.4	2,079.4	6.2	6.2	73.49	173.8	-54.6	155.2	143.9	11.28	13.756		
2,185.0	2,178.5	2,166.7	2,160.7	6.5	6.5	73.86	181.1	-71.1	156.9	145.3	11.58	13.547		
2,199.8	2,192.9	2,181.2	2,174.8	6.6	6.5	73.93	182.5	-74.2	157.2	145.6	11.63	13.514		
2,280.0	2,270.7	2,261.0	2,252.2	6.8	6.8	74.18	190.2	-91.8	159.1	147.1	11.92	13.340		
2,300.0	2,290.1	2,281.0	2,271.6	6.9	6.9	74.24	192.2	-96.2	159.5	147.5	12.00	13.298		
2,375.0	2,362.9	2,356.0	2,344.4	7.2	7.1	74.45	199.5	-112.8	161.3	149.0	12.28	13.134		
2,400.0	2,387.1	2,381.0	2,368.6	7.2	7.2	74.52	201.9	-118.4	161.9	149.5	12.38	13.080		
2,470.0	2,455.0	2,450.9	2,436.5	7.5	7.4	74.71	208.7	-133.9	163.6	150.9	12.66	12.926		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
2,500.0	2,484.1	2,480.9	2,465.6	7.6	7.5	74.80	211.6	-140.5	164.3	151.5	12.77	12.862	
2,565.0	2,547.2	2,545.9	2,528.7	7.8	7.8	74.97	218.0	-154.9	165.9	152.8	13.04	12.720	
2,600.0	2,581.2	2,580.9	2,562.6	7.9	7.9	75.06	221.4	-162.6	166.7	153.5	13.18	12.646	
2,660.0	2,639.4	2,640.9	2,620.8	8.2	8.1	75.22	227.2	-175.9	168.1	154.7	13.43	12.517	
2,700.0	2,678.2	2,680.9	2,659.6	8.3	8.3	75.32	231.1	-184.8	169.1	155.5	13.60	12.433	
2,755.0	2,731.6	2,735.8	2,713.0	8.5	8.5	75.46	236.5	-196.9	170.4	156.6	13.83	12.318	
2,800.0	2,775.2	2,780.8	2,756.6	8.7	8.6	75.57	240.9	-206.9	171.5	157.4	14.03	12.225	
2,850.0	2,823.8	2,830.8	2,805.1	8.9	8.8	75.69	245.7	-218.0	172.7	158.4	14.24	12.123	
2,900.0	2,872.3	2,880.8	2,853.6	9.1	9.0	75.81	250.6	-229.0	173.9	159.4	14.46	12.023	
2,945.0	2,915.9	2,925.8	2,897.3	9.3	9.2	75.92	255.0	-239.0	174.9	160.3	14.66	11.934	
3,000.0	2,969.3	2,980.8	2,950.6	9.5	9.4	76.05	260.3	-251.2	176.3	161.4	14.90	11.828	
3,040.0	3,008.1	3,020.8	2,989.4	9.7	9.6	76.14	264.2	-260.0	177.2	162.1	15.08	11.751	
3,100.0	3,066.3	3,080.7	3,047.6	9.9	9.9	76.28	270.1	-273.3	178.7	163.3	15.35	11.638	
3,135.0	3,100.3	3,115.7	3,081.6	10.1	10.0	76.36	273.5	-281.1	179.5	164.0	15.51	11.574	
3,200.0	3,163.4	3,180.7	3,144.6	10.3	10.3	76.50	279.8	-295.5	181.1	165.3	15.80	11.456	
3,230.0	3,192.5	3,210.7	3,173.7	10.5	10.4	76.57	282.7	-302.1	181.8	165.8	15.94	11.402	
3,300.0	3,260.4	3,280.7	3,241.6	10.8	10.7	76.72	289.5	-317.6	183.5	167.2	16.26	11.280	
3,325.0	3,284.7	3,305.7	3,265.9	10.9	10.8	76.78	292.0	-323.1	184.1	167.7	16.38	11.237	
3,400.0	3,357.4	3,380.6	3,338.6	11.2	11.1	76.93	299.3	-339.7	185.9	169.1	16.73	11.111	
3,420.0	3,376.8	3,400.6	3,358.0	11.3	11.2	76.98	301.2	-344.2	186.4	169.5	16.82	11.078	
3,500.0	3,454.5	3,480.6	3,435.6	11.6	11.6	77.14	309.0	-361.9	188.3	171.1	17.20	10.949	
3,515.0	3,469.0	3,495.6	3,450.2	11.7	11.6	77.17	310.5	-365.2	188.6	171.4	17.27	10.925	
3,600.0	3,551.5	3,580.6	3,532.6	12.1	12.0	77.34	318.8	-384.0	190.7	173.0	17.67	10.793	
3,610.0	3,561.2	3,590.6	3,542.3	12.1	12.0	77.36	319.7	-386.2	190.9	173.2	17.71	10.778	
3,700.0	3,648.5	3,680.5	3,629.6	12.5	12.4	77.54	328.5	-406.1	193.1	175.0	18.14	10.644	
3,705.0	3,653.4	3,685.5	3,634.5	12.5	12.5	77.55	329.0	-407.2	193.2	175.1	18.17	10.637	
3,800.0	3,745.6	3,780.5	3,726.6	13.0	12.9	77.73	338.2	-428.3	195.5	176.9	18.62	10.501	
3,895.0	3,837.7	3,875.5	3,818.8	13.4	13.3	77.91	347.5	-449.3	197.8	178.7	19.08	10.370	
3,900.0	3,842.6	3,880.5	3,823.6	13.4	13.3	77.92	348.0	-450.4	197.9	178.8	19.10	10.363	
3,990.0	3,929.9	3,970.5	3,910.9	13.8	13.8	78.09	356.7	-470.3	200.1	180.6	19.53	10.245	
4,000.0	3,939.6	3,980.5	3,920.6	13.9	13.8	78.10	357.7	-472.5	200.4	180.8	19.58	10.232	
4,085.0	4,022.1	4,065.4	4,003.1	14.3	14.2	78.26	366.0	-491.4	202.4	182.4	19.99	10.124	
4,100.0	4,036.6	4,080.4	4,017.6	14.3	14.3	78.28	367.5	-494.7	202.8	182.7	20.07	10.105	
4,180.0	4,114.3	4,160.4	4,095.2	14.7	14.6	78.42	375.3	-512.4	204.7	184.3	20.46	10.008	
4,200.0	4,133.7	4,180.4	4,114.6	14.8	14.7	78.46	377.2	-516.8	205.2	184.7	20.55	9.984	
4,275.0	4,206.5	4,255.4	4,187.4	15.1	15.1	78.58	384.5	-533.4	207.0	186.1	20.92	9.896	
4,300.0	4,230.7	4,280.4	4,211.6	15.3	15.2	78.63	386.9	-539.0	207.6	186.6	21.04	9.868	
4,370.0	4,298.6	4,350.3	4,279.5	15.6	15.5	78.74	393.8	-554.5	209.3	188.0	21.39	9.789	
4,400.0	4,327.7	4,380.3	4,308.6	15.7	15.6	78.79	396.7	-561.1	210.1	188.5	21.53	9.756	
4,465.0	4,390.8	4,445.3	4,371.7	16.0	15.9	78.90	403.0	-575.5	211.6	189.8	21.85	9.686	
4,500.0	4,424.8	4,480.3	4,405.6	16.2	16.1	78.96	406.4	-583.2	212.5	190.5	22.02	9.649	
4,560.0	4,483.0	4,540.3	4,463.8	16.5	16.4	79.05	412.3	-596.5	214.0	191.6	22.32	9.586	
4,600.0	4,521.8	4,580.3	4,502.6	16.6	16.6	79.11	416.2	-605.4	214.9	192.4	22.52	9.546	
4,655.0	4,575.2	4,635.2	4,556.0	16.9	16.8	79.20	421.5	-617.5	216.3	193.5	22.79	9.491	
4,700.0	4,618.8	4,680.2	4,599.6	17.1	17.0	79.27	425.9	-627.5	217.4	194.4	23.01	9.446	
4,750.0	4,667.4	4,730.2	4,648.1	17.3	17.3	79.35	430.8	-638.6	218.6	195.3	23.26	9.398	
4,800.0	4,715.9	4,780.2	4,696.6	17.6	17.5	79.42	435.6	-649.6	219.8	196.3	23.51	9.351	
4,845.0	4,759.5	4,825.2	4,740.3	17.8	17.7	79.49	440.0	-659.6	220.9	197.2	23.73	9.310	
4,900.0	4,812.9	4,880.2	4,793.6	18.0	18.0	79.57	445.4	-671.8	222.2	198.2	24.00	9.260	
4,940.0	4,851.7	4,920.2	4,832.4	18.2	18.2	79.63	449.3	-680.6	223.2	199.0	24.20	9.224	
5,000.0	4,909.9	4,980.1	4,890.6	18.5	18.4	79.72	455.1	-693.9	224.7	200.2	24.50	9.171	

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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
5,035.0	4,943.9	5,015.1	4,924.6	18.7	18.6	79.77	458.5	-701.7	225.5	200.9	24.67	9.141	
5,100.0	5,007.0	5,080.1	4,987.6	19.0	18.9	79.86	464.9	-716.0	227.1	202.1	25.00	9.086	
5,130.0	5,036.1	5,110.1	5,016.7	19.1	19.0	79.90	467.8	-722.7	227.8	202.7	25.14	9.062	
5,200.0	5,104.0	5,180.1	5,084.6	19.5	19.4	80.00	474.6	-738.2	229.6	204.1	25.49	9.005	
5,225.0	5,128.3	5,205.1	5,108.9	19.6	19.5	80.03	477.0	-743.7	230.2	204.6	25.62	8.985	
5,300.0	5,201.0	5,280.0	5,181.6	19.9	19.9	80.13	484.3	-760.3	232.0	206.0	25.99	8.926	
5,320.0	5,220.4	5,300.0	5,201.0	20.0	19.9	80.16	486.3	-764.7	232.5	206.4	26.09	8.910	
5,400.0	5,298.1	5,380.0	5,278.6	20.4	20.3	80.27	494.1	-782.5	234.4	208.0	26.49	8.850	
5,415.0	5,312.6	5,395.0	5,293.2	20.5	20.4	80.29	495.5	-785.8	234.8	208.2	26.57	8.839	
5,500.0	5,395.1	5,480.0	5,375.6	20.9	20.8	80.40	503.8	-804.6	236.9	209.9	26.99	8.776	
5,510.0	5,404.8	5,490.0	5,385.3	20.9	20.8	80.41	504.8	-806.8	237.1	210.1	27.04	8.769	
5,600.0	5,492.1	5,580.0	5,472.6	21.4	21.3	80.53	513.5	-826.7	239.3	211.8	27.49	8.705	
5,605.0	5,497.0	5,584.9	5,477.5	21.4	21.3	80.53	514.0	-827.8	239.5	211.9	27.52	8.702	
5,700.0	5,589.1	5,679.9	5,569.6	21.8	21.8	80.65	523.3	-848.9	241.8	213.8	27.99	8.637	
5,795.0	5,681.3	5,774.9	5,661.8	22.3	22.2	80.77	532.5	-869.9	244.1	215.6	28.47	8.574	
5,800.0	5,686.2	5,779.9	5,666.6	22.3	22.2	80.77	533.0	-871.0	244.2	215.7	28.50	8.571	
5,890.0	5,773.5	5,869.9	5,753.9	22.8	22.7	80.88	541.8	-890.9	246.4	217.5	28.95	8.513	
5,900.0	5,783.2	5,879.9	5,763.6	22.8	22.7	80.89	542.8	-893.1	246.7	217.7	29.00	8.507	
5,985.0	5,865.7	5,964.8	5,846.1	23.2	23.1	80.99	551.0	-912.0	248.8	219.3	29.42	8.454	
6,000.0	5,880.2	5,979.8	5,860.6	23.3	23.2	81.01	552.5	-915.3	249.1	219.6	29.50	8.445	
6,080.0	5,957.9	6,059.8	5,938.2	23.7	23.6	81.11	560.3	-933.0	251.1	221.2	29.90	8.397	
6,100.0	5,977.3	6,079.8	5,957.6	23.8	23.7	81.13	562.2	-937.4	251.6	221.6	30.00	8.385	
6,175.0	6,050.0	6,154.8	6,030.4	24.1	24.0	81.21	569.5	-954.0	253.4	223.0	30.38	8.342	
6,200.0	6,074.3	6,179.8	6,054.6	24.2	24.1	81.24	572.0	-959.5	254.0	223.5	30.51	8.328	
6,270.0	6,142.2	6,249.7	6,122.5	24.6	24.5	81.32	578.8	-975.0	255.8	224.9	30.86	8.288	
6,299.8	6,171.1	6,279.5	6,151.4	24.7	24.6	81.35	581.7	-981.6	256.5	225.5	31.01	8.272	
6,365.0	6,234.6	6,344.7	6,214.6	25.0	24.9	81.30	588.0	-996.1	258.2	226.8	31.36	8.233	
6,400.0	6,268.8	6,379.7	6,248.6	25.2	25.1	81.13	591.5	-1,003.8	259.2	227.6	31.58	8.209	
6,460.0	6,327.6	6,439.6	6,306.7	25.5	25.4	80.65	597.3	-1,017.1	261.1	229.1	31.97	8.167	
6,500.0	6,366.9	6,479.5	6,345.5	25.7	25.6	80.18	601.2	-1,025.9	262.5	230.2	32.27	8.134	
6,555.0	6,421.2	6,535.8	6,400.2	25.9	25.8	79.45	606.4	-1,037.9	264.5	231.8	32.70	8.089	
6,600.0	6,465.7	6,581.9	6,445.3	26.1	26.1	78.85	610.4	-1,047.0	266.0	233.0	33.05	8.050	
6,650.0	6,515.3	6,633.2	6,495.5	26.4	26.3	78.20	614.5	-1,056.3	267.7	234.3	33.43	8.009	
6,700.0	6,564.9	6,684.6	6,546.1	26.6	26.6	77.56	618.3	-1,064.8	269.3	235.5	33.81	7.967	
6,745.0	6,609.7	6,730.9	6,591.7	26.8	26.8	76.98	621.3	-1,071.7	270.7	236.6	34.13	7.932	
6,800.0	6,664.6	6,787.5	6,647.8	27.0	27.0	76.28	624.6	-1,079.3	272.4	237.9	34.53	7.889	
6,840.0	6,704.5	6,828.8	6,688.7	27.1	27.2	75.78	626.8	-1,084.1	273.6	238.8	34.81	7.860	
6,900.0	6,764.4	6,890.7	6,750.2	27.3	27.5	75.02	629.6	-1,090.4	275.2	240.0	35.22	7.815	
6,935.0	6,799.4	6,926.9	6,786.3	27.4	27.6	74.59	630.9	-1,093.6	276.2	240.7	35.45	7.791	
6,999.6	6,864.0	6,993.8	6,852.9	27.5	27.9	1.60	633.0	-1,098.2	277.8	241.9	35.87	7.745	
7,030.0	6,894.4	7,025.3	6,884.4	27.5	28.0	1.25	633.7	-1,099.9	278.5	242.4	36.03	7.729	
7,100.0	6,964.4	7,098.0	6,957.0	27.5	28.2	0.69	634.9	-1,102.7	279.6	243.3	36.31	7.699	
7,125.0	6,989.4	7,124.0	6,983.0	27.5	28.3	0.57	635.2	-1,103.2	279.8	243.4	36.37	7.693	
7,200.0	7,064.4	7,201.1	7,060.1	27.6	28.4	0.47	635.4	-1,103.7	280.0	243.6	36.46	7.680	
7,220.0	7,084.4	7,221.1	7,080.1	27.6	28.4	0.47	635.4	-1,103.7	280.0	243.5	36.48	7.676	
7,300.0	7,164.4	7,301.1	7,160.1	27.6	28.4	0.47	635.4	-1,103.7	280.0	243.4	36.57	7.658	
7,315.0	7,179.4	7,316.1	7,175.1	27.6	28.4	0.47	635.4	-1,103.7	280.0	243.4	36.58	7.654	
7,400.0	7,264.4	7,401.1	7,260.1	27.6	28.4	0.47	635.4	-1,103.7	280.0	243.3	36.67	7.635	
7,410.0	7,274.4	7,411.1	7,270.1	27.6	28.4	0.47	635.4	-1,103.7	280.0	243.3	36.69	7.633	
7,500.0	7,364.4	7,501.1	7,360.1	27.7	28.5	0.47	635.4	-1,103.7	280.0	243.2	36.78	7.612	
7,505.0	7,369.4	7,506.1	7,365.1	27.7	28.5	0.47	635.4	-1,103.7	280.0	243.2	36.79	7.611	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
7,600.0	7,464.4	7,601.1	7,460.1	27.7	28.5	0.47	635.4	-1,103.7	280.0	243.1	36.89	7.590		
7,695.0	7,559.4	7,696.1	7,555.1	27.7	28.5	0.47	635.4	-1,103.7	280.0	243.0	37.00	7.569		
7,700.0	7,564.4	7,701.1	7,560.1	27.7	28.5	0.47	635.4	-1,103.7	280.0	243.0	37.00	7.567		
7,790.0	7,654.4	7,791.1	7,650.1	27.8	28.6	0.47	635.4	-1,103.7	280.0	242.9	37.10	7.547		
7,800.0	7,664.4	7,801.1	7,660.1	27.8	28.6	0.47	635.4	-1,103.7	280.0	242.9	37.11	7.545		
7,885.0	7,749.4	7,886.1	7,745.1	27.8	28.6	0.47	635.4	-1,103.7	280.0	242.8	37.21	7.526		
7,900.0	7,764.4	7,901.1	7,760.1	27.8	28.6	0.47	635.4	-1,103.7	280.0	242.8	37.22	7.523		
7,980.0	7,844.4	7,981.1	7,840.1	27.8	28.6	0.47	635.4	-1,103.7	280.0	242.7	37.31	7.505		
8,000.0	7,864.4	8,001.1	7,860.1	27.8	28.6	0.47	635.4	-1,103.7	280.0	242.7	37.33	7.500		
8,075.0	7,939.4	8,076.1	7,935.1	27.8	28.7	0.47	635.4	-1,103.7	280.0	242.6	37.42	7.484		
8,100.0	7,964.4	8,101.1	7,960.1	27.9	28.7	0.47	635.4	-1,103.7	280.0	242.6	37.44	7.478		
8,170.0	8,034.4	8,171.1	8,030.1	27.9	28.7	0.47	635.4	-1,103.7	280.0	242.5	37.52	7.463		
8,200.0	8,064.4	8,201.1	8,060.1	27.9	28.7	0.47	635.4	-1,103.7	280.0	242.5	37.56	7.456		
8,265.0	8,129.4	8,266.1	8,125.1	27.9	28.7	0.47	635.4	-1,103.7	280.0	242.4	37.63	7.441		
8,300.0	8,164.4	8,301.1	8,160.1	27.9	28.7	0.47	635.4	-1,103.7	280.0	242.3	37.67	7.434		
8,360.0	8,224.4	8,361.1	8,220.1	27.9	28.8	0.47	635.4	-1,103.7	280.0	242.3	37.73	7.420		
8,400.0	8,264.4	8,401.1	8,260.1	28.0	28.8	0.47	635.4	-1,103.7	280.0	242.2	37.78	7.412		
8,455.0	8,319.4	8,456.1	8,315.1	28.0	28.8	0.47	635.4	-1,103.7	280.0	242.2	37.83	7.401		
8,486.6	8,351.0	8,487.7	8,346.7	28.0	28.8	0.47	635.4	-1,103.7	280.0	242.1	37.86	7.395		
8,500.0	8,364.4	8,501.1	8,360.1	28.0	28.8	179.96	635.4	-1,103.7	280.2	242.3	37.87	7.398		
8,550.0	8,414.3	8,551.0	8,410.0	28.0	28.8	179.96	635.4	-1,103.7	283.5	245.5	37.97	7.468		
8,600.0	8,463.7	8,600.4	8,459.4	28.0	28.8	179.96	635.4	-1,103.7	291.2	253.1	38.06	7.650		
8,645.0	8,507.4	8,644.1	8,503.1	28.0	28.8	179.96	635.4	-1,103.7	301.8	263.6	38.15	7.910		
8,650.0	8,512.2	8,648.9	8,507.9	28.0	28.8	179.96	635.4	-1,103.7	303.1	265.0	38.16	7.944		
8,700.0	8,559.5	8,696.2	8,555.2	28.0	28.9	179.96	635.4	-1,103.7	319.3	281.0	38.26	8.345		
8,740.0	8,596.2	8,732.9	8,591.9	28.0	28.9	179.96	635.4	-1,103.7	335.1	296.8	38.34	8.741		
8,750.0	8,605.2	8,741.9	8,600.9	28.0	28.9	179.96	635.4	-1,103.7	339.5	301.1	38.36	8.850		
8,800.0	8,649.0	8,785.7	8,644.7	28.0	28.9	179.97	635.4	-1,103.7	363.6	325.1	38.46	9.455		
8,835.0	8,678.3	8,815.0	8,674.0	28.0	28.9	179.97	635.4	-1,103.7	382.7	344.2	38.52	9.934		
8,850.0	8,690.5	8,827.2	8,686.2	28.1	28.9	179.97	635.4	-1,103.7	391.4	352.9	38.55	10.153		
8,900.0	8,729.5	8,866.2	8,725.2	28.1	28.9	179.97	635.4	-1,103.7	422.8	384.1	38.64	10.940		
8,930.0	8,751.5	8,888.2	8,747.2	28.1	28.9	179.97	635.4	-1,103.7	443.2	404.5	38.70	11.452		
8,950.0	8,765.5	8,902.2	8,761.2	28.1	28.9	179.97	635.4	-1,103.7	457.4	418.7	38.73	11.809		
9,000.0	8,798.4	8,935.1	8,794.1	28.1	28.9	179.96	635.4	-1,103.7	495.0	456.2	38.81	12.753		
9,025.0	8,813.6	8,950.3	8,809.3	28.1	29.0	179.96	635.4	-1,103.7	514.9	476.0	38.85	13.252		
9,050.0	8,827.9	8,964.6	8,823.6	28.1	29.0	179.96	635.4	-1,103.7	535.4	496.5	38.89	13.766		
9,100.0	8,853.8	8,990.5	8,849.5	28.2	29.0	179.96	635.4	-1,103.7	578.1	539.2	38.96	14.840		
9,120.0	8,863.1	8,999.8	8,858.8	28.2	29.0	179.96	635.4	-1,103.7	595.8	556.9	38.98	15.286		
9,150.0	8,875.8	9,012.5	8,871.5	28.2	29.0	179.96	635.4	-1,103.7	623.0	584.0	39.02	15.968		
9,200.0	8,893.9	9,030.6	8,899.6	28.2	29.0	179.95	635.4	-1,103.7	669.6	630.5	39.06	17.141		
9,215.0	8,898.5	9,035.2	8,894.2	28.3	29.0	179.95	635.4	-1,103.7	683.9	644.8	39.08	17.501		
9,250.0	8,907.8	9,044.5	8,903.5	28.3	29.0	179.94	635.4	-1,103.7	717.6	678.5	39.10	18.352		
9,300.0	8,917.5	9,054.2	8,913.2	28.3	29.0	179.91	635.4	-1,103.7	766.7	727.5	39.13	19.593		
9,310.0	8,918.9	9,055.6	8,914.6	28.3	29.0	179.90	635.4	-1,103.7	776.6	737.4	39.14	19.843		
9,350.0	8,922.8	9,059.5	8,918.5	28.4	29.0	179.79	635.4	-1,103.7	816.4	777.2	39.15	20.852		
9,385.6	8,924.0	10,486.5	9,740.1	28.4	29.9	179.99	-216.0	-1,111.3	820.4	781.9	38.58	21.267		
9,400.0	8,924.0	10,501.0	9,740.2	28.4	29.9	179.99	-230.5	-1,111.4	820.4	781.8	38.64	21.234		
9,405.0	8,924.0	10,506.0	9,740.2	28.5	29.9	179.99	-235.5	-1,111.4	820.4	781.8	38.66	21.220		
9,500.0	8,924.2	10,601.0	9,740.2	28.6	30.1	179.99	-330.5	-1,112.3	820.3	781.2	39.11	20.974		
9,595.0	8,924.4	10,696.0	9,740.3	28.7	30.2	179.99	-425.5	-1,113.1	820.2	780.6	39.61	20.706		
9,600.0	8,924.4	10,701.0	9,740.3	28.7	30.2	179.99	-430.5	-1,113.2	820.2	780.5	39.64	20.692		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
9,690.0	8,924.6	10,791.0	9,740.3	28.9	30.4	179.99	-520.4	-1,114.0	820.0	779.9	40.16	20.419
9,700.0	8,924.6	10,801.0	9,740.3	28.9	30.4	179.99	-530.4	-1,114.1	820.0	779.8	40.22	20.389
9,785.0	8,924.8	10,886.0	9,740.4	29.0	30.6	179.99	-615.4	-1,114.8	819.9	779.1	40.76	20.116
9,800.0	8,924.8	10,901.0	9,740.4	29.1	30.6	179.99	-630.4	-1,114.9	819.9	779.0	40.85	20.069
9,880.0	8,924.9	10,981.0	9,740.4	29.2	30.8	179.99	-710.4	-1,115.6	819.8	778.4	41.40	19.801
9,900.0	8,925.0	11,001.0	9,740.4	29.3	30.8	179.99	-730.4	-1,115.8	819.7	778.2	41.54	19.735
9,975.0	8,925.1	11,076.0	9,740.5	29.4	31.0	179.99	-805.4	-1,116.5	819.6	777.6	42.09	19.475
10,000.0	8,925.2	11,101.0	9,740.5	29.5	31.1	179.99	-830.4	-1,116.7	819.6	777.3	42.27	19.390
10,070.0	8,925.3	11,171.0	9,740.5	29.7	31.2	179.99	-900.4	-1,117.3	819.5	776.7	42.81	19.141
10,100.0	8,925.3	11,201.0	9,740.5	29.7	31.3	179.99	-930.4	-1,117.6	819.5	776.4	43.05	19.037
10,165.0	8,925.5	11,266.0	9,740.6	29.9	31.5	179.99	-995.4	-1,118.2	819.4	775.8	43.58	18.802
10,200.0	8,925.5	11,301.0	9,740.6	30.0	31.6	179.99	-1,030.4	-1,118.5	819.3	775.5	43.87	18.678
10,260.0	8,925.6	11,361.0	9,740.6	30.1	31.7	179.99	-1,090.4	-1,119.0	819.3	774.9	44.38	18.459
10,300.0	8,925.7	11,401.0	9,740.6	30.2	31.8	179.99	-1,130.4	-1,119.4	819.2	774.5	44.73	18.315
10,355.0	8,925.8	11,456.0	9,740.7	30.4	32.0	179.99	-1,185.4	-1,119.9	819.1	773.9	45.22	18.114
10,400.0	8,925.9	11,501.0	9,740.7	30.5	32.1	179.99	-1,230.4	-1,120.3	819.1	773.4	45.63	17.952
10,450.0	8,926.0	11,551.0	9,740.7	30.7	32.3	179.99	-1,280.4	-1,120.7	819.0	772.9	46.09	17.769
10,500.0	8,926.1	11,601.0	9,740.7	30.8	32.4	179.99	-1,330.4	-1,121.2	818.9	772.4	46.56	17.589
10,545.0	8,926.2	11,646.0	9,740.8	30.9	32.6	179.99	-1,375.4	-1,121.6	818.9	771.9	47.00	17.425
10,600.0	8,926.3	11,701.0	9,740.8	31.1	32.8	179.99	-1,430.4	-1,122.0	818.8	771.3	47.53	17.228
10,640.0	8,926.4	11,741.0	9,740.8	31.2	32.9	179.99	-1,470.4	-1,122.4	818.7	770.8	47.93	17.083
10,700.0	8,926.5	11,801.0	9,740.8	31.4	33.1	179.99	-1,530.4	-1,122.9	818.7	770.1	48.53	16.870
10,735.0	8,926.5	11,836.0	9,740.9	31.5	33.2	179.99	-1,565.4	-1,123.2	818.6	769.7	48.89	16.745
10,800.0	8,926.7	11,901.0	9,740.9	31.8	33.4	179.99	-1,630.4	-1,123.8	818.5	769.0	49.56	16.517
10,830.0	8,926.7	11,931.0	9,740.9	31.9	33.5	179.99	-1,660.4	-1,124.1	818.5	768.6	49.87	16.412
10,900.0	8,926.9	12,001.0	9,740.9	32.1	33.8	179.99	-1,730.4	-1,124.7	818.4	767.8	50.61	16.170
10,925.0	8,926.9	12,026.0	9,741.0	32.2	33.9	179.99	-1,755.4	-1,124.9	818.4	767.5	50.88	16.083
11,000.0	8,927.0	12,101.0	9,741.0	32.5	34.1	179.99	-1,830.4	-1,125.6	818.3	766.6	51.70	15.828
11,020.0	8,927.1	12,121.0	9,741.0	32.5	34.2	179.99	-1,850.4	-1,125.8	818.2	766.3	51.92	15.760
11,100.0	8,927.2	12,201.0	9,741.1	32.8	34.5	179.99	-1,930.4	-1,126.5	818.1	765.3	52.80	15.494
11,115.0	8,927.3	12,216.0	9,741.1	32.9	34.6	179.99	-1,945.4	-1,126.6	818.1	765.1	52.97	15.444
11,200.0	8,927.4	12,301.0	9,741.1	33.2	34.9	179.99	-2,030.4	-1,127.4	818.0	764.1	53.93	15.166
11,210.0	8,927.4	12,311.0	9,741.1	33.3	34.9	179.99	-2,040.4	-1,127.5	818.0	763.9	54.05	15.134
11,300.0	8,927.6	12,401.0	9,741.2	33.6	35.3	179.99	-2,130.4	-1,128.3	817.8	762.8	55.09	14.847
11,305.0	8,927.6	12,406.0	9,741.2	33.6	35.3	179.99	-2,135.4	-1,128.3	817.8	762.7	55.14	14.831
11,400.0	8,927.8	12,501.0	9,741.2	34.0	35.7	179.99	-2,230.4	-1,129.1	817.7	761.5	56.26	14.535
11,495.0	8,928.0	12,596.0	9,741.3	34.4	36.1	179.99	-2,325.4	-1,130.0	817.6	760.2	57.39	14.246
11,500.0	8,928.0	12,601.0	9,741.3	34.5	36.1	179.99	-2,330.4	-1,130.0	817.6	760.1	57.45	14.231
11,590.0	8,928.2	12,691.0	9,741.3	34.8	36.5	179.99	-2,420.4	-1,130.8	817.5	758.9	58.54	13.965
11,600.0	8,928.2	12,701.0	9,741.3	34.9	36.6	179.99	-2,430.4	-1,130.9	817.4	758.8	58.66	13.935
11,685.0	8,928.3	12,786.0	9,741.4	35.3	37.0	179.99	-2,515.4	-1,131.7	817.3	757.6	59.70	13.690
11,700.0	8,928.4	12,801.0	9,741.4	35.3	37.0	179.99	-2,530.4	-1,131.8	817.3	757.4	59.88	13.648
11,780.0	8,928.5	12,881.0	9,741.4	35.7	37.4	179.99	-2,610.4	-1,132.5	817.2	756.3	60.88	13.423
11,800.0	8,928.6	12,901.0	9,741.4	35.8	37.5	179.99	-2,630.4	-1,132.7	817.2	756.0	61.13	13.368
11,875.0	8,928.7	12,976.0	9,741.5	36.1	37.8	179.99	-2,705.4	-1,133.4	817.1	755.0	62.07	13.164
11,900.0	8,928.7	13,001.0	9,741.5	36.2	37.9	179.99	-2,730.4	-1,133.6	817.0	754.7	62.38	13.097
11,970.0	8,928.9	13,071.0	9,741.5	36.6	38.3	179.99	-2,800.4	-1,134.2	816.9	753.7	63.27	12.911
12,000.0	8,928.9	13,101.0	9,741.5	36.7	38.4	179.99	-2,830.4	-1,134.5	816.9	753.2	63.65	12.833
12,065.0	8,929.1	13,166.0	9,741.6	37.0	38.7	179.99	-2,895.4	-1,135.0	816.8	752.3	64.49	12.666
12,100.0	8,929.1	13,201.0	9,741.6	37.2	38.9	179.99	-2,930.4	-1,135.4	816.8	751.8	64.94	12.578
12,160.0	8,929.2	13,261.0	9,741.6	37.5	39.2	179.99	-2,990.3	-1,135.9	816.7	751.0	65.71	12.428

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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
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		
12,200.0	8,929.3	13,301.0	9,741.6	37.7	39.4	179.99	-3,030.3	-1,136.2	816.6	750.4	66.23	12.330		
12,255.0	8,929.4	13,356.0	9,741.7	38.0	39.7	179.99	-3,085.3	-1,136.7	816.6	749.6	66.95	12.196		
12,300.0	8,929.5	13,401.0	9,741.7	38.2	39.9	179.99	-3,130.3	-1,137.1	816.5	749.0	67.54	12.089		
12,350.0	8,929.6	13,451.0	9,741.7	38.5	40.1	179.99	-3,180.3	-1,137.6	816.4	748.2	68.20	11.971		
12,400.0	8,929.7	13,501.0	9,741.7	38.7	40.4	179.99	-3,230.3	-1,138.0	816.4	747.5	68.86	11.855		
12,445.0	8,929.8	13,546.0	9,741.8	38.9	40.6	179.99	-3,275.3	-1,138.4	816.3	746.8	69.46	11.752		
12,500.0	8,929.9	13,601.0	9,741.8	39.2	40.9	179.99	-3,330.3	-1,138.9	816.2	746.0	70.19	11.629		
12,540.0	8,930.0	13,641.0	9,741.8	39.4	41.1	179.99	-3,370.3	-1,139.3	816.2	745.4	70.72	11.540		
12,600.0	8,930.1	13,701.0	9,741.8	39.8	41.4	179.99	-3,430.3	-1,139.8	816.1	744.6	71.53	11.410		
12,635.0	8,930.1	13,736.0	9,741.9	39.9	41.6	179.99	-3,465.3	-1,140.1	816.0	744.0	72.00	11.334		
12,700.0	8,930.3	13,801.0	9,741.9	40.3	42.0	179.99	-3,530.3	-1,140.7	815.9	743.1	72.87	11.197		
12,730.0	8,930.3	13,831.0	9,741.9	40.5	42.1	179.99	-3,560.3	-1,141.0	815.9	742.6	73.28	11.134		
12,800.0	8,930.4	13,901.0	9,742.0	40.8	42.5	179.99	-3,630.3	-1,141.6	815.8	741.6	74.23	10.990		
12,825.0	8,930.5	13,926.0	9,742.0	41.0	42.7	179.99	-3,655.3	-1,141.8	815.8	741.2	74.57	10.939		
12,900.0	8,930.6	14,001.0	9,742.0	41.4	43.1	179.99	-3,730.3	-1,142.5	815.7	740.1	75.60	10.790		
12,920.0	8,930.7	14,021.0	9,742.0	41.5	43.2	179.99	-3,750.3	-1,142.6	815.7	739.8	75.87	10.751		
13,000.0	8,930.8	14,101.0	9,742.1	41.9	43.6	179.99	-3,830.3	-1,143.4	815.5	738.6	76.97	10.596		
13,015.0	8,930.8	14,116.0	9,742.1	42.0	43.7	179.99	-3,845.3	-1,143.5	815.5	738.3	77.18	10.567		
13,100.0	8,931.0	14,201.0	9,742.1	42.5	44.2	179.99	-3,930.3	-1,144.2	815.4	737.1	78.35	10.407		
13,110.0	8,931.0	14,211.0	9,742.1	42.6	44.2	179.99	-3,940.3	-1,144.3	815.4	736.9	78.49	10.389		
13,200.0	8,931.2	14,301.0	9,742.2	43.1	44.8	179.99	-4,030.3	-1,145.1	815.3	735.5	79.74	10.225		
13,205.0	8,931.2	14,306.0	9,742.2	43.1	44.8	179.99	-4,035.3	-1,145.2	815.3	735.5	79.80	10.216		
13,300.0	8,931.4	14,401.0	9,742.2	43.6	45.3	179.99	-4,130.3	-1,146.0	815.1	734.0	81.13	10.047		
13,395.0	8,931.6	14,496.0	9,742.3	44.2	45.9	179.99	-4,225.3	-1,146.9	815.0	732.5	82.46	9.884		
13,400.0	8,931.6	14,501.0	9,742.3	44.2	45.9	179.99	-4,230.3	-1,146.9	815.0	732.5	82.53	9.875		
13,490.0	8,931.7	14,591.0	9,742.3	44.7	46.4	179.99	-4,320.3	-1,147.7	814.9	731.1	83.79	9.725		
13,500.0	8,931.8	14,601.0	9,742.3	44.8	46.5	179.99	-4,330.3	-1,147.8	814.9	730.9	83.93	9.708		
13,585.0	8,931.9	14,686.0	9,742.4	45.3	47.0	179.99	-4,415.3	-1,148.5	814.7	729.6	85.13	9.570		
13,600.0	8,931.9	14,701.0	9,742.4	45.4	47.1	179.99	-4,430.3	-1,148.7	814.7	729.4	85.35	9.546		
13,680.0	8,932.1	14,781.0	9,742.4	45.9	47.6	179.99	-4,510.3	-1,149.4	814.6	728.1	86.48	9.420		
13,700.0	8,932.1	14,801.0	9,742.4	46.0	47.7	179.99	-4,530.3	-1,149.6	814.6	727.8	86.76	9.389		
13,775.0	8,932.3	14,876.0	9,742.5	46.4	48.1	179.99	-4,605.3	-1,150.2	814.5	726.7	87.83	9.273		
13,800.0	8,932.3	14,901.0	9,742.5	46.6	48.3	179.99	-4,630.3	-1,150.5	814.5	726.3	88.19	9.236		
13,870.0	8,932.5	14,971.0	9,742.5	47.0	48.7	179.99	-4,700.3	-1,151.1	814.4	725.2	89.18	9.131		
13,900.0	8,932.5	15,001.0	9,742.5	47.2	48.9	179.99	-4,730.3	-1,151.3	814.3	724.7	89.61	9.087		
13,965.0	8,932.6	15,066.0	9,742.6	47.6	49.3	179.99	-4,795.3	-1,151.9	814.2	723.7	90.54	8.993		
14,000.0	8,932.7	15,101.0	9,742.6	47.8	49.5	179.99	-4,830.3	-1,152.2	814.2	723.1	91.04	8.943		
14,060.0	8,932.8	15,161.0	9,742.6	48.2	49.9	179.99	-4,890.3	-1,152.8	814.1	722.2	91.91	8.858		
14,100.0	8,932.9	15,201.0	9,742.6	48.4	50.1	179.99	-4,930.3	-1,153.1	814.0	721.6	92.48	8.802		
14,155.0	8,933.0	15,256.0	9,742.7	48.8	50.4	179.99	-4,985.3	-1,153.6	814.0	720.7	93.27	8.727		
14,200.0	8,933.1	15,301.0	9,742.7	49.0	50.7	179.99	-5,030.3	-1,154.0	813.9	720.0	93.92	8.666		
14,250.0	8,933.2	15,351.0	9,742.7	49.3	51.0	179.99	-5,080.3	-1,154.4	813.8	719.2	94.64	8.599		
14,300.0	8,933.3	15,401.0	9,742.7	49.7	51.3	179.99	-5,130.3	-1,154.9	813.8	718.4	95.37	8.533		
14,345.0	8,933.4	15,446.0	9,742.8	49.9	51.6	179.99	-5,175.3	-1,155.3	813.7	717.7	96.02	8.475		
14,400.0	8,933.5	15,501.0	9,742.8	50.3	52.0	179.99	-5,230.3	-1,155.8	813.6	716.8	96.81	8.404		
14,440.0	8,933.5	15,541.0	9,742.8	50.5	52.2	179.99	-5,270.3	-1,156.1	813.6	716.2	97.40	8.353		
14,500.0	8,933.6	15,601.0	9,742.9	50.9	52.6	179.99	-5,330.3	-1,156.7	813.5	715.2	98.27	8.279		
14,535.0	8,933.7	15,636.0	9,742.9	51.1	52.8	179.99	-5,365.3	-1,157.0	813.5	714.7	98.78	8.235		
14,600.0	8,933.8	15,701.0	9,742.9	51.6	53.2	179.99	-5,430.2	-1,157.6	813.4	713.6	99.72	8.156		
14,630.0	8,933.9	15,731.0	9,742.9	51.7	53.4	179.99	-5,460.2	-1,157.8	813.3	713.2	100.16	8.120		
14,700.0	8,934.0	15,801.0	9,743.0	52.2	53.9	179.99	-5,530.2	-1,158.4	813.2	712.1	101.18	8.037		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
14,725.0	8,934.1	15,826.0	9,743.0	52.4	54.0	179.99	-5,555.2	-1,158.7	813.2	711.7	101.55	8.008
14,800.0	8,934.2	15,901.0	9,743.0	52.8	54.5	179.99	-5,630.2	-1,159.3	813.1	710.5	102.64	7.922
14,820.0	8,934.3	15,921.0	9,743.0	53.0	54.6	179.99	-5,650.2	-1,159.5	813.1	710.1	102.94	7.899
14,900.0	8,934.4	16,001.0	9,743.1	53.5	55.2	179.99	-5,730.2	-1,160.2	813.0	708.9	104.11	7.809
14,915.0	8,934.4	16,016.0	9,743.1	53.6	55.3	179.99	-5,745.2	-1,160.4	812.9	708.6	104.33	7.792
15,000.0	8,934.6	16,101.0	9,743.1	54.1	55.8	179.99	-5,830.2	-1,161.1	812.8	707.2	105.58	7.699
15,010.0	8,934.6	16,111.0	9,743.1	54.2	55.9	179.99	-5,840.2	-1,161.2	812.8	707.1	105.73	7.688
15,100.0	8,934.8	16,201.0	9,743.2	54.8	56.5	179.99	-5,930.2	-1,162.0	812.7	705.6	107.05	7.592
15,105.0	8,934.8	16,206.0	9,743.2	54.8	56.5	179.99	-5,935.2	-1,162.0	812.7	705.6	107.12	7.586
15,200.0	8,935.0	16,301.0	9,743.2	55.4	57.1	179.99	-6,030.2	-1,162.9	812.6	704.0	108.52	7.487
15,295.0	8,935.1	16,396.0	9,743.3	56.1	57.7	179.99	-6,125.2	-1,163.7	812.4	702.5	109.93	7.391
15,300.0	8,935.2	16,401.0	9,743.3	56.1	57.8	179.99	-6,130.2	-1,163.8	812.4	702.4	110.00	7.386
15,390.0	8,935.3	16,491.0	9,743.3	56.7	58.4	179.99	-6,220.2	-1,164.6	812.3	701.0	111.33	7.296
15,400.0	8,935.3	16,501.0	9,743.3	56.8	58.4	179.99	-6,230.2	-1,164.7	812.3	700.8	111.48	7.286
15,485.0	8,935.5	16,586.0	9,743.4	57.3	59.0	179.99	-6,315.2	-1,165.4	812.2	699.4	112.74	7.204
15,500.0	8,935.5	16,601.0	9,743.4	57.4	59.1	179.99	-6,330.2	-1,165.5	812.1	699.2	112.96	7.190
15,580.0	8,935.7	16,681.0	9,743.4	57.9	59.6	179.99	-6,410.2	-1,166.3	812.0	697.9	114.15	7.114
15,600.0	8,935.7	16,701.0	9,743.4	58.1	59.8	179.99	-6,430.2	-1,166.4	812.0	697.6	114.45	7.095
15,675.0	8,935.9	16,776.0	9,743.5	58.6	60.3	179.99	-6,505.2	-1,167.1	811.9	696.4	115.56	7.026
15,700.0	8,935.9	16,801.0	9,743.5	58.7	60.4	179.99	-6,530.2	-1,167.3	811.9	695.9	115.93	7.003
15,770.0	8,936.0	16,871.0	9,743.5	59.2	60.9	179.99	-6,600.2	-1,167.9	811.8	694.8	116.97	6.940
15,800.0	8,936.1	16,901.0	9,743.5	59.4	61.1	179.99	-6,630.2	-1,168.2	811.7	694.3	117.42	6.913
15,865.0	8,936.2	16,966.0	9,743.6	59.9	61.5	179.99	-6,695.2	-1,168.8	811.7	693.3	118.39	6.856
15,900.0	8,936.3	17,001.0	9,743.6	60.1	61.8	179.99	-6,730.2	-1,169.1	811.6	692.7	118.91	6.825
15,960.0	8,936.4	17,061.0	9,743.6	60.5	62.2	179.99	-6,790.2	-1,169.6	811.5	691.7	119.81	6.774
16,000.0	8,936.5	17,101.0	9,743.6	60.8	62.4	179.99	-6,830.2	-1,170.0	811.5	691.1	120.40	6.740
16,055.0	8,936.6	17,156.0	9,743.7	61.1	62.8	179.99	-6,885.2	-1,170.5	811.4	690.2	121.23	6.693
16,100.0	8,936.7	17,201.0	9,743.7	61.4	63.1	179.99	-6,930.2	-1,170.9	811.3	689.4	121.90	6.656
16,150.0	8,936.8	17,251.0	9,743.7	61.8	63.4	179.99	-6,980.2	-1,171.3	811.3	688.6	122.65	6.615
16,200.0	8,936.9	17,301.0	9,743.8	62.1	63.8	179.99	-7,030.2	-1,171.8	811.2	687.8	123.39	6.574
16,245.0	8,936.9	17,346.0	9,743.8	62.4	64.1	179.99	-7,075.2	-1,172.2	811.1	687.1	124.07	6.538
16,300.0	8,937.0	17,401.0	9,743.8	62.8	64.5	179.99	-7,130.2	-1,172.6	811.1	686.2	124.89	6.494
16,340.0	8,937.1	17,441.0	9,743.8	63.1	64.7	179.99	-7,170.2	-1,173.0	811.0	685.5	125.49	6.463
16,400.0	8,937.2	17,501.0	9,743.9	63.5	65.2	179.99	-7,230.2	-1,173.5	810.9	684.5	126.39	6.416
16,435.0	8,937.3	17,536.0	9,743.9	63.7	65.4	179.99	-7,265.2	-1,173.8	810.9	684.0	126.92	6.389
16,500.0	8,937.4	17,601.0	9,743.9	64.2	65.8	179.99	-7,330.2	-1,174.4	810.8	682.9	127.89	6.340
16,530.0	8,937.5	17,631.0	9,743.9	64.4	66.0	179.99	-7,360.2	-1,174.7	810.8	682.4	128.34	6.317
16,600.0	8,937.6	17,701.0	9,744.0	64.9	66.5	179.99	-7,430.2	-1,175.3	810.7	681.3	129.40	6.265
16,625.0	8,937.7	17,726.0	9,744.0	65.0	66.7	179.99	-7,455.2	-1,175.5	810.6	680.8	129.77	6.246
16,700.0	8,937.8	17,801.0	9,744.0	65.5	67.2	179.99	-7,530.2	-1,176.2	810.5	679.6	130.90	6.192
16,720.0	8,937.8	17,821.0	9,744.0	65.7	67.3	179.99	-7,550.2	-1,176.4	810.5	679.3	131.20	6.177
16,800.0	8,938.0	17,901.0	9,744.1	66.2	67.9	179.99	-7,630.2	-1,177.1	810.4	678.0	132.41	6.120
16,815.0	8,938.0	17,916.0	9,744.1	66.3	68.0	179.99	-7,645.2	-1,177.2	810.4	677.7	132.63	6.110
16,900.0	8,938.2	18,001.0	9,744.1	66.9	68.6	179.99	-7,730.2	-1,178.0	810.2	676.3	133.92	6.050
16,910.0	8,938.2	18,011.0	9,744.1	67.0	68.7	179.99	-7,740.2	-1,178.1	810.2	676.2	134.07	6.044
17,000.0	8,938.4	18,101.0	9,744.2	67.6	69.3	179.99	-7,830.2	-1,178.9	810.1	674.7	135.42	5.982
17,005.0	8,938.4	18,106.0	9,744.2	67.7	69.3	179.99	-7,835.2	-1,178.9	810.1	674.6	135.50	5.979
17,100.0	8,938.6	18,201.0	9,744.2	68.3	70.0	179.99	-7,930.1	-1,179.8	810.0	673.0	136.94	5.915
17,195.0	8,938.7	18,296.0	9,744.3	69.0	70.6	179.99	-8,025.1	-1,180.6	809.8	671.5	138.37	5.853
17,200.0	8,938.7	18,301.0	9,744.3	69.0	70.7	179.99	-8,030.1	-1,180.6	809.8	671.4	138.45	5.849
17,290.0	8,938.9	18,391.0	9,744.3	69.6	71.3	179.99	-8,120.1	-1,181.4	809.7	669.9	139.81	5.792

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
17,300.0	8,938.9	18,401.0	9,744.3	69.7	71.4	179.99	-8,130.1	-1,181.5	809.7	669.7	139.96	5.785	
17,385.0	8,939.1	18,486.0	9,744.4	70.3	72.0	179.99	-8,215.1	-1,182.3	809.6	668.3	141.25	5.732	
17,400.0	8,939.1	18,501.0	9,744.4	70.4	72.1	179.99	-8,230.1	-1,182.4	809.6	668.1	141.47	5.722	
17,480.0	8,939.3	18,581.0	9,744.4	71.0	72.6	179.99	-8,310.1	-1,183.1	809.5	666.8	142.69	5.673	
17,500.0	8,939.3	18,601.0	9,744.4	71.1	72.8	179.99	-8,330.1	-1,183.3	809.4	666.4	142.99	5.661	
17,575.0	8,939.4	18,676.0	9,744.5	71.6	73.3	179.99	-8,405.1	-1,184.0	809.3	665.2	144.13	5.615	
17,600.0	8,939.5	18,701.0	9,744.5	71.8	73.5	179.99	-8,430.1	-1,184.2	809.3	664.8	144.51	5.600	
17,670.0	8,939.6	18,771.0	9,744.5	72.3	74.0	179.99	-8,500.1	-1,184.8	809.2	663.6	145.57	5.559	
17,700.0	8,939.7	18,801.0	9,744.5	72.5	74.2	179.99	-8,530.1	-1,185.1	809.2	663.1	146.02	5.541	
17,765.0	8,939.8	18,866.0	9,744.6	73.0	74.6	179.99	-8,595.1	-1,185.7	809.1	662.1	147.01	5.503	
17,800.0	8,939.9	18,901.0	9,744.6	73.2	74.9	179.99	-8,630.1	-1,186.0	809.0	661.5	147.54	5.483	
17,860.0	8,940.0	18,961.0	9,744.6	73.6	75.3	179.99	-8,690.1	-1,186.5	808.9	660.5	148.45	5.449	
17,900.0	8,940.1	19,001.0	9,744.7	73.9	75.6	179.99	-8,730.1	-1,186.9	808.9	659.8	149.06	5.427	
17,955.0	8,940.2	19,056.0	9,744.7	74.3	76.0	179.99	-8,785.1	-1,187.3	808.8	658.9	149.90	5.396	
18,000.0	8,940.2	19,101.0	9,744.7	74.6	76.3	179.99	-8,830.1	-1,187.7	808.8	658.2	150.58	5.371	
18,050.0	8,940.3	19,151.0	9,744.7	75.0	76.6	179.99	-8,880.1	-1,188.2	808.7	657.3	151.34	5.343	
18,100.0	8,940.4	19,201.0	9,744.8	75.3	77.0	179.99	-8,930.1	-1,188.6	808.6	656.5	152.11	5.316	
18,145.0	8,940.5	19,246.0	9,744.8	75.7	77.3	179.99	-8,975.1	-1,189.0	808.6	655.8	152.79	5.292	
18,200.0	8,940.6	19,301.0	9,744.8	76.0	77.7	179.99	-9,030.1	-1,189.5	808.5	654.9	153.63	5.263	
18,240.0	8,940.7	19,341.0	9,744.8	76.3	78.0	179.99	-9,070.1	-1,189.9	808.4	654.2	154.24	5.241	
18,300.0	8,940.8	19,401.0	9,744.9	76.8	78.4	179.99	-9,130.1	-1,190.4	808.3	653.2	155.15	5.210	
18,335.0	8,940.9	19,436.0	9,744.9	77.0	78.7	180.00	-9,165.1	-1,190.7	808.3	652.6	155.69	5.192	
18,400.0	8,941.0	19,501.0	9,744.9	77.5	79.1	180.00	-9,230.1	-1,191.3	808.2	651.5	156.68	5.158	
18,430.0	8,941.1	19,531.0	9,744.9	77.7	79.3	180.00	-9,260.1	-1,191.6	808.2	651.0	157.13	5.143	
18,500.0	8,941.2	19,601.0	9,745.0	78.2	79.8	180.00	-9,330.1	-1,192.2	808.1	649.9	158.20	5.108	
18,525.0	8,941.2	19,626.0	9,745.0	78.4	80.0	180.00	-9,355.1	-1,192.4	808.0	649.5	158.58	5.095	
18,600.0	8,941.4	19,701.0	9,745.0	78.9	80.5	180.00	-9,430.1	-1,193.1	807.9	648.2	159.73	5.058	
18,620.0	8,941.4	19,721.0	9,745.0	79.0	80.7	180.00	-9,450.1	-1,193.2	807.9	647.9	160.03	5.048	
18,700.0	8,941.6	19,801.0	9,745.1	79.6	81.3	180.00	-9,530.1	-1,194.0	807.8	646.5	161.26	5.009	
18,715.0	8,941.6	19,816.0	9,745.1	79.7	81.4	180.00	-9,545.1	-1,194.1	807.8	646.3	161.49	5.002	
18,800.0	8,941.8	19,901.0	9,745.1	80.3	82.0	180.00	-9,630.1	-1,194.8	807.7	644.9	162.78	4.962	
18,810.0	8,941.8	19,911.0	9,745.1	80.4	82.0	180.00	-9,640.1	-1,194.9	807.7	644.7	162.94	4.957	
18,900.0	8,941.9	20,001.0	9,745.2	81.0	82.7	180.00	-9,730.1	-1,195.7	807.5	643.2	164.31	4.915	
18,905.0	8,942.0	20,006.0	9,745.2	81.1	82.7	180.00	-9,735.1	-1,195.8	807.5	643.1	164.39	4.912	
19,000.0	8,942.1	20,101.0	9,745.2	81.8	83.4	180.00	-9,830.1	-1,196.6	807.4	641.6	165.84	4.868	
19,095.0	8,942.3	20,196.0	9,745.3	82.4	84.1	180.00	-9,925.1	-1,197.5	807.3	640.0	167.30	4.825	
19,100.0	8,942.3	20,201.0	9,745.3	82.5	84.1	180.00	-9,930.1	-1,197.5	807.3	639.9	167.37	4.823	
19,190.0	8,942.5	20,291.0	9,745.3	83.1	84.8	180.00	-10,020.1	-1,198.3	807.1	638.4	168.75	4.783	
19,200.0	8,942.5	20,301.0	9,745.3	83.2	84.8	180.00	-10,030.1	-1,198.4	807.1	638.2	168.90	4.779	
19,285.0	8,942.7	20,386.0	9,745.4	83.8	85.5	180.00	-10,115.1	-1,199.2	807.0	636.8	170.21	4.741	
19,300.0	8,942.7	20,401.0	9,745.4	83.9	85.6	180.00	-10,130.1	-1,199.3	807.0	636.6	170.44	4.735	
19,380.0	8,942.9	20,481.0	9,745.4	84.5	86.1	180.00	-10,210.1	-1,200.0	806.9	635.2	171.66	4.700	
19,400.0	8,942.9	20,501.0	9,745.4	84.6	86.3	180.00	-10,230.1	-1,200.2	806.9	634.9	171.97	4.692	
19,475.0	8,943.0	20,576.0	9,745.5	85.2	86.8	180.00	-10,305.1	-1,200.8	806.8	633.6	173.12	4.660	
19,500.0	8,943.1	20,601.0	9,745.5	85.3	87.0	180.00	-10,330.1	-1,201.1	806.7	633.2	173.50	4.650	
19,570.0	8,943.2	20,671.0	9,745.5	85.9	87.5	180.00	-10,400.0	-1,201.7	806.6	632.0	174.57	4.621	
19,600.0	8,943.3	20,701.0	9,745.6	86.1	87.7	180.00	-10,430.0	-1,201.9	806.6	631.5	175.03	4.608	
19,665.0	8,943.4	20,766.0	9,745.6	86.5	88.2	180.00	-10,495.0	-1,202.5	806.5	630.5	176.03	4.582	
19,700.0	8,943.5	20,801.0	9,745.6	86.8	88.4	180.00	-10,530.0	-1,202.8	806.4	629.9	176.57	4.567	
19,760.0	8,943.6	20,861.0	9,745.6	87.2	88.9	180.00	-10,590.0	-1,203.4	806.4	628.9	177.49	4.543	
19,800.0	8,943.6	20,901.0	9,745.7	87.5	89.2	180.00	-10,630.0	-1,203.7	806.3	628.2	178.10	4.527	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 Wellbore Centre	Distance	Minimum Separation	Separation Factor	Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
19,855.0	8,943.7	20,956.0	9,745.7	87.9	89.6	180.00	-10,685.0	-1,204.2	806.2	627.3	178.95	4.505	
19,900.0	8,943.8	21,001.0	9,745.7	88.2	89.9	180.00	-10,730.0	-1,204.6	806.2	626.5	179.64	4.488	
19,950.0	8,943.9	21,051.0	9,745.7	88.6	90.3	180.00	-10,780.0	-1,205.1	806.1	625.7	180.41	4.468	
20,000.0	8,944.0	21,101.0	9,745.8	89.0	90.6	180.00	-10,830.0	-1,205.5	806.0	624.9	181.18	4.449	
20,045.0	8,944.1	21,146.0	9,745.8	89.3	90.9	180.00	-10,875.0	-1,205.9	806.0	624.1	181.87	4.432	
20,100.0	8,944.2	21,201.0	9,745.8	89.7	91.3	180.00	-10,930.0	-1,206.4	805.9	623.2	182.71	4.411	
20,140.0	8,944.3	21,241.0	9,745.8	90.0	91.6	180.00	-10,970.0	-1,206.7	805.9	622.5	183.33	4.396	
20,200.0	8,944.4	21,301.0	9,745.9	90.4	92.1	180.00	-11,030.0	-1,207.3	805.8	621.5	184.25	4.373	
20,235.0	8,944.5	21,336.0	9,745.9	90.7	92.3	180.00	-11,065.0	-1,207.6	805.7	620.9	184.79	4.360	
20,300.0	8,944.6	21,401.0	9,745.9	91.1	92.8	180.00	-11,130.0	-1,208.2	805.6	619.8	185.79	4.336	
20,330.0	8,944.6	21,431.0	9,745.9	91.4	93.0	180.00	-11,160.0	-1,208.4	805.6	619.3	186.25	4.325	
20,400.0	8,944.8	21,501.0	9,746.0	91.9	93.5	180.00	-11,230.0	-1,209.1	805.5	618.2	187.33	4.300	
20,425.0	8,944.8	21,526.0	9,746.0	92.1	93.7	180.00	-11,255.0	-1,209.3	805.5	617.8	187.71	4.291	
20,500.0	8,945.0	21,601.0	9,746.0	92.6	94.2	180.00	-11,330.0	-1,209.9	805.4	616.5	188.86	4.264	
20,520.0	8,945.0	21,621.0	9,746.0	92.7	94.4	180.00	-11,350.0	-1,210.1	805.3	616.2	189.17	4.257	
20,600.0	8,945.2	21,701.0	9,746.1	93.3	95.0	180.00	-11,430.0	-1,210.8	805.2	614.8	190.40	4.229	
20,615.0	8,945.2	21,716.0	9,746.1	93.4	95.1	180.00	-11,445.0	-1,211.0	805.2	614.6	190.63	4.224	
20,700.0	8,945.3	21,801.0	9,746.1	94.1	95.7	180.00	-11,530.0	-1,211.7	805.1	613.1	191.94	4.194	
20,710.0	8,945.4	21,811.0	9,746.1	94.1	95.8	180.00	-11,540.0	-1,211.8	805.1	613.0	192.10	4.191	
20,800.0	8,945.5	21,901.0	9,746.2	94.8	96.4	180.00	-11,630.0	-1,212.6	805.0	611.5	193.48	4.160	
20,805.0	8,945.5	21,906.0	9,746.2	94.8	96.5	180.00	-11,635.0	-1,212.6	804.9	611.4	193.56	4.159	
20,900.0	8,945.7	22,001.0	9,746.2	95.5	97.2	180.00	-11,730.0	-1,213.5	804.8	609.8	195.02	4.127	
20,995.0	8,945.9	22,096.0	9,746.3	96.2	97.9	180.00	-11,825.0	-1,214.3	804.7	608.2	196.49	4.095	
21,000.0	8,945.9	22,101.0	9,746.3	96.2	97.9	180.00	-11,830.0	-1,214.4	804.7	608.1	196.57	4.094	
21,090.0	8,946.1	22,191.0	9,746.3	96.9	98.6	180.00	-11,920.0	-1,215.2	804.6	606.6	197.95	4.064	
21,100.0	8,946.1	22,201.0	9,746.3	97.0	98.6	180.00	-11,930.0	-1,215.3	804.5	606.4	198.11	4.061	
21,185.0	8,946.3	22,286.0	9,746.4	97.6	99.2	180.00	-12,015.0	-1,216.0	804.4	605.0	199.42	4.034	
21,200.0	8,946.3	22,301.0	9,746.4	97.7	99.4	180.00	-12,030.0	-1,216.2	804.4	604.8	199.65	4.029	
21,280.0	8,946.4	22,381.0	9,746.4	98.3	99.9	180.00	-12,110.0	-1,216.9	804.3	603.4	200.88	4.004	
21,300.0	8,946.5	22,401.0	9,746.4	98.4	100.1	180.00	-12,130.0	-1,217.0	804.3	603.1	201.19	3.998	
21,375.0	8,946.6	22,476.0	9,746.5	99.0	100.6	180.00	-12,205.0	-1,217.7	804.2	601.8	202.35	3.974	
21,400.0	8,946.7	22,501.0	9,746.5	99.2	100.8	180.00	-12,230.0	-1,217.9	804.1	601.4	202.74	3.966	
21,470.0	8,946.8	22,571.0	9,746.5	99.7	101.3	180.00	-12,300.0	-1,218.6	804.0	600.2	203.82	3.945	
21,500.0	8,946.9	22,601.0	9,746.6	99.9	101.6	180.00	-12,330.0	-1,218.8	804.0	599.7	204.28	3.936	
21,565.0	8,947.0	22,666.0	9,746.6	100.4	102.0	180.00	-12,395.0	-1,219.4	803.9	598.6	205.28	3.916	
21,600.0	8,947.0	22,701.0	9,746.6	100.6	102.3	180.00	-12,430.0	-1,219.7	803.9	598.0	205.82	3.906	
21,660.0	8,947.2	22,761.0	9,746.6	101.1	102.7	180.00	-12,490.0	-1,220.2	803.8	597.0	206.75	3.888	
21,700.0	8,947.2	22,801.0	9,746.7	101.4	103.0	180.00	-12,530.0	-1,220.6	803.7	596.4	207.37	3.876	
21,755.0	8,947.3	22,856.0	9,746.7	101.8	103.4	180.00	-12,585.0	-1,221.1	803.7	595.4	208.22	3.860	
21,800.0	8,947.4	22,901.0	9,746.7	102.1	103.8	180.00	-12,630.0	-1,221.5	803.6	594.7	208.91	3.847	
21,850.0	8,947.5	22,951.0	9,746.7	102.5	104.1	180.00	-12,680.0	-1,221.9	803.5	593.8	209.68	3.832	
21,900.0	8,947.6	23,001.0	9,746.8	102.8	104.5	180.00	-12,730.0	-1,222.4	803.5	593.0	210.46	3.818	
21,945.0	8,947.7	23,046.0	9,746.8	103.2	104.8	180.00	-12,775.0	-1,222.8	803.4	592.2	211.15	3.805	
22,000.0	8,947.8	23,101.0	9,746.8	103.6	105.2	180.00	-12,829.9	-1,223.3	803.3	591.3	212.00	3.789	
22,040.0	8,947.9	23,141.0	9,746.8	103.9	105.5	180.00	-12,869.9	-1,223.6	803.3	590.7	212.62	3.778	
22,100.0	8,948.0	23,201.0	9,746.9	104.3	106.0	180.00	-12,929.9	-1,224.1	803.2	589.6	213.55	3.761	
22,135.0	8,948.0	23,236.0	9,746.9	104.6	106.2	180.00	-12,964.9	-1,224.5	803.1	589.1	214.09	3.751	
22,200.0	8,948.2	23,301.0	9,746.9	105.1	106.7	180.00	-13,029.9	-1,225.0	803.1	588.0	215.09	3.734	
22,230.0	8,948.2	23,331.0	9,746.9	105.3	106.9	180.00	-13,059.9	-1,225.3	803.0	587.5	215.56	3.725	
22,300.0	8,948.4	23,401.0	9,747.0	105.8	107.4	180.00	-13,129.9	-1,225.9	802.9	586.3	216.64	3.706	
22,325.0	8,948.4	23,426.0	9,747.0	106.0	107.6	180.00	-13,154.9	-1,226.1	802.9	585.9	217.03	3.699	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
22,400.0	8,948.5	23,501.0	9,747.0	106.5	108.2	180.00		-13,229.9	-1,226.8	802.8	584.6	218.19	3.679	
22,420.0	8,948.6	23,521.0	9,747.0	106.7	108.3	180.00		-13,249.9	-1,227.0	802.8	584.3	218.49	3.674	
22,500.0	8,948.7	23,601.0	9,747.1	107.3	108.9	180.00		-13,329.9	-1,227.7	802.6	582.9	219.73	3.653	
22,515.0	8,948.8	23,616.0	9,747.1	107.4	109.0	180.00		-13,344.9	-1,227.8	802.6	582.7	219.96	3.649	
22,600.0	8,948.9	23,701.0	9,747.1	108.0	109.6	180.00		-13,429.9	-1,228.6	802.5	581.2	221.28	3.627	
22,610.0	8,948.9	23,711.0	9,747.1	108.1	109.7	180.00		-13,439.9	-1,228.7	802.5	581.1	221.43	3.624	
22,700.0	8,949.1	23,801.0	9,747.2	108.7	110.4	180.00		-13,529.9	-1,229.5	802.4	579.5	222.83	3.601	
22,705.0	8,949.1	23,806.0	9,747.2	108.8	110.4	180.00		-13,534.9	-1,229.5	802.4	579.5	222.90	3.600	
22,800.0	8,949.3	23,901.0	9,747.2	109.5	111.1	180.00		-13,629.9	-1,230.4	802.2	577.9	224.38	3.575	
22,895.0	8,949.5	23,996.0	9,747.3	110.2	111.8	180.00		-13,724.9	-1,231.2	802.1	576.3	225.85	3.552	
22,900.0	8,949.5	24,001.0	9,747.3	110.2	111.9	180.00		-13,729.9	-1,231.2	802.1	576.2	225.92	3.550	
22,990.0	8,949.7	24,091.0	9,747.3	110.9	112.5	180.00		-13,819.9	-1,232.0	802.0	574.7	227.32	3.528	
23,000.0	8,949.7	24,101.0	9,747.3	111.0	112.6	180.00		-13,829.9	-1,232.1	802.0	574.5	227.47	3.526	
23,085.0	8,949.8	24,186.0	9,747.4	111.6	113.2	180.00		-13,914.9	-1,232.9	801.9	573.1	228.79	3.505	
23,100.0	8,949.9	24,201.0	9,747.4	111.7	113.3	180.00		-13,929.9	-1,233.0	801.8	572.8	229.02	3.501	
23,180.0	8,950.0	24,281.0	9,747.4	112.3	113.9	180.00		-14,009.9	-1,233.7	801.7	571.5	230.26	3.482	
23,200.0	8,950.1	24,301.0	9,747.5	112.4	114.1	180.00		-14,029.9	-1,233.9	801.7	571.1	230.57	3.477	
23,275.0	8,950.2	24,376.0	9,747.5	113.0	114.6	180.00		-14,104.9	-1,234.6	801.6	569.9	231.73	3.459	
23,300.0	8,950.2	24,401.0	9,747.5	113.2	114.8	180.00		-14,129.9	-1,234.8	801.6	569.4	232.12	3.453	
23,370.0	8,950.4	24,471.0	9,747.5	113.7	115.3	180.00		-14,199.9	-1,235.4	801.5	568.3	233.20	3.437	
23,400.0	8,950.4	24,501.0	9,747.6	113.9	115.6	180.00		-14,229.9	-1,235.7	801.4	567.8	233.67	3.430	
23,465.0	8,950.6	24,566.0	9,747.6	114.4	116.0	180.00		-14,294.9	-1,236.3	801.3	566.7	234.68	3.415	
23,500.0	8,950.6	24,601.0	9,747.6	114.7	116.3	180.00		-14,329.9	-1,236.6	801.3	566.1	235.22	3.407	
23,560.0	8,950.7	24,661.0	9,747.6	115.1	116.7	180.00		-14,389.9	-1,237.1	801.2	565.1	236.15	3.393	
23,600.0	8,950.8	24,701.0	9,747.7	115.4	117.0	180.00		-14,429.9	-1,237.5	801.2	564.4	236.77	3.384	
23,655.0	8,950.9	24,756.0	9,747.7	115.8	117.4	180.00		-14,484.9	-1,238.0	801.1	563.5	237.62	3.371	
23,700.0	8,951.0	24,801.0	9,747.7	116.1	117.8	180.00		-14,529.9	-1,238.4	801.0	562.7	238.32	3.361	
23,750.0	8,951.1	24,851.0	9,747.7	116.5	118.1	180.00		-14,579.9	-1,238.8	801.0	561.9	239.09	3.350	
23,800.0	8,951.2	24,901.0	9,747.8	116.9	118.5	180.00		-14,629.9	-1,239.2	800.9	561.0	239.87	3.339	
23,845.0	8,951.3	24,946.0	9,747.8	117.2	118.9	180.00		-14,674.9	-1,239.6	800.8	560.3	240.57	3.329	
23,900.0	8,951.4	25,001.0	9,747.8	117.6	119.3	180.00		-14,729.9	-1,240.1	800.7	559.3	241.42	3.317	
23,940.0	8,951.5	25,041.0	9,747.8	117.9	119.6	180.00		-14,769.9	-1,240.5	800.7	558.7	242.04	3.308	
24,000.0	8,951.6	25,101.0	9,747.9	118.4	120.0	180.00		-14,829.9	-1,241.0	800.6	557.6	242.97	3.295	
24,035.0	8,951.6	25,136.0	9,747.9	118.6	120.3	180.00		-14,864.9	-1,241.3	800.6	557.0	243.51	3.288	
24,099.3	8,951.8	25,200.3	9,747.9	119.1	120.7	180.00		-14,929.2	-1,241.9	800.5	556.0	244.51	3.274	
24,130.0	8,951.8	25,231.0	9,747.9	119.3	121.0	-180.00		-14,959.9	-1,242.2	800.4	555.4	244.99	3.267	
24,200.0	8,951.9	25,301.0	9,748.0	119.9	121.5	-180.00		-15,029.9	-1,242.8	800.3	554.3	246.07	3.252	
24,225.0	8,952.0	25,326.0	9,748.0	120.0	121.7	-180.00		-15,054.9	-1,243.0	800.3	553.8	246.46	3.247	
24,229.3	8,952.0	25,330.3	9,748.0	120.1	121.7	-180.00		-15,059.2	-1,243.1	800.3	553.8	246.53	3.246 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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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	Factor		
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
(usft)	(usft)	(usft)	(usft)											
0.0	0.0	0.0	0.0	3.0	3.0	-33.31	1,023.5	-672.5	1,225.2					
95.0	95.0	55.4	55.4	3.0	3.1	-33.30	1,023.6	-672.4	1,224.8	1,218.7	6.03	203.217		
100.0	100.0	60.0	60.0	3.0	3.2	-33.30	1,023.7	-672.4	1,224.8	1,218.7	6.03	203.067		
190.0	190.0	144.5	144.5	3.1	3.8	-33.26	1,024.5	-672.0	1,225.3	1,219.1	6.19	197.952		
200.0	200.0	153.9	153.9	3.1	3.9	-33.26	1,024.6	-672.0	1,225.3	1,219.1	6.22	197.155		
285.0	285.0	233.6	233.6	3.3	4.9	-33.19	1,026.0	-671.3	1,226.2	1,219.8	6.40	191.464		
300.0	300.0	247.6	247.6	3.3	5.1	-33.18	1,026.4	-671.1	1,226.4	1,220.0	6.44	190.332		
380.0	380.0	322.6	322.6	3.4	6.1	-33.09	1,028.4	-670.2	1,227.7	1,221.0	6.65	184.547		
400.0	400.0	341.4	341.3	3.4	6.4	-33.07	1,028.9	-669.9	1,228.0	1,221.3	6.71	183.019		
475.0	475.0	411.6	411.5	3.5	7.4	-32.96	1,031.4	-668.8	1,229.5	1,222.6	6.93	177.485		
500.0	500.0	437.1	436.9	3.5	7.7	-32.92	1,032.4	-668.3	1,230.1	1,223.1	7.00	175.636		
570.0	570.0	535.7	535.5	3.6	8.2	-32.81	1,034.5	-667.0	1,230.8	1,223.6	7.21	170.830		
573.3	573.3	540.3	540.1	3.6	8.3	-32.81	1,034.5	-667.0	1,230.8	1,223.6	7.22	170.592		
600.0	600.0	562.6	562.5	3.6	8.3	-32.80	1,034.7	-666.8	1,230.9	1,223.6	7.34	167.605		
665.0	665.0	629.2	629.0	3.7	8.5	-32.77	1,035.0	-666.3	1,231.0	1,223.3	7.61	161.663		
700.0	700.0	665.0	664.8	3.8	8.7	-32.76	1,035.2	-666.1	1,230.9	1,223.2	7.76	158.618		
760.0	760.0	725.6	725.5	3.8	8.9	-32.75	1,035.3	-665.8	1,230.9	1,222.9	8.00	153.875		
800.0	800.0	764.3	764.1	3.9	9.0	-32.74	1,035.3	-665.6	1,230.8	1,222.7	8.14	151.173		
803.5	803.5	767.7	767.5	3.9	9.0	-32.74	1,035.3	-665.6	1,230.8	1,222.7	8.15	150.947		
855.0	855.0	817.5	817.3	4.0	9.1	-32.73	1,035.5	-665.5	1,230.9	1,222.5	8.34	147.662		
900.0	900.0	861.0	860.8	4.0	9.2	-32.72	1,035.6	-665.4	1,231.0	1,222.5	8.50	144.900		
950.0	950.0	909.7	909.5	4.1	9.3	-32.72	1,035.8	-665.4	1,231.1	1,222.5	8.67	142.068		
1,000.0	1,000.0	959.6	959.4	4.1	9.5	-32.71	1,036.0	-665.4	1,231.3	1,222.5	8.83	139.493		
1,045.0	1,045.0	1,004.5	1,004.3	4.2	9.6	-32.71	1,036.2	-665.4	1,231.5	1,222.5	8.98	137.199		
1,100.0	1,100.0	1,059.3	1,059.1	4.2	9.7	-32.70	1,036.5	-665.4	1,231.7	1,222.5	9.16	134.395		
1,140.0	1,140.0	1,099.0	1,098.8	4.3	9.9	-32.69	1,036.7	-665.4	1,231.9	1,222.6	9.30	132.433		
1,200.0	1,200.0	1,157.9	1,157.7	4.4	10.1	-32.68	1,037.1	-665.3	1,232.1	1,222.6	9.50	129.651		
1,235.0	1,235.0	1,192.3	1,192.1	4.4	10.2	-32.66	1,037.4	-665.1	1,232.3	1,222.7	9.62	128.086		
1,300.0	1,300.0	1,256.2	1,256.0	4.5	10.4	-32.62	1,038.2	-664.6	1,232.7	1,222.9	9.84	125.255		
1,330.0	1,330.0	1,288.2	1,287.9	4.5	10.5	-32.60	1,038.7	-664.2	1,232.9	1,222.9	9.98	123.501		
1,400.0	1,400.0	1,370.7	1,370.5	4.6	10.7	-32.51	1,039.6	-662.7	1,232.9	1,222.5	10.43	118.242		
1,425.0	1,425.0	1,400.2	1,400.0	4.6	10.8	-32.48	1,039.9	-661.9	1,232.7	1,222.1	10.58	116.501		
1,500.0	1,500.0	1,482.0	1,481.7	4.7	11.0	-32.36	1,040.3	-659.3	1,231.7	1,220.7	11.01	111.823		
1,520.0	1,520.0	1,499.2	1,498.9	4.7	11.0	39.85	1,040.3	-658.8	1,231.4	1,220.3	11.12	110.737		
1,600.0	1,600.0	1,570.4	1,570.1	4.8	11.1	39.94	1,040.1	-658.0	1,229.5	1,217.9	11.59	106.040		
1,615.0	1,615.0	1,586.4	1,586.1	4.9	11.1	39.97	1,040.0	-658.0	1,229.0	1,217.2	11.73	104.769		
1,700.0	1,699.8	1,677.1	1,676.8	5.0	11.3	40.19	1,039.6	-657.3	1,224.7	1,212.2	12.50	97.976		
1,710.0	1,709.8	1,687.7	1,687.4	5.0	11.3	40.22	1,039.5	-657.2	1,224.0	1,211.4	12.59	97.223		
1,800.0	1,799.5	1,782.0	1,781.7	5.3	11.4	40.62	1,039.0	-655.7	1,216.7	1,203.4	13.36	91.054		
1,805.0	1,804.4	1,787.1	1,786.8	5.3	11.5	40.65	1,039.0	-655.6	1,216.3	1,202.9	13.40	90.755		
1,900.0	1,898.7	1,883.7	1,883.4	5.6	11.6	41.23	1,038.5	-653.4	1,205.9	1,191.8	14.13	85.341		
1,995.0	1,992.5	1,978.0	1,977.7	5.9	11.8	41.97	1,038.1	-650.7	1,193.1	1,178.3	14.76	80.808		
2,000.0	1,997.5	1,982.9	1,982.5	5.9	11.8	42.01	1,038.1	-650.6	1,192.3	1,177.6	14.79	80.610		
2,090.0	2,085.8	2,069.3	2,068.9	6.2	12.0	42.85	1,037.9	-648.0	1,178.2	1,162.9	15.27	77.153		
2,100.0	2,095.6	2,078.9	2,078.5	6.2	12.0	42.95	1,037.9	-647.7	1,176.5	1,161.2	15.32	76.786		
2,185.0	2,178.5	2,160.7	2,160.2	6.5	12.2	43.89	1,037.8	-645.3	1,161.3	1,145.5	15.79	73.536		
2,199.8	2,192.9	2,175.2	2,174.7	6.6	12.2	44.07	1,037.8	-644.9	1,158.5	1,142.6	15.89	72.923		
2,280.0	2,270.7	2,253.8	2,253.3	6.8	12.4	44.84	1,037.7	-642.5	1,143.2	1,126.8	16.37	69.837		
2,300.0	2,290.1	2,273.4	2,272.9	6.9	12.4	45.04	1,037.6	-641.9	1,139.3	1,122.9	16.49	69.100		
2,375.0	2,362.9	2,346.0	2,345.5	7.2	12.6	45.78	1,037.4	-639.7	1,125.2	1,108.2	16.96	66.354		
2,400.0	2,387.1	2,369.4	2,368.9	7.2	12.7	46.02	1,037.4	-639.0	1,120.5	1,103.4	17.13	65.427		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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				Rule Assigned:								Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,470.0	2,455.0	2,435.1	2,434.5	7.5	12.8	46.71	1,037.3	-637.0	1,107.6	1,090.0	17.60	62.939	
2,500.0	2,484.1	2,463.2	2,462.6	7.6	12.9	47.01	1,037.3	-636.1	1,102.1	1,084.3	17.80	61.928	
2,565.0	2,547.2	2,516.0	2,515.4	7.8	13.1	47.59	1,037.3	-634.5	1,090.5	1,072.3	18.19	59.938	
2,600.0	2,581.2	2,552.6	2,551.9	7.9	13.2	47.98	1,037.4	-633.6	1,084.4	1,066.0	18.41	58.894	
2,660.0	2,639.4	2,603.0	2,602.4	8.2	13.3	48.51	1,037.6	-632.9	1,074.5	1,055.7	18.75	57.289	
2,700.0	2,678.2	2,636.9	2,636.2	8.3	13.4	48.85	1,037.8	-632.8	1,068.1	1,049.1	18.99	56.259	
2,755.0	2,731.6	2,683.6	2,683.0	8.5	13.6	49.30	1,038.0	-633.3	1,059.7	1,040.4	19.31	54.884	
2,800.0	2,775.2	2,724.6	2,724.0	8.7	13.7	49.68	1,038.3	-634.1	1,053.2	1,033.5	19.67	53.542	
2,850.0	2,823.8	2,774.1	2,773.4	8.9	13.8	50.13	1,038.6	-635.2	1,045.9	1,025.7	20.22	51.731	
2,900.0	2,872.3	2,823.6	2,822.9	9.1	13.9	50.59	1,038.8	-636.3	1,038.8	1,018.0	20.77	50.020	
2,945.0	2,915.9	2,868.1	2,867.4	9.3	14.0	51.01	1,039.0	-637.3	1,032.3	1,011.1	21.26	48.554	
3,000.0	2,969.3	2,922.2	2,921.5	9.5	14.2	51.53	1,039.2	-638.6	1,024.5	1,002.7	21.76	47.091	
3,040.0	3,008.1	2,961.3	2,960.6	9.7	14.2	51.91	1,039.3	-639.5	1,018.8	996.8	22.02	46.260	
3,100.0	3,066.3	3,019.9	3,019.2	9.9	14.4	52.48	1,039.5	-640.8	1,010.5	988.0	22.42	45.069	
3,135.0	3,100.3	3,054.1	3,053.4	10.1	14.5	52.82	1,039.6	-641.6	1,005.6	983.0	22.65	44.400	
3,200.0	3,163.4	3,118.0	3,117.2	10.3	14.6	53.46	1,039.8	-643.0	996.7	973.7	23.04	43.267	
3,230.0	3,192.5	3,147.6	3,146.8	10.5	14.7	53.76	1,039.9	-643.7	992.6	969.4	23.20	42.789	
3,300.0	3,260.4	3,219.7	3,218.9	10.8	14.9	54.48	1,039.9	-645.6	983.1	959.5	23.59	41.671	
3,325.0	3,284.7	3,246.8	3,246.0	10.9	15.0	54.72	1,039.6	-646.9	979.6	955.9	23.74	41.265	
3,400.0	3,357.4	3,331.4	3,330.3	11.2	15.5	55.32	1,037.3	-653.2	968.8	944.6	24.18	40.069	
3,420.0	3,376.8	3,354.5	3,353.2	11.3	15.6	55.45	1,036.3	-655.4	965.8	941.5	24.30	39.751	
3,500.0	3,454.5	3,437.6	3,435.8	11.6	16.1	55.88	1,032.1	-664.2	953.3	928.6	24.74	38.537	
3,515.0	3,469.0	3,452.8	3,450.8	11.7	16.1	55.96	1,031.3	-665.8	951.0	926.1	24.82	38.316	
3,600.0	3,551.5	3,538.4	3,535.9	12.1	16.6	56.42	1,026.8	-674.6	937.5	912.3	25.28	37.093	
3,610.0	3,561.2	3,548.5	3,545.9	12.1	16.7	56.48	1,026.3	-675.6	936.0	910.6	25.33	36.952	
3,700.0	3,648.5	3,638.0	3,634.9	12.5	17.0	57.00	1,021.5	-684.5	921.7	895.8	25.85	35.657	
3,705.0	3,653.4	3,643.0	3,639.8	12.5	17.0	57.03	1,021.2	-685.0	920.9	895.0	25.88	35.588	
3,800.0	3,745.6	3,737.2	3,733.5	13.0	17.4	57.60	1,016.1	-694.2	905.7	879.3	26.40	34.312	
3,895.0	3,837.7	3,847.8	3,843.3	13.4	17.9	58.29	1,009.2	-704.9	889.9	863.0	26.97	32.993	
3,900.0	3,842.6	3,853.8	3,849.3	13.4	17.9	58.33	1,008.7	-705.5	889.1	862.0	27.00	32.922	
3,990.0	3,929.9	3,961.5	3,956.1	13.8	18.4	58.98	999.3	-716.0	872.1	844.5	27.56	31.638	
4,000.0	3,939.6	3,968.2	3,962.7	13.9	18.4	59.02	998.7	-716.7	870.1	842.5	27.61	31.512	
4,085.0	4,022.1	4,051.0	4,044.7	14.3	18.8	59.54	990.8	-724.5	853.5	825.4	28.09	30.388	
4,100.0	4,036.6	4,065.6	4,059.2	14.3	18.9	59.64	989.5	-725.9	850.6	822.4	28.17	30.195	
4,180.0	4,114.3	4,143.4	4,136.3	14.7	19.2	60.19	982.3	-732.8	835.1	806.5	28.61	29.193	
4,200.0	4,133.7	4,162.7	4,155.5	14.8	19.3	60.34	980.5	-734.5	831.2	802.5	28.71	28.955	
4,275.0	4,206.5	4,235.2	4,227.5	15.1	19.6	60.91	973.9	-740.5	816.8	787.8	29.08	28.087	
4,300.0	4,230.7	4,259.3	4,251.4	15.3	19.7	61.11	971.8	-742.4	812.1	782.9	29.21	27.805	
4,370.0	4,298.6	4,327.0	4,318.6	15.6	19.9	61.71	965.8	-747.5	798.8	769.3	29.55	27.036	
4,400.0	4,327.7	4,353.1	4,344.5	15.7	20.1	61.94	963.6	-749.5	793.3	763.5	29.72	26.688	
4,465.0	4,390.8	4,409.9	4,401.0	16.0	20.3	62.43	959.0	-754.3	781.6	751.5	30.11	25.960	
4,500.0	4,424.8	4,440.7	4,431.5	16.2	20.5	62.67	956.6	-757.3	775.6	745.3	30.32	25.584	
4,560.0	4,483.0	4,493.7	4,484.1	16.5	20.8	63.07	952.8	-762.9	765.7	735.0	30.67	24.962	
4,600.0	4,521.8	4,530.4	4,520.5	16.6	20.9	63.32	950.3	-767.2	759.3	728.4	30.92	24.558	
4,655.0	4,575.2	4,584.9	4,574.4	16.9	21.2	63.70	946.6	-773.6	750.7	719.4	31.27	24.005	
4,700.0	4,618.8	4,629.4	4,618.6	17.1	21.4	64.03	943.6	-778.7	743.6	712.0	31.55	23.564	
4,750.0	4,667.4	4,678.8	4,667.6	17.3	21.7	64.41	940.3	-784.2	735.7	703.8	31.87	23.087	
4,800.0	4,715.9	4,728.3	4,716.6	17.6	21.9	64.81	937.0	-789.7	727.9	695.7	32.15	22.639	
4,845.0	4,759.5	4,772.8	4,760.7	17.8	22.1	65.18	934.0	-794.4	720.8	688.4	32.37	22.266	
4,900.0	4,812.9	4,827.1	4,814.6	18.0	22.3	65.66	930.3	-800.1	712.2	679.6	32.64	21.821	
4,940.0	4,851.7	4,866.6	4,853.8	18.2	22.4	66.02	927.7	-804.1	706.0	673.1	32.83	21.504	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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:							
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)	Minimum Separation (usft)	Separation Factor	Warning
5,000.0	4,909.9	4,924.4	4,911.3	18.5	22.6	66.58	923.8	-809.9	696.7	663.6	33.11	21.039	
5,035.0	4,943.9	4,957.3	4,943.8	18.7	22.8	66.89	921.7	-813.2	691.4	658.1	33.28	20.773	
5,100.0	5,007.0	5,018.3	5,004.5	19.0	23.0	67.46	917.8	-819.8	681.8	648.2	33.59	20.295	
5,130.0	5,036.1	5,046.6	5,032.5	19.1	23.1	67.72	916.2	-822.9	677.5	643.7	33.74	20.081	
5,200.0	5,104.0	5,113.6	5,098.9	19.5	23.4	68.33	912.3	-830.7	667.6	633.6	34.07	19.593	
5,225.0	5,128.3	5,138.1	5,123.2	19.6	23.5	68.55	910.9	-833.6	664.2	630.0	34.20	19.421	
5,300.0	5,201.0	5,211.9	5,196.3	19.9	23.7	69.20	906.7	-842.7	653.8	619.3	34.57	18.915	
5,320.0	5,220.4	5,231.6	5,215.8	20.0	23.8	69.37	905.6	-845.1	651.1	616.4	34.67	18.782	
5,400.0	5,298.1	5,310.6	5,294.0	20.4	24.1	70.07	901.1	-855.2	640.2	605.2	35.06	18.261	
5,415.0	5,312.6	5,325.5	5,308.8	20.5	24.2	70.20	900.3	-857.1	638.2	603.0	35.13	18.165	
5,500.0	5,395.1	5,409.7	5,392.3	20.9	24.5	71.00	895.4	-867.5	626.7	591.1	35.54	17.633	
5,510.0	5,404.8	5,419.7	5,402.1	20.9	24.5	71.10	894.9	-868.7	625.3	589.7	35.59	17.572	
5,600.0	5,492.1	5,507.8	5,489.5	21.4	24.9	72.01	889.8	-879.2	613.3	577.2	36.00	17.033	
5,605.0	5,497.0	5,512.7	5,494.3	21.4	24.9	72.06	889.5	-879.7	612.6	576.6	36.03	17.004	
5,700.0	5,589.1	5,604.4	5,585.3	21.8	25.2	73.09	884.4	-890.2	600.3	563.8	36.45	16.467	
5,795.0	5,681.3	5,699.7	5,679.9	22.3	25.6	74.25	879.3	-900.6	588.4	551.5	36.86	15.960	
5,800.0	5,686.2	5,705.0	5,685.1	22.3	25.6	74.32	879.0	-901.2	587.7	550.8	36.88	15.934	
5,890.0	5,773.5	5,800.3	5,779.8	22.8	26.0	75.60	872.9	-910.9	575.8	538.5	37.24	15.459	
5,900.0	5,783.2	5,810.9	5,790.3	22.8	26.0	75.75	872.2	-911.9	574.4	537.1	37.28	15.406	
5,985.0	5,865.7	5,901.4	5,880.1	23.2	26.4	77.10	865.2	-920.5	562.3	524.7	37.60	14.953	
6,000.0	5,880.2	5,917.5	5,896.1	23.3	26.4	77.34	863.8	-922.1	560.1	522.4	37.66	14.872	
6,080.0	5,957.9	6,003.1	5,980.9	23.7	26.7	78.68	855.9	-930.4	547.7	509.8	37.95	14.431	
6,100.0	5,977.3	6,024.5	6,002.1	23.8	26.8	79.02	853.7	-932.5	544.5	506.5	38.03	14.319	
6,175.0	6,050.0	6,106.3	6,082.9	24.1	27.1	80.37	844.6	-940.7	531.9	493.6	38.30	13.889	
6,200.0	6,074.3	6,133.6	6,109.9	24.2	27.2	80.83	841.3	-943.5	527.5	489.1	38.39	13.742	
6,270.0	6,142.2	6,209.8	6,185.1	24.6	27.5	82.17	831.2	-951.3	514.5	475.9	38.63	13.318	
6,299.8	6,171.1	6,242.2	6,216.9	24.7	27.7	82.76	826.6	-954.7	508.8	470.0	38.74	13.132	
6,365.0	6,234.6	6,302.0	6,275.8	25.0	27.9	83.60	818.0	-960.7	496.5	457.4	39.05	12.715	
6,400.0	6,268.8	6,334.9	6,308.2	25.2	28.0	84.04	813.4	-963.8	490.1	450.9	39.21	12.499	
6,460.0	6,327.6	6,391.5	6,364.1	25.5	28.2	84.75	805.6	-968.9	479.6	440.1	39.49	12.145	
6,500.0	6,366.9	6,423.0	6,395.1	25.7	28.3	85.10	801.3	-971.6	472.9	433.2	39.72	11.907	
6,555.0	6,421.2	6,478.8	6,450.3	25.9	28.6	85.71	794.0	-976.1	464.1	424.1	39.98	11.608	
6,600.0	6,465.7	6,519.7	6,490.7	26.1	28.7	86.08	789.0	-979.2	457.4	417.2	40.23	11.370	
6,650.0	6,515.3	6,565.2	6,535.8	26.4	28.9	86.44	783.7	-982.6	450.4	410.0	40.49	11.124	
6,700.0	6,564.9	6,614.0	6,584.2	26.6	29.1	86.76	778.4	-986.0	444.0	403.2	40.75	10.895	
6,745.0	6,609.7	6,649.3	6,619.3	26.8	29.2	86.93	775.0	-988.2	438.7	397.7	41.01	10.699	
6,800.0	6,664.6	6,696.1	6,665.8	27.0	29.4	87.12	771.0	-990.7	433.3	392.0	41.30	10.490	
6,840.0	6,704.5	6,729.8	6,699.4	27.1	29.5	87.24	768.6	-992.1	430.0	388.5	41.51	10.358	
6,900.0	6,764.4	6,780.1	6,749.6	27.3	29.7	87.35	765.9	-993.7	426.2	384.4	41.82	10.192	
6,935.0	6,799.4	6,809.7	6,779.2	27.4	29.7	87.39	764.8	-994.4	424.6	382.6	41.99	10.113	
6,999.6	6,864.0	6,865.9	6,835.3	27.5	29.9	15.22	763.4	-995.0	422.8	380.6	42.28	10.002	
7,030.0	6,894.4	6,891.8	6,861.3	27.5	30.0	15.21	763.0	-995.1	422.5	380.1	42.38	9.968	
7,048.3	6,912.7	6,907.2	6,876.7	27.5	30.0	15.21	763.0	-995.2	422.4	380.0	42.44	9.953 CC, ES	
7,100.0	6,964.4	6,946.4	6,915.9	27.5	30.1	15.16	763.5	-995.4	423.0	380.4	42.58	9.934 SF	
7,125.0	6,989.4	6,961.2	6,930.7	27.5	30.2	15.10	764.2	-995.7	424.0	381.4	42.62	9.948	
7,200.0	7,064.4	7,005.4	6,974.5	27.6	30.3	14.74	768.7	-997.2	430.7	388.0	42.69	10.089	
7,220.0	7,084.4	7,017.0	6,986.0	27.6	30.3	14.61	770.4	-997.8	433.4	390.7	42.70	10.151	
7,300.0	7,164.4	7,064.6	7,032.6	27.6	30.5	13.93	780.0	-1,000.7	447.8	405.1	42.68	10.491	
7,315.0	7,179.4	7,081.0	7,048.4	27.6	30.5	13.66	784.0	-1,001.9	451.2	408.4	42.83	10.536	
7,400.0	7,264.4	7,128.0	7,093.1	27.6	30.6	12.76	798.1	-1,005.7	473.7	431.0	42.68	11.099	
7,410.0	7,274.4	7,128.0	7,093.1	27.6	30.6	12.76	798.1	-1,005.7	476.6	434.1	42.52	11.209	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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 Toolface (°)	Offset Wellbore Centre		Rule Assigned:		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,500.0	7,364.4	7,176.0	7,137.3	27.7	30.7	816.3	-1,009.8	508.2	465.9	42.27	12.022	
7,505.0	7,369.4	7,176.0	7,137.3	27.7	30.7	816.3	-1,009.8	510.1	467.9	42.18	12.092	
7,600.0	7,464.4	7,223.0	7,178.9	27.7	30.8	837.9	-1,013.5	551.0	509.2	41.81	13.179	
7,695.0	7,559.4	7,259.8	7,210.2	27.7	30.9	856.9	-1,016.4	598.0	556.9	41.13	14.540	
7,700.0	7,564.4	7,271.0	7,219.6	27.7	30.9	863.0	-1,017.3	600.8	559.4	41.38	14.519	
7,790.0	7,654.4	7,297.1	7,240.9	27.8	30.9	877.9	-1,019.3	650.4	609.9	40.53	16.048	
7,800.0	7,664.4	7,300.7	7,243.7	27.8	30.9	880.1	-1,019.6	656.3	615.8	40.46	16.220	
7,885.0	7,749.4	7,318.0	7,257.4	27.8	31.0	890.6	-1,020.7	708.3	668.8	39.54	17.914	
7,900.0	7,764.4	7,333.8	7,269.6	27.8	31.0	900.7	-1,021.5	717.6	677.8	39.78	18.038	
7,980.0	7,844.4	7,367.0	7,294.2	27.8	31.0	922.9	-1,022.2	770.4	730.9	39.54	19.483	
8,000.0	7,864.4	7,367.0	7,294.2	27.8	31.0	922.9	-1,022.2	783.9	744.7	39.25	19.974	
8,075.0	7,939.4	7,382.7	7,305.3	27.8	31.1	934.1	-1,022.3	836.4	797.7	38.66	21.636	
8,100.0	7,964.4	7,388.8	7,309.5	27.9	31.1	938.5	-1,022.3	854.4	815.9	38.50	22.190	
8,170.0	8,034.4	7,414.0	7,326.3	27.9	31.1	957.3	-1,022.2	906.1	867.7	38.35	23.625	
8,200.0	8,064.4	7,414.0	7,326.3	27.9	31.1	957.3	-1,022.2	928.6	890.6	38.01	24.431	
8,265.0	8,129.4	7,414.0	7,326.3	27.9	31.1	957.3	-1,022.2	978.6	941.3	37.32	26.225	
8,300.0	8,164.4	7,433.3	7,338.4	27.9	31.1	972.3	-1,022.3	1,005.8	968.3	37.49	26.831	
8,360.0	8,224.4	7,445.5	7,345.8	27.9	31.2	982.0	-1,022.5	1,053.3	1,016.1	37.25	28.276	
8,400.0	8,264.4	7,462.0	7,355.4	28.0	31.2	995.4	-1,023.0	1,085.6	1,048.3	37.34	29.078	
8,455.0	8,319.4	7,462.0	7,355.4	28.0	31.2	995.4	-1,023.0	1,130.3	1,093.4	36.97	30.573	
8,486.6	8,351.0	7,462.0	7,355.4	28.0	31.2	995.4	-1,023.0	1,156.4	1,119.7	36.78	31.440	
8,500.0	8,364.4	7,462.0	7,355.4	28.0	31.2	995.4	-1,023.0	1,167.6	1,131.0	36.69	31.823	
8,550.0	8,414.3	7,462.0	7,355.4	28.0	31.2	995.4	-1,023.0	1,211.3	1,174.9	36.42	33.254	
8,600.0	8,463.7	7,483.0	7,366.9	28.0	31.2	1,012.9	-1,024.0	1,256.6	1,219.9	36.74	34.203	
8,645.0	8,507.4	7,486.8	7,368.9	28.0	31.2	1,016.1	-1,024.2	1,299.2	1,262.5	36.73	35.374	
8,650.0	8,512.2	7,487.2	7,369.1	28.0	31.2	1,016.4	-1,024.2	1,304.0	1,267.3	36.73	35.504	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	14.07	14.07	1,039.5	260.5	1,072.3				
95.0	95.0	58.9	58.9	3.0	3.2	14.07	14.07	1,039.4	260.5	1,071.6	1,065.4	6.17	173.787	
100.0	100.0	64.0	64.0	3.0	3.2	14.07	14.07	1,039.4	260.5	1,071.6	1,065.4	6.20	172.962	
190.0	190.0	157.0	157.0	3.1	4.0	14.08	14.08	1,039.1	260.6	1,071.3	1,064.2	7.06	151.641	
200.0	200.0	167.3	167.3	3.1	4.1	14.08	14.08	1,039.0	260.7	1,071.2	1,064.0	7.19	148.936	
285.0	285.0	255.1	255.1	3.3	5.2	14.10	14.10	1,038.4	260.9	1,070.7	1,062.3	8.36	128.033	
300.0	300.0	270.6	270.6	3.3	5.4	14.11	14.11	1,038.3	260.9	1,070.6	1,062.0	8.59	124.643	
380.0	380.0	353.2	353.2	3.4	6.6	14.13	14.13	1,037.4	261.2	1,069.8	1,060.0	9.84	108.743	
400.0	400.0	373.9	373.9	3.4	6.9	14.14	14.14	1,037.1	261.3	1,069.6	1,059.5	10.16	105.243	
475.0	475.0	450.9	450.9	3.5	7.9	14.18	14.18	1,036.1	261.7	1,068.7	1,057.5	11.24	95.118	
500.0	500.0	476.1	476.1	3.5	8.1	14.19	14.19	1,035.7	261.8	1,068.4	1,056.9	11.45	93.272	
570.0	570.0	546.8	546.8	3.6	8.6	14.22	14.22	1,034.6	262.2	1,067.4	1,055.4	12.07	88.464	
600.0	600.0	577.1	577.1	3.6	8.8	14.23	14.23	1,034.2	262.3	1,067.0	1,054.7	12.33	86.527	
665.0	665.0	642.7	642.6	3.7	9.2	14.27	14.27	1,033.1	262.7	1,066.1	1,053.3	12.80	83.306	
700.0	700.0	677.9	677.8	3.8	9.4	14.28	14.28	1,032.5	262.8	1,065.6	1,052.6	12.95	82.300	
760.0	760.0	738.2	738.1	3.8	9.5	14.31	14.31	1,031.5	263.2	1,064.7	1,051.5	13.20	80.640	
800.0	800.0	778.4	778.3	3.9	9.7	14.33	14.33	1,030.8	263.4	1,064.1	1,050.7	13.37	79.560	
855.0	855.0	833.7	833.7	4.0	9.8	14.36	14.36	1,029.8	263.7	1,063.2	1,049.6	13.61	78.118	
900.0	900.0	879.1	879.0	4.0	10.0	14.39	14.39	1,029.0	264.0	1,062.5	1,048.7	13.81	76.959	
950.0	950.0	929.6	929.5	4.1	10.1	14.42	14.42	1,028.1	264.3	1,061.7	1,047.7	14.02	75.716	
1,000.0	1,000.0	980.0	979.9	4.1	10.3	14.45	14.45	1,027.2	264.6	1,060.9	1,046.6	14.24	74.501	
1,045.0	1,045.0	1,025.3	1,025.2	4.2	10.4	14.47	14.47	1,026.3	264.9	1,060.1	1,045.7	14.44	73.435	
1,100.0	1,100.0	1,080.7	1,080.5	4.2	10.6	14.50	14.50	1,025.2	265.1	1,059.1	1,044.5	14.68	72.162	
1,140.0	1,140.0	1,120.9	1,120.8	4.3	10.8	14.52	14.52	1,024.5	265.3	1,058.4	1,043.6	14.85	71.264	
1,200.0	1,200.0	1,181.4	1,181.2	4.4	11.0	14.55	14.55	1,023.3	265.6	1,057.4	1,042.2	15.12	69.951	
1,235.0	1,235.0	1,216.9	1,216.8	4.4	11.1	14.56	14.56	1,022.6	265.7	1,056.7	1,041.4	15.26	69.239	
1,300.0	1,300.0	1,283.0	1,282.9	4.5	11.3	14.59	14.59	1,021.2	265.7	1,055.5	1,039.9	15.53	67.942	
1,330.0	1,330.0	1,313.5	1,313.4	4.5	11.4	14.60	14.60	1,020.6	265.8	1,054.9	1,039.2	15.66	67.359	
1,400.0	1,400.0	1,385.2	1,385.0	4.6	11.6	14.61	14.61	1,019.1	265.7	1,053.4	1,037.4	15.96	66.020	
1,425.0	1,425.0	1,411.4	1,411.2	4.6	11.7	14.62	14.62	1,018.5	265.7	1,052.8	1,036.8	16.06	65.542	
1,500.0	1,500.0	1,490.0	1,489.8	4.7	12.0	14.65	14.65	1,016.4	265.7	1,051.0	1,034.6	16.39	64.129	
1,520.0	1,520.0	1,511.0	1,510.8	4.7	12.0	86.86	86.86	1,015.8	265.8	1,050.4	1,034.0	16.47	63.765	
1,600.0	1,600.0	1,585.3	1,585.0	4.8	12.2	87.04	87.04	1,013.7	266.1	1,048.2	1,031.4	16.74	62.600	
1,615.0	1,615.0	1,596.7	1,596.4	4.9	12.3	87.07	87.07	1,013.4	266.1	1,047.8	1,031.0	16.79	62.418	
1,700.0	1,699.8	1,662.8	1,662.5	5.0	12.4	87.30	87.30	1,012.8	266.1	1,046.8	1,029.8	17.03	61.453	
1,710.0	1,709.8	1,672.5	1,672.2	5.0	12.4	87.33	87.33	1,012.8	266.1	1,046.8	1,029.7	17.07	61.333	
1,800.0	1,799.5	1,759.6	1,759.3	5.3	12.5	87.75	87.75	1,012.9	265.9	1,046.5	1,029.2	17.36	60.276	
1,805.0	1,804.4	1,764.4	1,764.1	5.3	12.5	87.78	87.78	1,012.9	265.9	1,046.5	1,029.1	17.38	60.218	
1,874.4	1,873.4	1,831.4	1,831.1	5.5	12.6	88.21	88.21	1,013.2	266.0	1,046.4	1,028.8	17.61	59.427 CC	
1,900.0	1,898.7	1,856.2	1,855.9	5.6	12.7	88.40	88.40	1,013.3	266.0	1,046.5	1,028.8	17.70	59.129	
1,995.0	1,992.5	1,949.5	1,949.3	5.9	12.9	89.20	89.20	1,013.7	266.2	1,046.6	1,028.5	18.06	57.962	
2,000.0	1,997.5	1,954.4	1,954.2	5.9	12.9	89.24	89.24	1,013.7	266.2	1,046.6	1,028.5	18.08	57.902 ES	
2,090.0	2,085.8	2,042.3	2,042.1	6.2	13.1	90.15	90.15	1,014.1	266.6	1,047.0	1,028.6	18.43	56.820	
2,100.0	2,095.6	2,052.2	2,051.9	6.2	13.2	90.27	90.27	1,014.1	266.6	1,047.1	1,028.6	18.47	56.701	
2,185.0	2,178.5	2,135.5	2,135.2	6.5	13.4	91.27	91.27	1,014.5	266.9	1,047.8	1,029.0	18.82	55.688	
2,199.8	2,192.9	2,150.0	2,149.7	6.6	13.4	91.46	91.46	1,014.5	267.0	1,048.0	1,029.1	18.88	55.516	
2,280.0	2,270.7	2,228.2	2,228.0	6.8	13.6	92.50	92.50	1,014.8	267.2	1,049.0	1,029.8	19.22	54.585	
2,300.0	2,290.1	2,247.7	2,247.4	6.9	13.7	92.76	92.76	1,014.9	267.2	1,049.4	1,030.1	19.30	54.359	
2,375.0	2,362.9	2,320.6	2,320.3	7.2	13.9	93.72	93.72	1,015.2	267.4	1,050.8	1,031.1	19.63	53.522	
2,400.0	2,387.1	2,344.9	2,344.6	7.2	13.9	94.04	94.04	1,015.3	267.5	1,051.3	1,031.5	19.74	53.250	
2,470.0	2,455.0	2,412.9	2,412.7	7.5	14.1	94.94	94.94	1,015.5	267.7	1,053.0	1,032.9	20.06	52.501	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,500.0	2,484.1	2,442.2	2,441.9	7.6	14.2	95.33	1,015.6	267.8	1,053.8	1,033.6	20.19	52.203	
2,565.0	2,547.2	2,505.7	2,505.4	7.8	14.3	96.17	1,015.7	268.0	1,055.6	1,035.2	20.46	51.586	
2,600.0	2,581.2	2,539.9	2,539.6	7.9	14.4	96.62	1,015.8	268.1	1,056.7	1,036.1	20.61	51.263	
2,660.0	2,639.4	2,598.5	2,598.2	8.2	14.5	97.39	1,015.9	268.4	1,058.7	1,037.9	20.88	50.717	
2,700.0	2,678.2	2,637.6	2,637.3	8.3	14.6	97.90	1,016.0	268.5	1,060.2	1,039.1	21.06	50.345	
2,755.0	2,731.6	2,691.4	2,691.1	8.5	14.7	98.61	1,016.0	268.7	1,062.3	1,041.0	21.32	49.823	
2,800.0	2,775.2	2,735.4	2,735.2	8.7	14.9	99.18	1,016.1	268.8	1,064.1	1,042.6	21.54	49.407	
2,850.0	2,823.8	2,784.4	2,784.1	8.9	15.0	99.81	1,016.1	268.9	1,066.3	1,044.5	21.78	48.952	
2,900.0	2,872.3	2,833.0	2,832.8	9.1	15.1	100.43	1,016.2	268.9	1,068.5	1,046.5	22.06	48.438	
2,945.0	2,915.9	2,876.6	2,876.3	9.3	15.3	100.98	1,016.3	268.8	1,070.7	1,048.4	22.34	47.937	
3,000.0	2,969.3	2,929.8	2,929.5	9.5	15.5	101.65	1,016.4	268.8	1,073.5	1,050.8	22.67	47.345	
3,040.0	3,008.1	2,968.5	2,968.3	9.7	15.6	102.14	1,016.5	268.8	1,075.6	1,052.7	22.92	46.927	
3,100.0	3,066.3	3,026.8	3,026.5	9.9	15.8	102.86	1,016.7	268.7	1,078.9	1,055.6	23.29	46.323	
3,135.0	3,100.3	3,060.8	3,060.5	10.1	16.0	103.28	1,016.8	268.6	1,081.0	1,057.4	23.51	45.982	
3,200.0	3,163.4	3,124.0	3,123.7	10.3	16.2	104.06	1,017.0	268.6	1,084.9	1,061.0	23.91	45.370	
3,230.0	3,192.5	3,153.1	3,152.9	10.5	16.3	104.42	1,017.0	268.5	1,086.8	1,062.7	24.10	45.096	
3,300.0	3,260.4	3,221.2	3,220.9	10.8	16.5	105.25	1,017.2	268.4	1,091.3	1,066.8	24.54	44.476	
3,325.0	3,284.7	3,245.5	3,245.3	10.9	16.6	105.54	1,017.3	268.4	1,093.0	1,068.3	24.69	44.261	
3,400.0	3,357.4	3,318.5	3,318.2	11.2	16.9	106.42	1,017.4	268.3	1,098.2	1,073.1	25.17	43.635	
3,420.0	3,376.8	3,337.9	3,337.7	11.3	16.9	106.66	1,017.5	268.3	1,099.7	1,074.4	25.30	43.473	
3,500.0	3,454.5	3,416.2	3,415.9	11.6	17.2	107.60	1,017.6	268.3	1,105.6	1,079.8	25.76	42.927	
3,515.0	3,469.0	3,431.0	3,430.7	11.7	17.2	107.77	1,017.6	268.2	1,106.7	1,080.9	25.83	42.842	
3,600.0	3,551.5	3,514.7	3,514.4	12.1	17.4	108.77	1,017.6	268.2	1,113.3	1,087.1	26.28	42.372	
3,610.0	3,561.2	3,524.5	3,524.2	12.1	17.4	108.88	1,017.6	268.2	1,114.1	1,087.8	26.33	42.317	
3,700.0	3,648.5	3,612.4	3,612.1	12.5	17.6	109.91	1,017.5	268.2	1,121.4	1,094.6	26.82	41.814	
3,705.0	3,653.4	3,617.2	3,617.0	12.5	17.6	109.97	1,017.5	268.2	1,121.9	1,095.0	26.85	41.785	
3,800.0	3,745.6	3,709.3	3,709.0	13.0	17.9	111.03	1,017.4	268.1	1,130.0	1,102.6	27.39	41.249	
3,895.0	3,837.7	3,801.9	3,801.7	13.4	18.1	112.09	1,017.3	267.9	1,138.5	1,110.6	27.95	40.735	
3,900.0	3,842.6	3,806.8	3,806.6	13.4	18.1	112.14	1,017.3	267.9	1,139.0	1,111.0	27.98	40.708	
3,990.0	3,929.9	3,895.2	3,894.9	13.8	18.4	113.13	1,017.2	267.8	1,147.4	1,118.9	28.51	40.238	
4,000.0	3,939.6	3,905.0	3,904.7	13.9	18.4	113.24	1,017.2	267.7	1,148.3	1,119.7	28.57	40.186	
4,085.0	4,022.1	3,988.3	3,988.0	14.3	18.6	114.17	1,017.0	267.6	1,156.5	1,127.4	29.10	39.738	
4,100.0	4,036.6	4,003.0	4,002.7	14.3	18.7	114.33	1,017.0	267.5	1,158.0	1,128.8	29.20	39.657	
4,180.0	4,114.3	4,081.3	4,081.0	14.7	18.9	115.18	1,016.8	267.3	1,166.0	1,136.3	29.72	39.232	
4,200.0	4,133.7	4,100.9	4,100.6	14.8	19.0	115.39	1,016.7	267.2	1,168.0	1,138.2	29.85	39.127	
4,275.0	4,206.5	4,174.0	4,173.7	15.1	19.2	116.17	1,016.5	267.0	1,175.8	1,145.4	30.35	38.745	
4,300.0	4,230.7	4,198.3	4,198.0	15.3	19.3	116.43	1,016.5	266.9	1,178.4	1,147.9	30.51	38.622	
4,370.0	4,298.6	4,266.3	4,266.0	15.6	19.5	117.14	1,016.3	266.7	1,185.9	1,154.9	30.98	38.282	
4,400.0	4,327.7	4,295.4	4,295.1	15.7	19.6	117.44	1,016.2	266.6	1,189.2	1,158.0	31.18	38.139	
4,465.0	4,390.8	4,358.3	4,358.0	16.0	19.7	118.09	1,016.0	266.3	1,196.4	1,164.7	31.62	37.836	
4,500.0	4,424.8	4,391.9	4,391.7	16.2	19.8	118.44	1,015.9	266.2	1,200.3	1,168.5	31.86	37.677	
4,560.0	4,483.0	4,449.7	4,449.4	16.5	20.0	119.02	1,015.8	266.1	1,207.2	1,175.0	32.27	37.410	
4,600.0	4,521.8	4,488.2	4,487.9	16.6	20.1	119.41	1,015.7	266.0	1,211.9	1,179.4	32.55	37.236	
4,655.0	4,575.2	4,541.4	4,541.1	16.9	20.3	119.94	1,015.6	265.8	1,218.5	1,185.5	32.93	37.000	
4,700.0	4,618.8	4,585.5	4,585.2	17.1	20.4	120.38	1,015.5	265.7	1,223.9	1,190.7	33.25	36.811	
4,750.0	4,667.4	4,634.5	4,634.2	17.3	20.6	120.85	1,015.4	265.5	1,230.0	1,196.4	33.60	36.604	
4,800.0	4,715.9	4,683.5	4,683.2	17.6	20.7	121.33	1,015.3	265.4	1,236.2	1,202.2	33.96	36.399	
4,845.0	4,759.5	4,726.9	4,726.7	17.8	20.9	121.74	1,015.2	265.2	1,241.8	1,207.5	34.28	36.229	
4,900.0	4,812.9	4,778.8	4,778.5	18.0	21.0	122.24	1,015.1	265.0	1,248.8	1,214.2	34.64	36.051	
4,940.0	4,851.7	4,816.4	4,816.1	18.2	21.1	122.59	1,015.1	264.9	1,254.0	1,219.1	34.91	35.925	
5,000.0	4,909.9	4,872.9	4,872.6	18.5	21.2	123.11	1,015.1	264.8	1,262.0	1,226.7	35.31	35.742	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 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	Vertical	Offset	Semi Major Axis		Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Depth	Depth	Depth	Reference	Offset		+N/-S	+E/-W	Between	Between					
(usft)	(usft)	(usft)	(usft)	(usft)	Toolface	(usft)	(usft)	Centres	Ellipses	Separation	Factor			
					(°)			(usft)	(usft)	(usft)				
5,035.0	4,943.9	4,905.9	4,905.6	18.7	21.3	123.42	1,015.1	264.8	1,266.7	1,231.2	35.54	35.639		
5,100.0	5,007.0	4,967.8	4,967.5	19.0	21.5	123.98	1,015.2	264.8	1,275.7	1,239.7	36.00	35.439		
5,130.0	5,036.1	4,997.0	4,996.7	19.1	21.6	124.25	1,015.2	264.8	1,279.9	1,243.6	36.21	35.347		
5,200.0	5,104.0	5,091.3	5,091.0	19.5	22.1	125.17	1,013.2	265.3	1,289.1	1,252.0	37.05	34.795		
5,225.0	5,128.3	5,127.9	5,127.5	19.6	22.3	125.58	1,011.2	265.7	1,292.0	1,254.6	37.45	34.502		
5,300.0	5,201.0	5,220.4	5,219.6	19.9	22.9	126.70	1,003.0	267.1	1,299.9	1,261.5	38.38	33.869		
5,320.0	5,220.4	5,239.6	5,238.8	20.0	23.0	126.94	1,001.1	267.4	1,302.0	1,263.5	38.54	33.785		
5,400.0	5,298.1	5,317.8	5,316.5	20.4	23.2	127.91	993.3	268.7	1,310.5	1,271.3	39.17	33.461		
5,415.0	5,312.6	5,332.8	5,331.5	20.5	23.2	128.10	991.8	268.9	1,312.1	1,272.8	39.28	33.402 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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3155ft @ 3187.0usft

Offset Depths are relative to Offset Datum

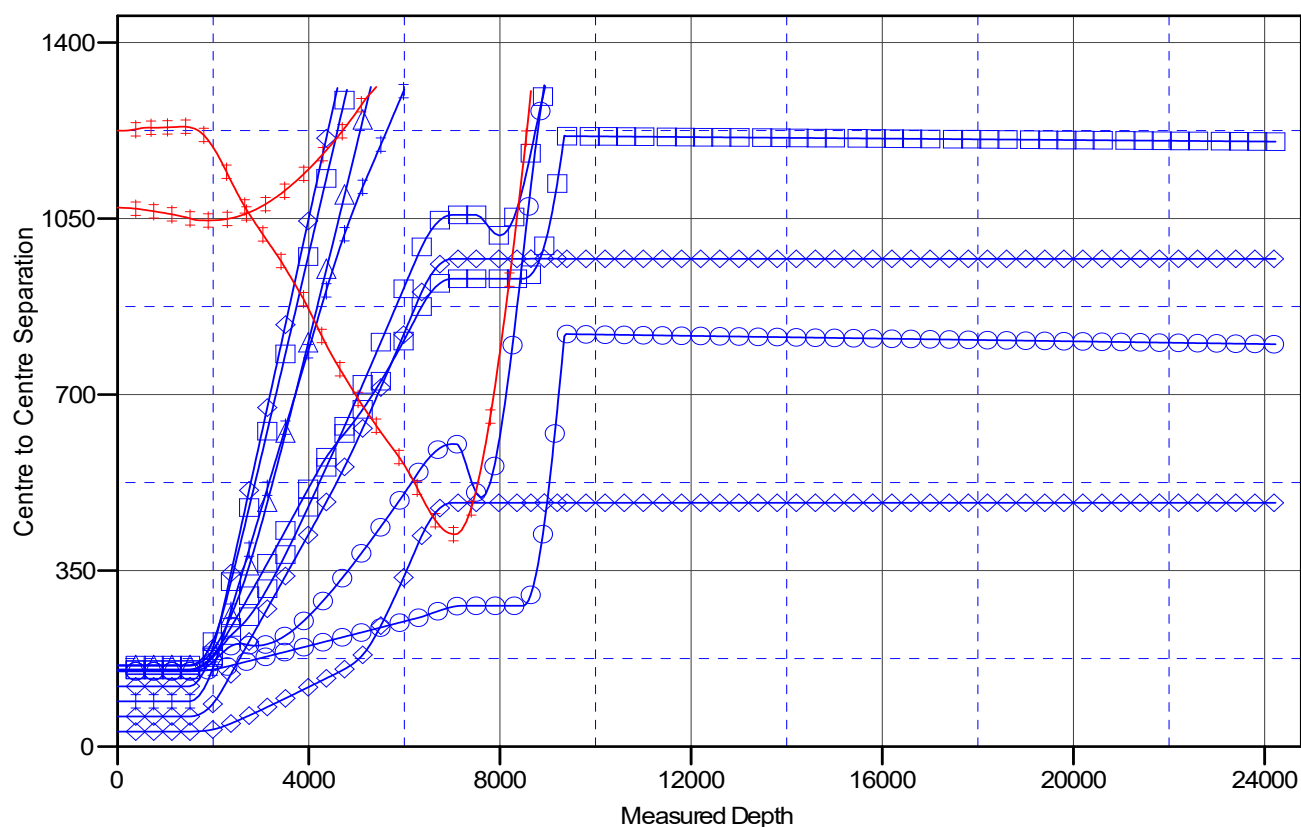
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #710H

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 #709H, 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 #710H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 3155ft @ 3187.0usft

Offset Depths are relative to Offset Datum

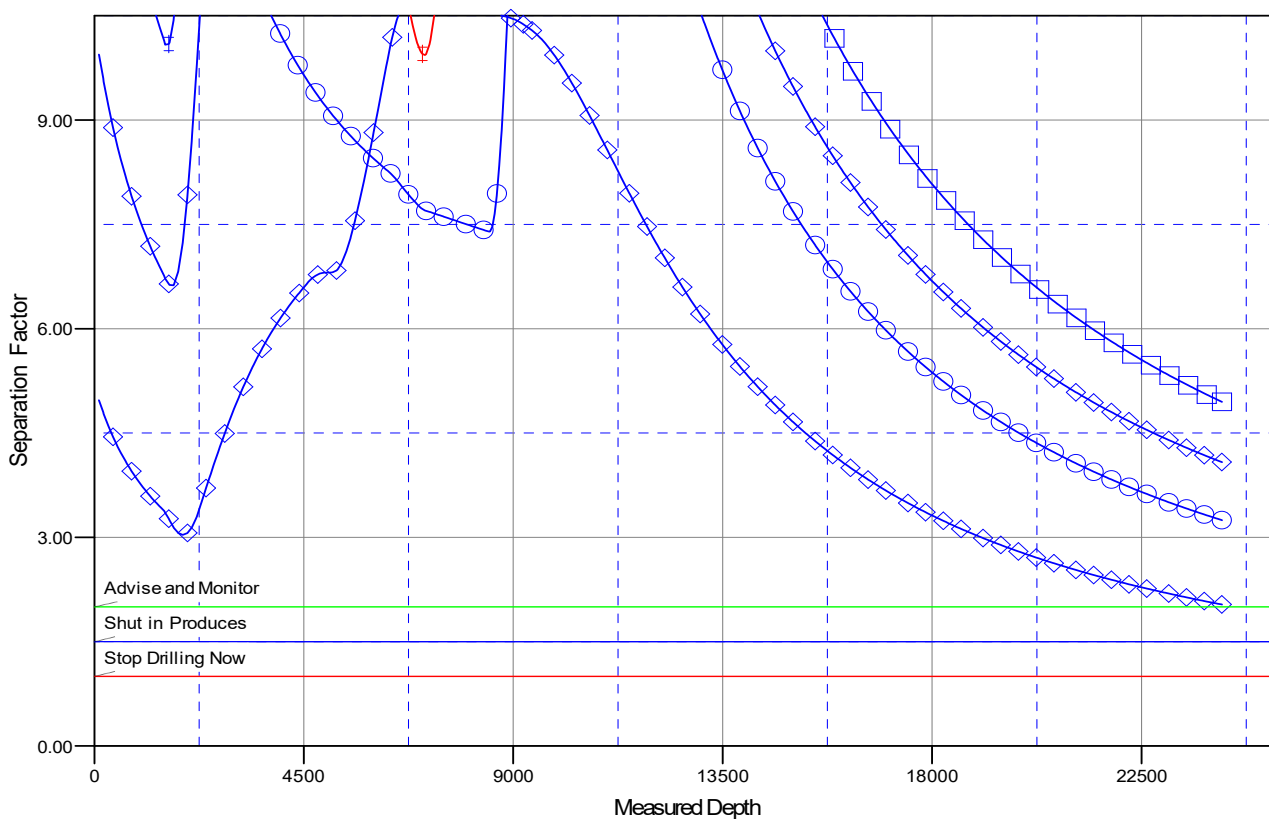
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #710H

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 #709H, 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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #710H

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 #710H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #710H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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

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

Well	FLAMING SNAIL FEDERAL COM #710H		
Well Position	+N/-S	-644.2 usft	Northing:
	+E/-W	1,695.6 usft	Easting:
Position Uncertainty	3.0 usft	Wellhead Elevation:	
		Latitude:	32° 6' 22.245 N
		Longitude:	104° 11' 51.599 W
		Ground Level:	3,155.0 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,314.23833212

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	184.72

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	8,486.6 PWP1 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5		
3	8,486.6	24,229.3 PWP1 (OWB)	r.5 MWD+IFR1+MS OWSG MWD + IFR1 + Multi-St		

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #710H	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	
2,199.8	14.00	287.81	2,192.9	26.0	-81.0	2.00	2.00	0.00	287.81	
6,299.8	14.00	287.81	6,171.1	329.4	-1,025.0	0.00	0.00	0.00	0.00	
6,999.6	0.00	0.01	6,864.0	355.4	-1,106.0	2.00	-2.00	0.00	180.00	
8,486.6	0.00	0.01	8,351.0	355.4	-1,106.0	0.00	0.00	0.00	0.00	
9,385.6	89.89	180.51	8,924.0	-216.5	-1,111.1	10.00	10.00	-19.97	180.51	
24,099.3	89.89	180.51	8,951.8	-14,929.6	-1,241.9	0.00	0.00	0.00	0.00	LTP (FLAMING SNAII
24,229.3	89.89	180.51	8,952.0	-15,059.6	-1,243.1	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 #710H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #710H	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	287.81	1,600.0	0.5	-1.7	-0.4	2.00	2.00	0.00
1,700.0	4.00	287.81	1,699.8	2.1	-6.6	-1.6	2.00	2.00	0.00
1,800.0	6.00	287.81	1,799.5	4.8	-14.9	-3.6	2.00	2.00	0.00
1,900.0	8.00	287.81	1,898.7	8.5	-26.5	-6.3	2.00	2.00	0.00
2,000.0	10.00	287.81	1,997.5	13.3	-41.4	-9.9	2.00	2.00	0.00
2,100.0	12.00	287.81	2,095.6	19.2	-59.6	-14.2	2.00	2.00	0.00
2,199.8	14.00	287.81	2,192.9	26.0	-81.0	-19.3	2.00	2.00	0.00
Start 4100.0 hold at 2199.8 MD									
2,300.0	14.00	287.81	2,290.1	33.4	-104.0	-24.8	0.00	0.00	0.00
2,400.0	14.00	287.81	2,387.1	40.8	-127.1	-30.2	0.00	0.00	0.00
2,500.0	14.00	287.81	2,484.1	48.2	-150.1	-35.7	0.00	0.00	0.00
2,600.0	14.00	287.81	2,581.2	55.6	-173.1	-41.2	0.00	0.00	0.00
2,700.0	14.00	287.81	2,678.2	63.0	-196.1	-46.7	0.00	0.00	0.00
2,800.0	14.00	287.81	2,775.2	70.4	-219.2	-52.2	0.00	0.00	0.00
2,900.0	14.00	287.81	2,872.3	77.8	-242.2	-57.6	0.00	0.00	0.00
3,000.0	14.00	287.81	2,969.3	85.2	-265.2	-63.1	0.00	0.00	0.00
3,100.0	14.00	287.81	3,066.3	92.6	-288.2	-68.6	0.00	0.00	0.00
3,200.0	14.00	287.81	3,163.4	100.0	-311.3	-74.1	0.00	0.00	0.00
3,300.0	14.00	287.81	3,260.4	107.4	-334.3	-79.6	0.00	0.00	0.00
3,400.0	14.00	287.81	3,357.4	114.8	-357.3	-85.0	0.00	0.00	0.00
3,500.0	14.00	287.81	3,454.5	122.2	-380.4	-90.5	0.00	0.00	0.00
3,600.0	14.00	287.81	3,551.5	129.6	-403.4	-96.0	0.00	0.00	0.00
3,700.0	14.00	287.81	3,648.5	137.0	-426.4	-101.5	0.00	0.00	0.00
3,800.0	14.00	287.81	3,745.6	144.4	-449.4	-107.0	0.00	0.00	0.00
3,900.0	14.00	287.81	3,842.6	151.8	-472.5	-112.4	0.00	0.00	0.00
4,000.0	14.00	287.81	3,939.6	159.2	-495.5	-117.9	0.00	0.00	0.00
4,100.0	14.00	287.81	4,036.6	166.6	-518.5	-123.4	0.00	0.00	0.00
4,200.0	14.00	287.81	4,133.7	174.0	-541.5	-128.9	0.00	0.00	0.00
4,300.0	14.00	287.81	4,230.7	181.4	-564.6	-134.4	0.00	0.00	0.00
4,400.0	14.00	287.81	4,327.7	188.8	-587.6	-139.8	0.00	0.00	0.00
4,500.0	14.00	287.81	4,424.8	196.2	-610.6	-145.3	0.00	0.00	0.00
4,600.0	14.00	287.81	4,521.8	203.6	-633.6	-150.8	0.00	0.00	0.00
4,700.0	14.00	287.81	4,618.8	211.0	-656.7	-156.3	0.00	0.00	0.00
4,800.0	14.00	287.81	4,715.9	218.4	-679.7	-161.8	0.00	0.00	0.00
4,900.0	14.00	287.81	4,812.9	225.8	-702.7	-167.2	0.00	0.00	0.00
5,000.0	14.00	287.81	4,909.9	233.2	-725.7	-172.7	0.00	0.00	0.00
5,100.0	14.00	287.81	5,007.0	240.6	-748.8	-178.2	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #710H	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)
5,200.0	14.00	287.81	5,104.0	248.0	-771.8	-183.7	0.00	0.00	0.00
5,300.0	14.00	287.81	5,201.0	255.4	-794.8	-189.2	0.00	0.00	0.00
5,400.0	14.00	287.81	5,298.1	262.8	-817.8	-194.6	0.00	0.00	0.00
5,500.0	14.00	287.81	5,395.1	270.2	-840.9	-200.1	0.00	0.00	0.00
5,600.0	14.00	287.81	5,492.1	277.6	-863.9	-205.6	0.00	0.00	0.00
5,700.0	14.00	287.81	5,589.1	285.0	-886.9	-211.1	0.00	0.00	0.00
5,800.0	14.00	287.81	5,686.2	292.4	-909.9	-216.6	0.00	0.00	0.00
5,900.0	14.00	287.81	5,783.2	299.8	-933.0	-222.0	0.00	0.00	0.00
6,000.0	14.00	287.81	5,880.2	307.2	-956.0	-227.5	0.00	0.00	0.00
6,100.0	14.00	287.81	5,977.3	314.6	-979.0	-233.0	0.00	0.00	0.00
6,200.0	14.00	287.81	6,074.3	322.0	-1,002.1	-238.5	0.00	0.00	0.00
6,299.8	14.00	287.81	6,171.1	329.4	-1,025.0	-243.9	0.00	0.00	0.00
Start Drop -2.00									
6,400.0	11.99	287.81	6,268.8	336.3	-1,046.5	-249.0	2.00	-2.00	0.00
6,500.0	9.99	287.81	6,366.9	342.1	-1,064.6	-253.4	2.00	-2.00	0.00
6,600.0	7.99	287.81	6,465.7	346.9	-1,079.5	-256.9	2.00	-2.00	0.00
6,700.0	5.99	287.81	6,564.9	350.6	-1,091.1	-259.7	2.00	-2.00	0.00
6,800.0	3.99	287.81	6,664.6	353.3	-1,099.4	-261.6	2.00	-2.00	0.00
6,900.0	1.99	287.81	6,764.4	354.9	-1,104.4	-262.8	2.00	-2.00	0.00
6,999.6	0.00	0.00	6,864.0	355.4	-1,106.0	-263.2	2.00	-2.00	72.48
Start 1487.0 hold at 6999.6 MD									
7,100.0	0.00	0.00	6,964.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
7,200.0	0.00	0.00	7,064.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,164.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,264.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,364.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,464.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,564.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,664.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,764.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,864.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
8,100.0	0.00	0.00	7,964.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,064.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,164.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,264.4	355.4	-1,106.0	-263.2	0.00	0.00	0.00
8,486.6	0.00	0.00	8,351.0	355.4	-1,106.0	-263.2	0.00	0.00	0.00
Start DLS 10.00 TFO 180.51									
8,500.0	1.34	180.51	8,364.4	355.2	-1,106.0	-263.1	10.00	10.00	0.00
8,550.0	6.34	180.51	8,414.3	351.9	-1,106.0	-259.7	10.00	10.00	0.00
8,600.0	11.34	180.51	8,463.7	344.2	-1,106.1	-252.1	10.00	10.00	0.00
8,650.0	16.34	180.51	8,512.2	332.3	-1,106.2	-240.1	10.00	10.00	0.00
8,700.0	21.34	180.51	8,559.5	316.1	-1,106.3	-224.0	10.00	10.00	0.00
8,750.0	26.34	180.51	8,605.2	295.9	-1,106.5	-203.9	10.00	10.00	0.00
8,800.0	31.34	180.51	8,649.0	271.8	-1,106.7	-179.9	10.00	10.00	0.00
8,850.0	36.34	180.51	8,690.5	244.0	-1,107.0	-152.1	10.00	10.00	0.00
8,900.0	41.34	180.51	8,729.5	212.7	-1,107.3	-120.8	10.00	10.00	0.00
8,950.0	46.34	180.51	8,765.5	178.0	-1,107.6	-86.3	10.00	10.00	0.00
9,000.0	51.34	180.51	8,798.4	140.4	-1,107.9	-48.8	10.00	10.00	0.00
9,050.0	56.34	180.51	8,827.9	100.1	-1,108.3	-8.5	10.00	10.00	0.00
9,100.0	61.34	180.51	8,853.8	57.3	-1,108.7	34.1	10.00	10.00	0.00
9,150.0	66.34	180.51	8,875.8	12.4	-1,109.0	78.9	10.00	10.00	0.00
9,200.0	71.34	180.51	8,893.9	-34.2	-1,109.5	125.3	10.00	10.00	0.00
9,250.0	76.34	180.51	8,907.8	-82.2	-1,109.9	173.2	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #710H	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)
9,300.0	81.34	180.51	8,917.5	-131.2	-1,110.3	222.1	10.00	10.00	0.00
9,350.0	86.34	180.51	8,922.8	-180.9	-1,110.8	271.7	10.00	10.00	0.00
9,385.6	89.89	180.51	8,924.0	-216.5	-1,111.1	307.1	10.00	10.00	0.00
Start 14713.8 hold at 9385.6 MD									
9,400.0	89.89	180.51	8,924.0	-230.9	-1,111.2	321.5	0.00	0.00	0.00
9,500.0	89.89	180.51	8,924.2	-330.9	-1,112.1	421.3	0.00	0.00	0.00
9,600.0	89.89	180.51	8,924.4	-430.9	-1,113.0	521.0	0.00	0.00	0.00
9,700.0	89.89	180.51	8,924.6	-530.9	-1,113.9	620.7	0.00	0.00	0.00
9,800.0	89.89	180.51	8,924.8	-630.9	-1,114.8	720.4	0.00	0.00	0.00
9,900.0	89.89	180.51	8,925.0	-730.9	-1,115.7	820.2	0.00	0.00	0.00
10,000.0	89.89	180.51	8,925.2	-830.9	-1,116.5	919.9	0.00	0.00	0.00
10,100.0	89.89	180.51	8,925.3	-930.9	-1,117.4	1,019.6	0.00	0.00	0.00
10,200.0	89.89	180.51	8,925.5	-1,030.9	-1,118.3	1,119.4	0.00	0.00	0.00
10,300.0	89.89	180.51	8,925.7	-1,130.9	-1,119.2	1,219.1	0.00	0.00	0.00
10,400.0	89.89	180.51	8,925.9	-1,230.9	-1,120.1	1,318.8	0.00	0.00	0.00
10,500.0	89.89	180.51	8,926.1	-1,330.8	-1,121.0	1,418.6	0.00	0.00	0.00
10,600.0	89.89	180.51	8,926.3	-1,430.8	-1,121.9	1,518.3	0.00	0.00	0.00
10,700.0	89.89	180.51	8,926.5	-1,530.8	-1,122.8	1,618.0	0.00	0.00	0.00
10,800.0	89.89	180.51	8,926.7	-1,630.8	-1,123.7	1,717.7	0.00	0.00	0.00
10,900.0	89.89	180.51	8,926.9	-1,730.8	-1,124.5	1,817.5	0.00	0.00	0.00
11,000.0	89.89	180.51	8,927.0	-1,830.8	-1,125.4	1,917.2	0.00	0.00	0.00
11,100.0	89.89	180.51	8,927.2	-1,930.8	-1,126.3	2,016.9	0.00	0.00	0.00
11,200.0	89.89	180.51	8,927.4	-2,030.8	-1,127.2	2,116.7	0.00	0.00	0.00
11,300.0	89.89	180.51	8,927.6	-2,130.8	-1,128.1	2,216.4	0.00	0.00	0.00
11,400.0	89.89	180.51	8,927.8	-2,230.8	-1,129.0	2,316.1	0.00	0.00	0.00
11,500.0	89.89	180.51	8,928.0	-2,330.8	-1,129.9	2,415.9	0.00	0.00	0.00
11,600.0	89.89	180.51	8,928.2	-2,430.8	-1,130.8	2,515.6	0.00	0.00	0.00
11,700.0	89.89	180.51	8,928.4	-2,530.8	-1,131.7	2,615.3	0.00	0.00	0.00
11,800.0	89.89	180.51	8,928.6	-2,630.8	-1,132.6	2,715.0	0.00	0.00	0.00
11,900.0	89.89	180.51	8,928.7	-2,730.8	-1,133.4	2,814.8	0.00	0.00	0.00
12,000.0	89.89	180.51	8,928.9	-2,830.8	-1,134.3	2,914.5	0.00	0.00	0.00
12,100.0	89.89	180.51	8,929.1	-2,930.8	-1,135.2	3,014.2	0.00	0.00	0.00
12,200.0	89.89	180.51	8,929.3	-3,030.8	-1,136.1	3,114.0	0.00	0.00	0.00
12,300.0	89.89	180.51	8,929.5	-3,130.8	-1,137.0	3,213.7	0.00	0.00	0.00
12,400.0	89.89	180.51	8,929.7	-3,230.8	-1,137.9	3,313.4	0.00	0.00	0.00
12,500.0	89.89	180.51	8,929.9	-3,330.8	-1,138.8	3,413.2	0.00	0.00	0.00
12,600.0	89.89	180.51	8,930.1	-3,430.8	-1,139.7	3,512.9	0.00	0.00	0.00
12,700.0	89.89	180.51	8,930.3	-3,530.8	-1,140.6	3,612.6	0.00	0.00	0.00
12,800.0	89.89	180.51	8,930.4	-3,630.8	-1,141.4	3,712.3	0.00	0.00	0.00
12,900.0	89.89	180.51	8,930.6	-3,730.8	-1,142.3	3,812.1	0.00	0.00	0.00
13,000.0	89.89	180.51	8,930.8	-3,830.7	-1,143.2	3,911.8	0.00	0.00	0.00
13,100.0	89.89	180.51	8,931.0	-3,930.7	-1,144.1	4,011.5	0.00	0.00	0.00
13,200.0	89.89	180.51	8,931.2	-4,030.7	-1,145.0	4,111.3	0.00	0.00	0.00
13,300.0	89.89	180.51	8,931.4	-4,130.7	-1,145.9	4,211.0	0.00	0.00	0.00
13,400.0	89.89	180.51	8,931.6	-4,230.7	-1,146.8	4,310.7	0.00	0.00	0.00
13,500.0	89.89	180.51	8,931.8	-4,330.7	-1,147.7	4,410.5	0.00	0.00	0.00
13,600.0	89.89	180.51	8,931.9	-4,430.7	-1,148.6	4,510.2	0.00	0.00	0.00
13,700.0	89.89	180.51	8,932.1	-4,530.7	-1,149.4	4,609.9	0.00	0.00	0.00
13,800.0	89.89	180.51	8,932.3	-4,630.7	-1,150.3	4,709.7	0.00	0.00	0.00
13,900.0	89.89	180.51	8,932.5	-4,730.7	-1,151.2	4,809.4	0.00	0.00	0.00
14,000.0	89.89	180.51	8,932.7	-4,830.7	-1,152.1	4,909.1	0.00	0.00	0.00
14,100.0	89.89	180.51	8,932.9	-4,930.7	-1,153.0	5,008.8	0.00	0.00	0.00
14,200.0	89.89	180.51	8,933.1	-5,030.7	-1,153.9	5,108.6	0.00	0.00	0.00
14,300.0	89.89	180.51	8,933.3	-5,130.7	-1,154.8	5,208.3	0.00	0.00	0.00

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #710H	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)
14,400.0	89.89	180.51	8,933.5	-5,230.7	-1,155.7	5,308.0	0.00	0.00	0.00
14,500.0	89.89	180.51	8,933.6	-5,330.7	-1,156.6	5,407.8	0.00	0.00	0.00
14,600.0	89.89	180.51	8,933.8	-5,430.7	-1,157.4	5,507.5	0.00	0.00	0.00
14,700.0	89.89	180.51	8,934.0	-5,530.7	-1,158.3	5,607.2	0.00	0.00	0.00
14,800.0	89.89	180.51	8,934.2	-5,630.7	-1,159.2	5,707.0	0.00	0.00	0.00
14,900.0	89.89	180.51	8,934.4	-5,730.7	-1,160.1	5,806.7	0.00	0.00	0.00
15,000.0	89.89	180.51	8,934.6	-5,830.7	-1,161.0	5,906.4	0.00	0.00	0.00
15,100.0	89.89	180.51	8,934.8	-5,930.7	-1,161.9	6,006.1	0.00	0.00	0.00
15,200.0	89.89	180.51	8,935.0	-6,030.7	-1,162.8	6,105.9	0.00	0.00	0.00
15,300.0	89.89	180.51	8,935.2	-6,130.7	-1,163.7	6,205.6	0.00	0.00	0.00
15,400.0	89.89	180.51	8,935.3	-6,230.6	-1,164.6	6,305.3	0.00	0.00	0.00
15,500.0	89.89	180.51	8,935.5	-6,330.6	-1,165.4	6,405.1	0.00	0.00	0.00
15,600.0	89.89	180.51	8,935.7	-6,430.6	-1,166.3	6,504.8	0.00	0.00	0.00
15,700.0	89.89	180.51	8,935.9	-6,530.6	-1,167.2	6,604.5	0.00	0.00	0.00
15,800.0	89.89	180.51	8,936.1	-6,630.6	-1,168.1	6,704.3	0.00	0.00	0.00
15,900.0	89.89	180.51	8,936.3	-6,730.6	-1,169.0	6,804.0	0.00	0.00	0.00
16,000.0	89.89	180.51	8,936.5	-6,830.6	-1,169.9	6,903.7	0.00	0.00	0.00
16,100.0	89.89	180.51	8,936.7	-6,930.6	-1,170.8	7,003.4	0.00	0.00	0.00
16,200.0	89.89	180.51	8,936.9	-7,030.6	-1,171.7	7,103.2	0.00	0.00	0.00
16,300.0	89.89	180.51	8,937.0	-7,130.6	-1,172.6	7,202.9	0.00	0.00	0.00
16,400.0	89.89	180.51	8,937.2	-7,230.6	-1,173.4	7,302.6	0.00	0.00	0.00
16,500.0	89.89	180.51	8,937.4	-7,330.6	-1,174.3	7,402.4	0.00	0.00	0.00
16,600.0	89.89	180.51	8,937.6	-7,430.6	-1,175.2	7,502.1	0.00	0.00	0.00
16,700.0	89.89	180.51	8,937.8	-7,530.6	-1,176.1	7,601.8	0.00	0.00	0.00
16,800.0	89.89	180.51	8,938.0	-7,630.6	-1,177.0	7,701.6	0.00	0.00	0.00
16,900.0	89.89	180.51	8,938.2	-7,730.6	-1,177.9	7,801.3	0.00	0.00	0.00
17,000.0	89.89	180.51	8,938.4	-7,830.6	-1,178.8	7,901.0	0.00	0.00	0.00
17,100.0	89.89	180.51	8,938.6	-7,930.6	-1,179.7	8,000.7	0.00	0.00	0.00
17,200.0	89.89	180.51	8,938.7	-8,030.6	-1,180.6	8,100.5	0.00	0.00	0.00
17,300.0	89.89	180.51	8,938.9	-8,130.6	-1,181.4	8,200.2	0.00	0.00	0.00
17,400.0	89.89	180.51	8,939.1	-8,230.6	-1,182.3	8,299.9	0.00	0.00	0.00
17,500.0	89.89	180.51	8,939.3	-8,330.6	-1,183.2	8,399.7	0.00	0.00	0.00
17,600.0	89.89	180.51	8,939.5	-8,430.6	-1,184.1	8,499.4	0.00	0.00	0.00
17,700.0	89.89	180.51	8,939.7	-8,530.6	-1,185.0	8,599.1	0.00	0.00	0.00
17,800.0	89.89	180.51	8,939.9	-8,630.5	-1,185.9	8,698.9	0.00	0.00	0.00
17,900.0	89.89	180.51	8,940.1	-8,730.5	-1,186.8	8,798.6	0.00	0.00	0.00
18,000.0	89.89	180.51	8,940.2	-8,830.5	-1,187.7	8,898.3	0.00	0.00	0.00
18,100.0	89.89	180.51	8,940.4	-8,930.5	-1,188.6	8,998.0	0.00	0.00	0.00
18,200.0	89.89	180.51	8,940.6	-9,030.5	-1,189.5	9,097.8	0.00	0.00	0.00
18,300.0	89.89	180.51	8,940.8	-9,130.5	-1,190.3	9,197.5	0.00	0.00	0.00
18,400.0	89.89	180.51	8,941.0	-9,230.5	-1,191.2	9,297.2	0.00	0.00	0.00
18,500.0	89.89	180.51	8,941.2	-9,330.5	-1,192.1	9,397.0	0.00	0.00	0.00
18,600.0	89.89	180.51	8,941.4	-9,430.5	-1,193.0	9,496.7	0.00	0.00	0.00
18,700.0	89.89	180.51	8,941.6	-9,530.5	-1,193.9	9,596.4	0.00	0.00	0.00
18,800.0	89.89	180.51	8,941.8	-9,630.5	-1,194.8	9,696.2	0.00	0.00	0.00
18,900.0	89.89	180.51	8,941.9	-9,730.5	-1,195.7	9,795.9	0.00	0.00	0.00
19,000.0	89.89	180.51	8,942.1	-9,830.5	-1,196.6	9,895.6	0.00	0.00	0.00
19,100.0	89.89	180.51	8,942.3	-9,930.5	-1,197.5	9,995.3	0.00	0.00	0.00
19,200.0	89.89	180.51	8,942.5	-10,030.5	-1,198.3	10,095.1	0.00	0.00	0.00
19,300.0	89.89	180.51	8,942.7	-10,130.5	-1,199.2	10,194.8	0.00	0.00	0.00
19,400.0	89.89	180.51	8,942.9	-10,230.5	-1,200.1	10,294.5	0.00	0.00	0.00
19,500.0	89.89	180.51	8,943.1	-10,330.5	-1,201.0	10,394.3	0.00	0.00	0.00
19,600.0	89.89	180.51	8,943.3	-10,430.5	-1,201.9	10,494.0	0.00	0.00	0.00
19,700.0	89.89	180.51	8,943.5	-10,530.5	-1,202.8	10,593.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #710H	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)
19,800.0	89.89	180.51	8,943.6	-10,630.5	-1,203.7	10,693.5	0.00	0.00	0.00
19,900.0	89.89	180.51	8,943.8	-10,730.5	-1,204.6	10,793.2	0.00	0.00	0.00
20,000.0	89.89	180.51	8,944.0	-10,830.5	-1,205.5	10,892.9	0.00	0.00	0.00
20,100.0	89.89	180.51	8,944.2	-10,930.5	-1,206.3	10,992.6	0.00	0.00	0.00
20,200.0	89.89	180.51	8,944.4	-11,030.4	-1,207.2	11,092.4	0.00	0.00	0.00
20,300.0	89.89	180.51	8,944.6	-11,130.4	-1,208.1	11,192.1	0.00	0.00	0.00
20,400.0	89.89	180.51	8,944.8	-11,230.4	-1,209.0	11,291.8	0.00	0.00	0.00
20,500.0	89.89	180.51	8,945.0	-11,330.4	-1,209.9	11,391.6	0.00	0.00	0.00
20,600.0	89.89	180.51	8,945.2	-11,430.4	-1,210.8	11,491.3	0.00	0.00	0.00
20,700.0	89.89	180.51	8,945.3	-11,530.4	-1,211.7	11,591.0	0.00	0.00	0.00
20,800.0	89.89	180.51	8,945.5	-11,630.4	-1,212.6	11,690.8	0.00	0.00	0.00
20,900.0	89.89	180.51	8,945.7	-11,730.4	-1,213.5	11,790.5	0.00	0.00	0.00
21,000.0	89.89	180.51	8,945.9	-11,830.4	-1,214.3	11,890.2	0.00	0.00	0.00
21,100.0	89.89	180.51	8,946.1	-11,930.4	-1,215.2	11,989.9	0.00	0.00	0.00
21,200.0	89.89	180.51	8,946.3	-12,030.4	-1,216.1	12,089.7	0.00	0.00	0.00
21,300.0	89.89	180.51	8,946.5	-12,130.4	-1,217.0	12,189.4	0.00	0.00	0.00
21,400.0	89.89	180.51	8,946.7	-12,230.4	-1,217.9	12,289.1	0.00	0.00	0.00
21,500.0	89.89	180.51	8,946.9	-12,330.4	-1,218.8	12,388.9	0.00	0.00	0.00
21,600.0	89.89	180.51	8,947.0	-12,430.4	-1,219.7	12,488.6	0.00	0.00	0.00
21,700.0	89.89	180.51	8,947.2	-12,530.4	-1,220.6	12,588.3	0.00	0.00	0.00
21,800.0	89.89	180.51	8,947.4	-12,630.4	-1,221.5	12,688.1	0.00	0.00	0.00
21,900.0	89.89	180.51	8,947.6	-12,730.4	-1,222.3	12,787.8	0.00	0.00	0.00
22,000.0	89.89	180.51	8,947.8	-12,830.4	-1,223.2	12,887.5	0.00	0.00	0.00
22,100.0	89.89	180.51	8,948.0	-12,930.4	-1,224.1	12,987.2	0.00	0.00	0.00
22,200.0	89.89	180.51	8,948.2	-13,030.4	-1,225.0	13,087.0	0.00	0.00	0.00
22,300.0	89.89	180.51	8,948.4	-13,130.4	-1,225.9	13,186.7	0.00	0.00	0.00
22,400.0	89.89	180.51	8,948.5	-13,230.4	-1,226.8	13,286.4	0.00	0.00	0.00
22,500.0	89.89	180.51	8,948.7	-13,330.4	-1,227.7	13,386.2	0.00	0.00	0.00
22,600.0	89.89	180.51	8,948.9	-13,430.3	-1,228.6	13,485.9	0.00	0.00	0.00
22,700.0	89.89	180.51	8,949.1	-13,530.3	-1,229.5	13,585.6	0.00	0.00	0.00
22,800.0	89.89	180.51	8,949.3	-13,630.3	-1,230.3	13,685.4	0.00	0.00	0.00
22,900.0	89.89	180.51	8,949.5	-13,730.3	-1,231.2	13,785.1	0.00	0.00	0.00
23,000.0	89.89	180.51	8,949.7	-13,830.3	-1,232.1	13,884.8	0.00	0.00	0.00
23,100.0	89.89	180.51	8,949.9	-13,930.3	-1,233.0	13,984.5	0.00	0.00	0.00
23,200.0	89.89	180.51	8,950.1	-14,030.3	-1,233.9	14,084.3	0.00	0.00	0.00
23,300.0	89.89	180.51	8,950.2	-14,130.3	-1,234.8	14,184.0	0.00	0.00	0.00
23,400.0	89.89	180.51	8,950.4	-14,230.3	-1,235.7	14,283.7	0.00	0.00	0.00
23,500.0	89.89	180.51	8,950.6	-14,330.3	-1,236.6	14,383.5	0.00	0.00	0.00
23,600.0	89.89	180.51	8,950.8	-14,430.3	-1,237.5	14,483.2	0.00	0.00	0.00
23,700.0	89.89	180.51	8,951.0	-14,530.3	-1,238.3	14,582.9	0.00	0.00	0.00
23,800.0	89.89	180.51	8,951.2	-14,630.3	-1,239.2	14,682.7	0.00	0.00	0.00
23,900.0	89.89	180.51	8,951.4	-14,730.3	-1,240.1	14,782.4	0.00	0.00	0.00
24,000.0	89.89	180.51	8,951.6	-14,830.3	-1,241.0	14,882.1	0.00	0.00	0.00
24,099.3	89.89	180.51	8,951.8	-14,929.6	-1,241.9	14,981.2	0.00	0.00	0.00
Start 130.0 hold at 24099.3 MD									
24,200.0	89.89	180.51	8,951.9	-15,030.3	-1,242.8	15,081.6	0.00	0.00	0.00
24,229.3	89.89	180.51	8,952.0	-15,059.6	-1,243.1	15,110.8	0.00	0.00	0.00
TD at 24229.3									

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #710H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3155ft @ 3187.0usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #710H	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	0.00	0.01	8,924.0	355.4	-1,106.0	402,732.90	540,901.50	32° 6' 25.776 N	104° 12' 4.453 W
- plan misses target center by 237.4usft at 8941.5usft MD (8759.6 TVD, 184.2 N, -1107.5 E)									
- Circle (radius 50.0)									
LTP (FLAMING SNAIL F	0.00	0.00	8,951.8	-14,929.6	-1,241.9	387,447.90	540,765.60	32° 3' 54.509 N	104° 12' 6.250 W
- plan hits target center									
- Point									
PBHL (FLAMING SNAIL	0.11	0.51	8,952.0	-15,059.6	-1,243.1	387,317.90	540,764.40	32° 3' 53.222 N	104° 12' 6.266 W
- plan hits target center									
- Rectangle (sides W100.0 H15,415.7 D20.0)									

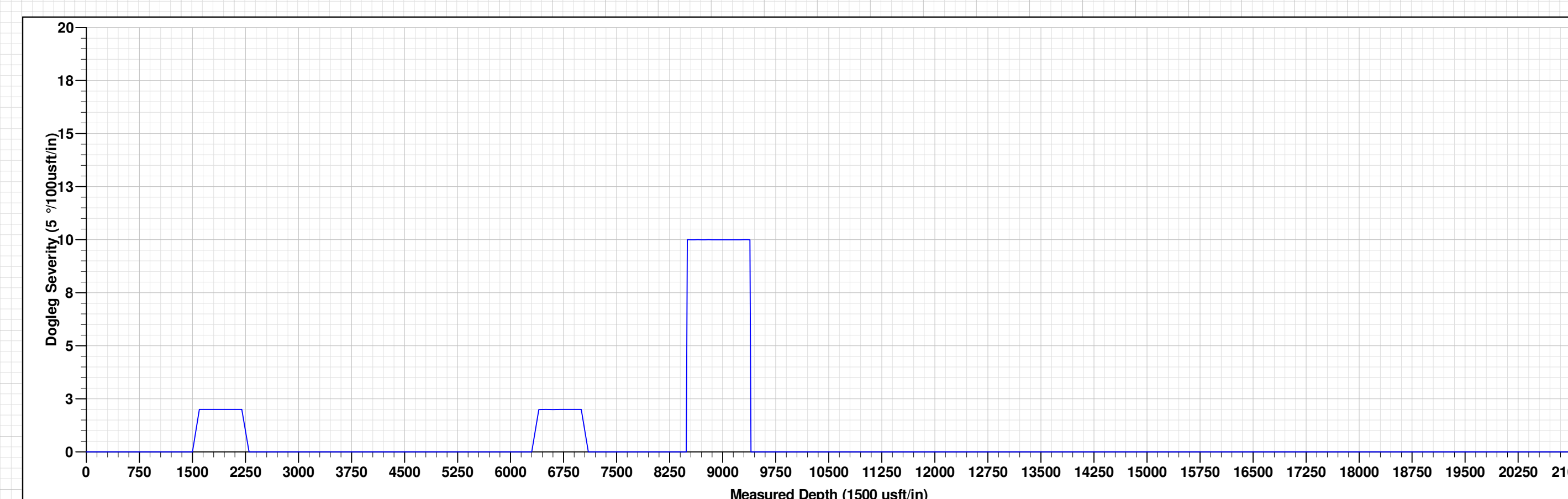
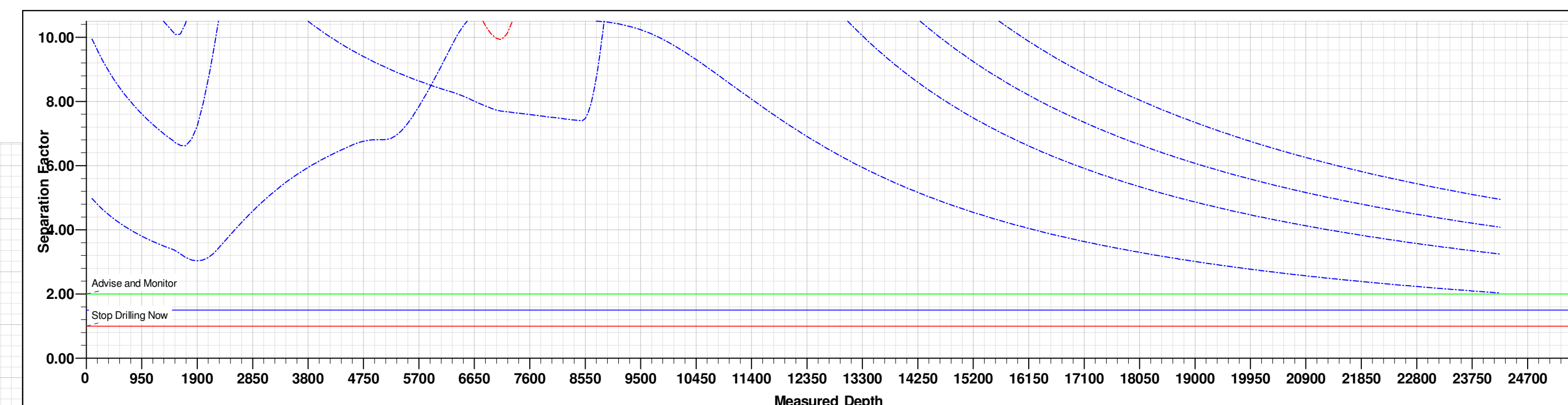
Plan Annotations				
Measured	Vertical	Local Coordinates		
Depth	Depth	+N/-S	+E/-W	Comment
(usft)	(usft)	(usft)	(usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
2,199.8	2,192.9	26.0	-81.0	Start 4100.0 hold at 2199.8 MD
6,299.8	6,171.1	329.4	-1,025.0	Start Drop -2.00
6,999.6	6,864.0	355.4	-1,106.0	Start 1487.0 hold at 6999.6 MD
8,486.6	8,351.0	355.4	-1,106.0	Start DLS 10.00 TFO 180.51
9,385.6	8,924.0	-216.5	-1,111.1	Start 14713.8 hold at 9385.6 MD
24,099.3	8,951.8	-14,929.6	-1,241.9	Start 130.0 hold at 24099.3 MD
24,229.3	8,952.0	-15,059.6	-1,243.1	TD at 24229.3



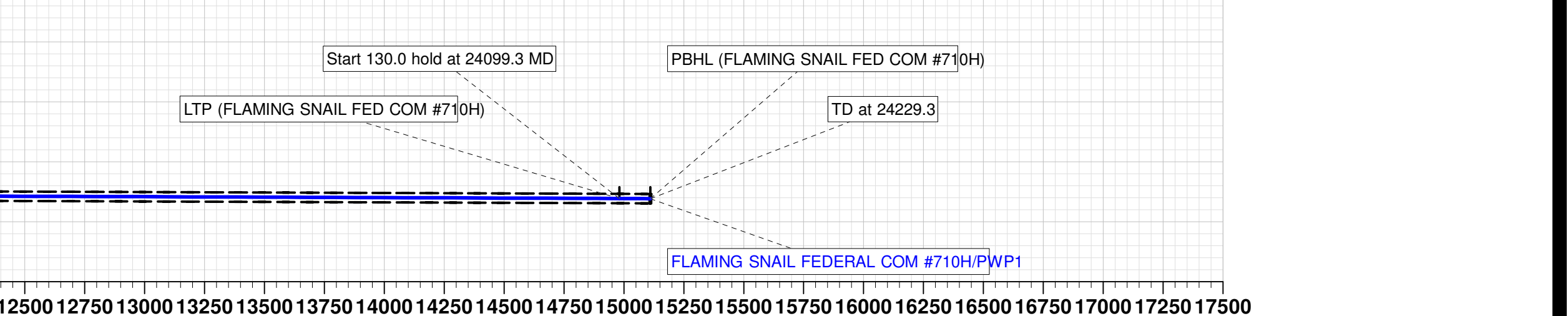
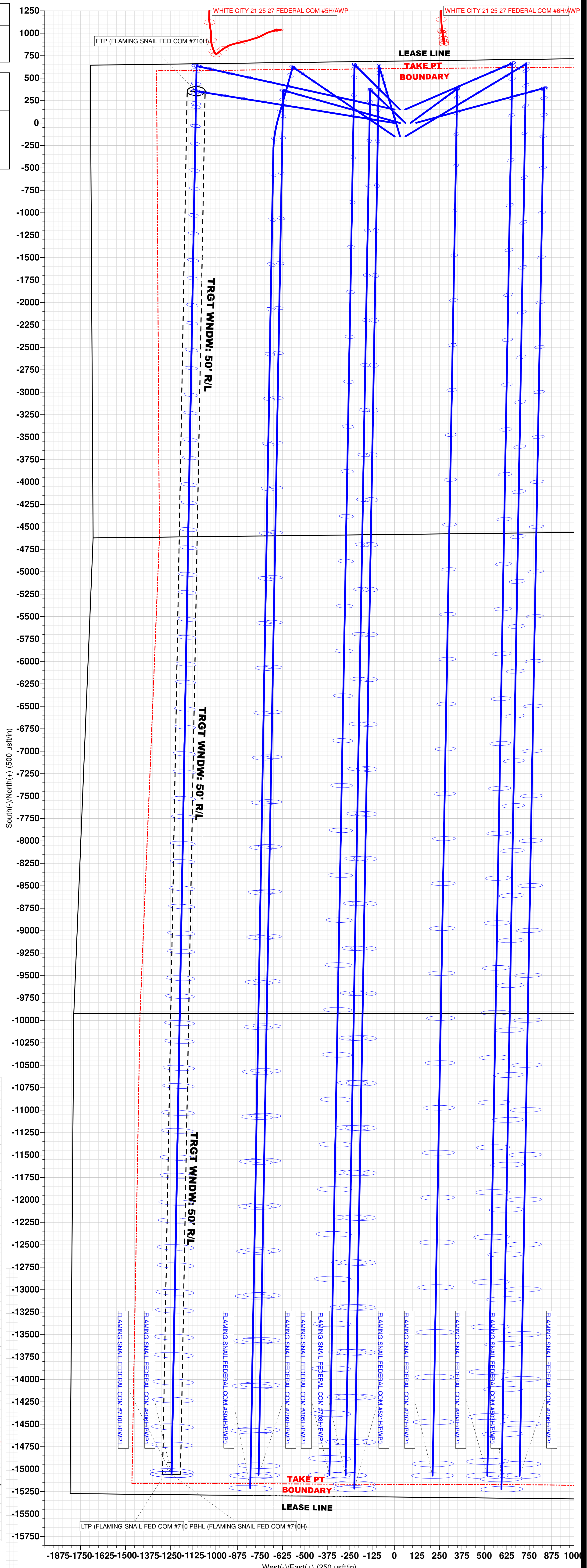
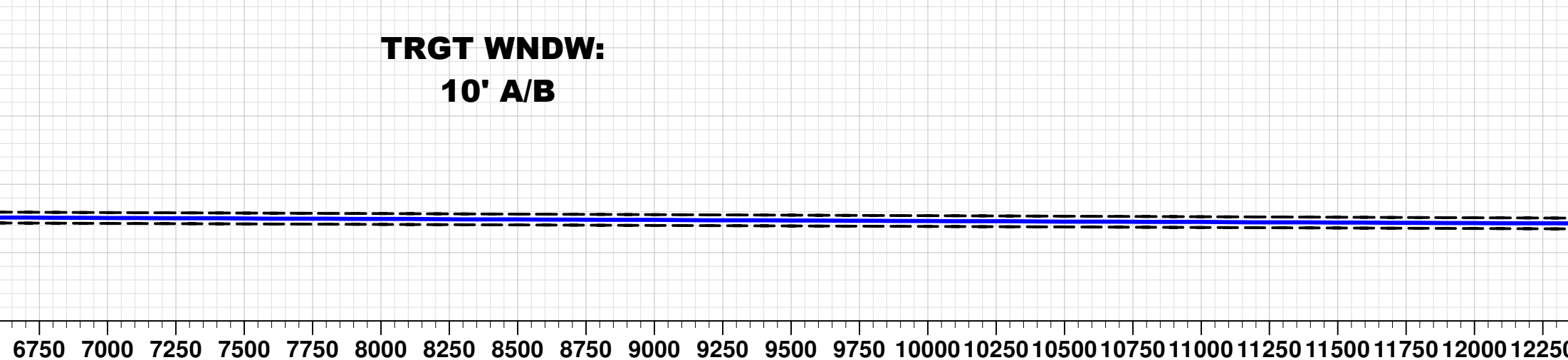
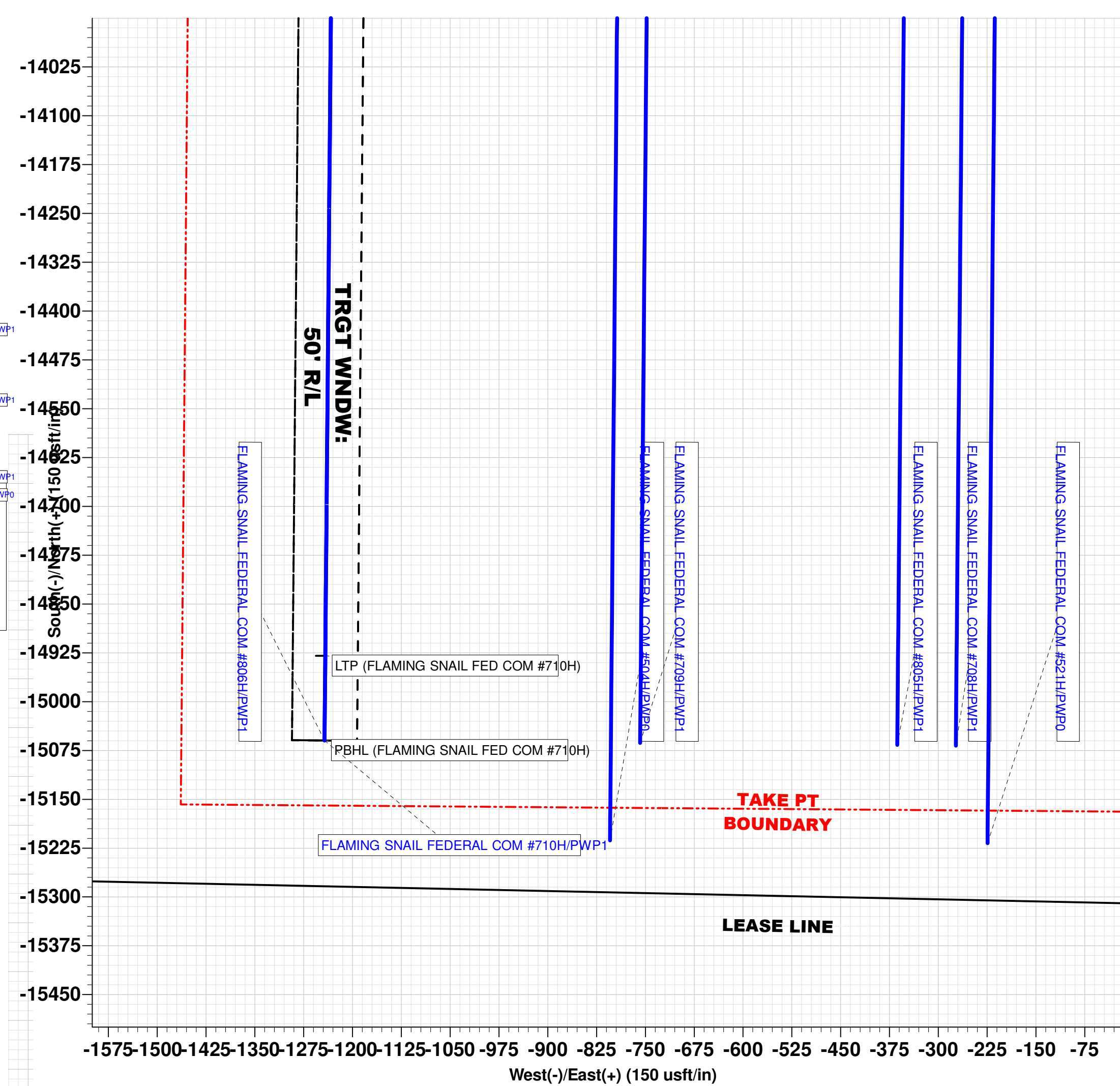
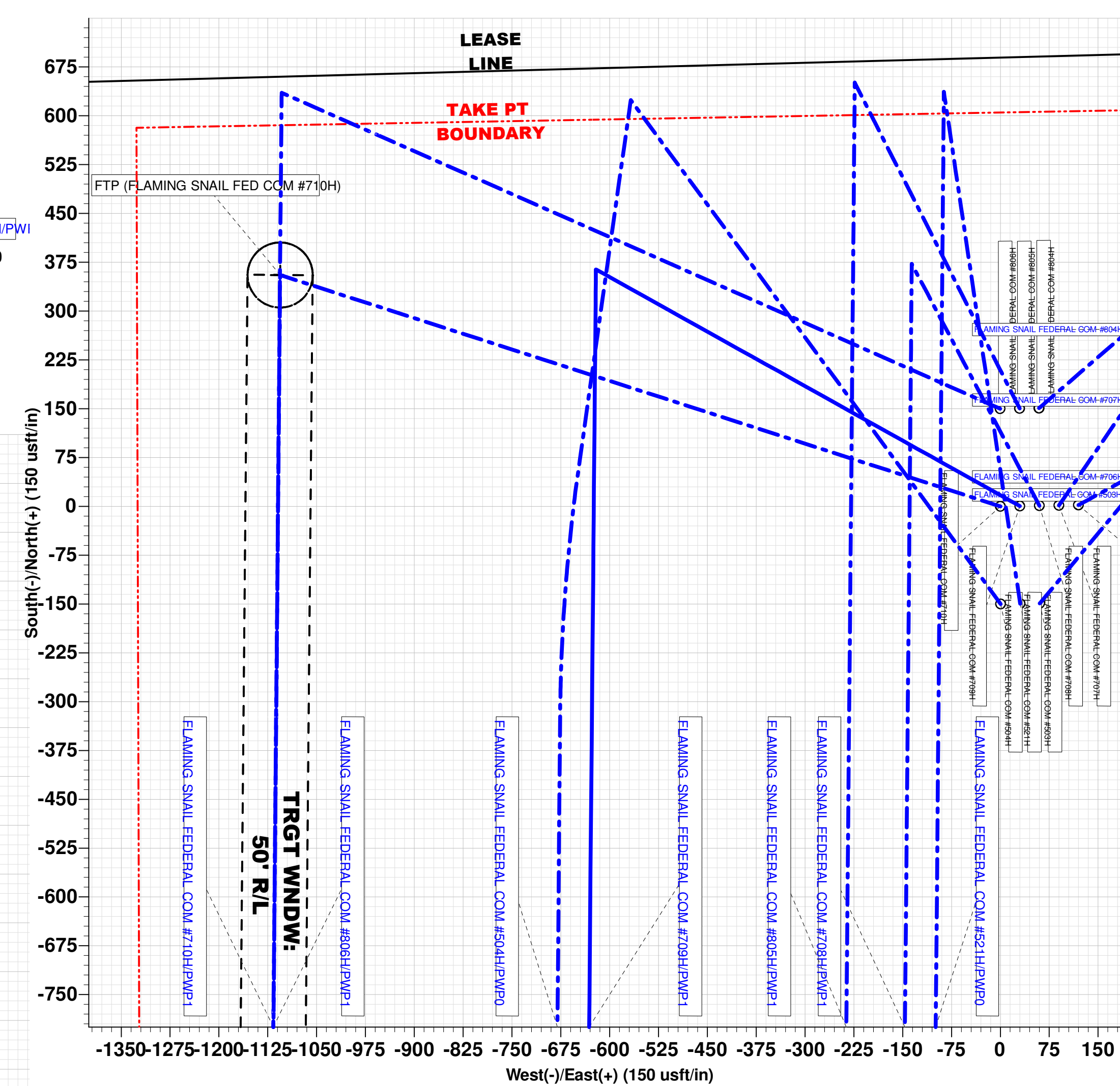
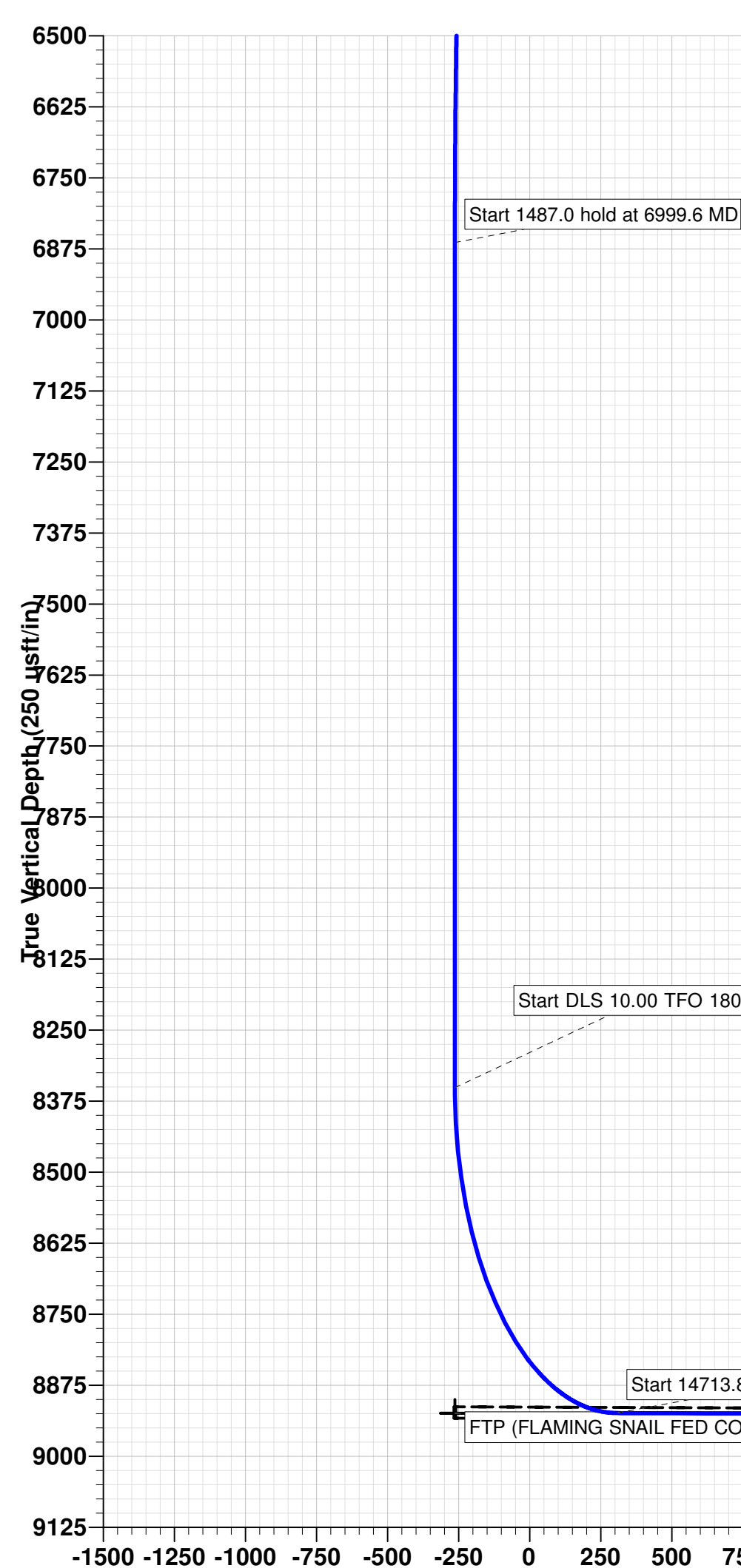
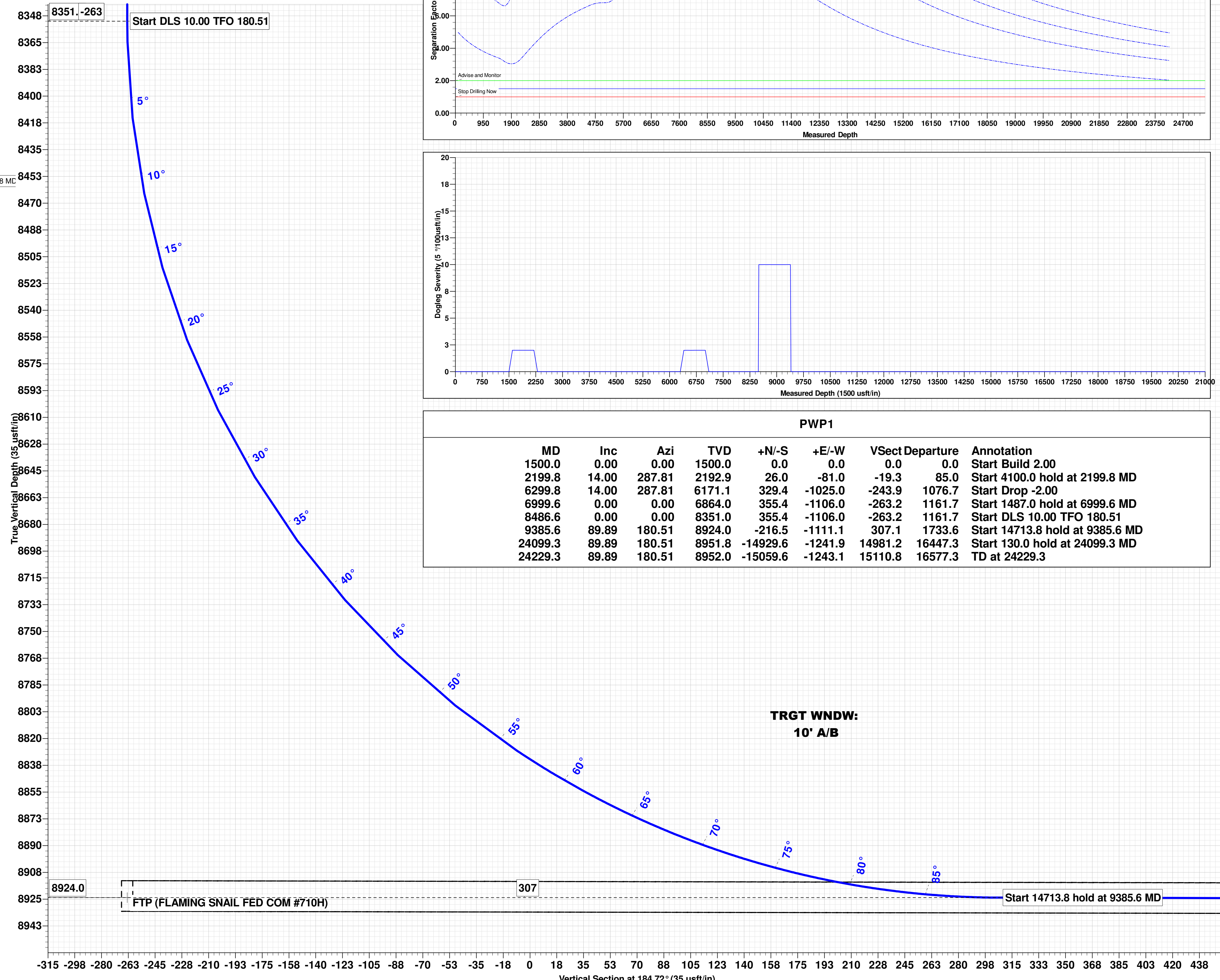
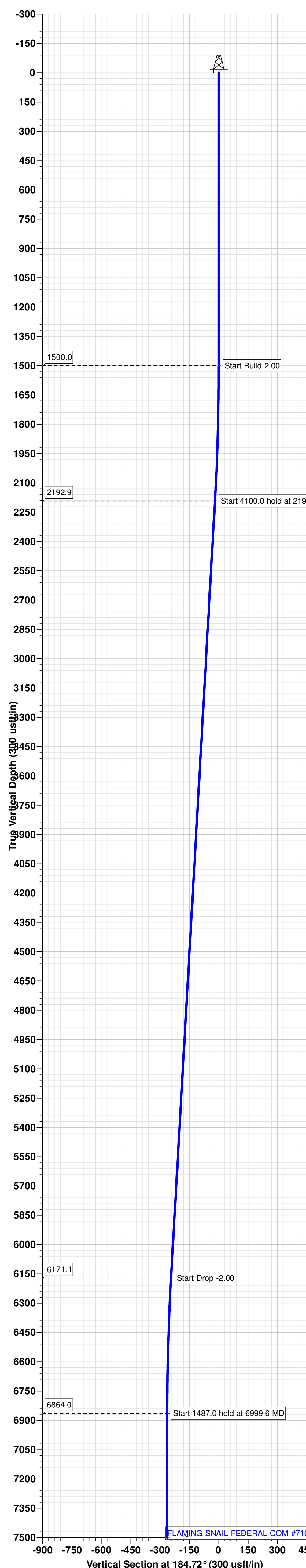
Project: ATLAS PROSPECT (NM-E)
Site: FLAMING SNAIL FED COM PROJECT
Well: FLAMING SNAIL FEDERAL COM #710H
Wellbore: OWB
Design: PWP1
GL: 3155.0
*RKB 32ft + GL 3155ft @ 3187.0usft

WELL DETAILS: FLAMING SNAIL FEDERAL COM #710H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402377.50	542007.50	32° 6' 22.245 N	104° 11' 51.599 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (FLAMING SNAIL FED COM #710H)	8924.0	355.4	-1106.0	402732.90	540901.50
LTP (FLAMING SNAIL FED COM #710H)	8951.8	-14929.6	-1241.9	387447.90	540765.60
PBHL (FLAMING SNAIL FED COM #710H)	8952.0	-15059.6	-1243.1	387317.90	540764.40



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	
2199.8	14.00	287.81	2192.9	26.0	-81.0	-19.3	85.0	Start 4100.0 hold at 2199.8 MD	
6299.8	14.00	287.81	6171.1	329.4	-1025.0	-243.9	1076.7	Start Drop -2.00	
6999.6	0.00	0.00	6864.0	355.4	-1106.0	-263.2	1161.7	Start 1487.0 hold at 6999.6 MD	
8486.6	0.00	0.00	8351.0	355.4	-1106.0	-263.2	1161.7	Start DLS 10.00 TFO 180.51	
9385.6	89.89	180.51	8924.0	-216.5	-1111.1	307.1	1733.6	Start 14713.8 hold at 9385.6 MD	
24099.3	89.89	180.51	8951.8	-14929.6	-1241.9	14961.2	16447.3	Start 130.0 hold at 24099.3 MD	
24229.3	89.89	180.51	8952.0	-15059.6	-1243.1	15110.8	16577.3	TD at 24229.3	



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM92167
LOCATION:	Section 23, T.26 S., R.34 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Flaming Snail Fed Com 706H
SURFACE HOLE FOOTAGE:	757'/N & 1709'/W
BOTTOM HOLE FOOTAGE:	200'/S & 2490'/W

COA

H2S	☐ Yes	☒ No	
Potash	☒ None	☐ Secretary	☐ R-111-P
Cave/Karst Potential	☐ Low	☐ Medium	☒ High
Cave/Karst Potential	☐ Critical		
Variance	☐ None	☒ Flex Hose	☐ Other
Wellhead	☐ Conventional	☒ Multibowl	☐ Both
Other	☐ 4 String Area	☐ Capitan Reef	☐ WIPP
Other	☐ Fluid Filled	☐ Cement Squeeze	☐ Pilot Hole
Special Requirements	☐ Water Disposal	☒ COM	☐ Unit

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 shall meet Onshore Order 6 requirements, 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 and above the salt) 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.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.

Option 2:

Operator has proposed a DV tool, the depth may be adjusted as long as the cement is changed proportionally. The DV tool may be cancelled if cement circulates to surface on the first stage.

- a. First stage to DV tool: Cement to circulate. If cement does not circulate off the DV tool, contact the appropriate BLM office before proceeding with second stage cement job.
 - b. Second stage above DV tool:
 - Cement to surface. If cement does not circulate, contact the appropriate BLM office.

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
 - ❖ 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 surface casing shoe shall be **5000 (5M) psi**.

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

- a. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- b. Manufacturer representative shall install the test plug for the initial BOP test.
- c. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) 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.
- 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 Onshore Oil and Gas Order No. 2 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 OOGO2.III.A.2.i 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 Onshore Order 2

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 Onshore Order No. 2.

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

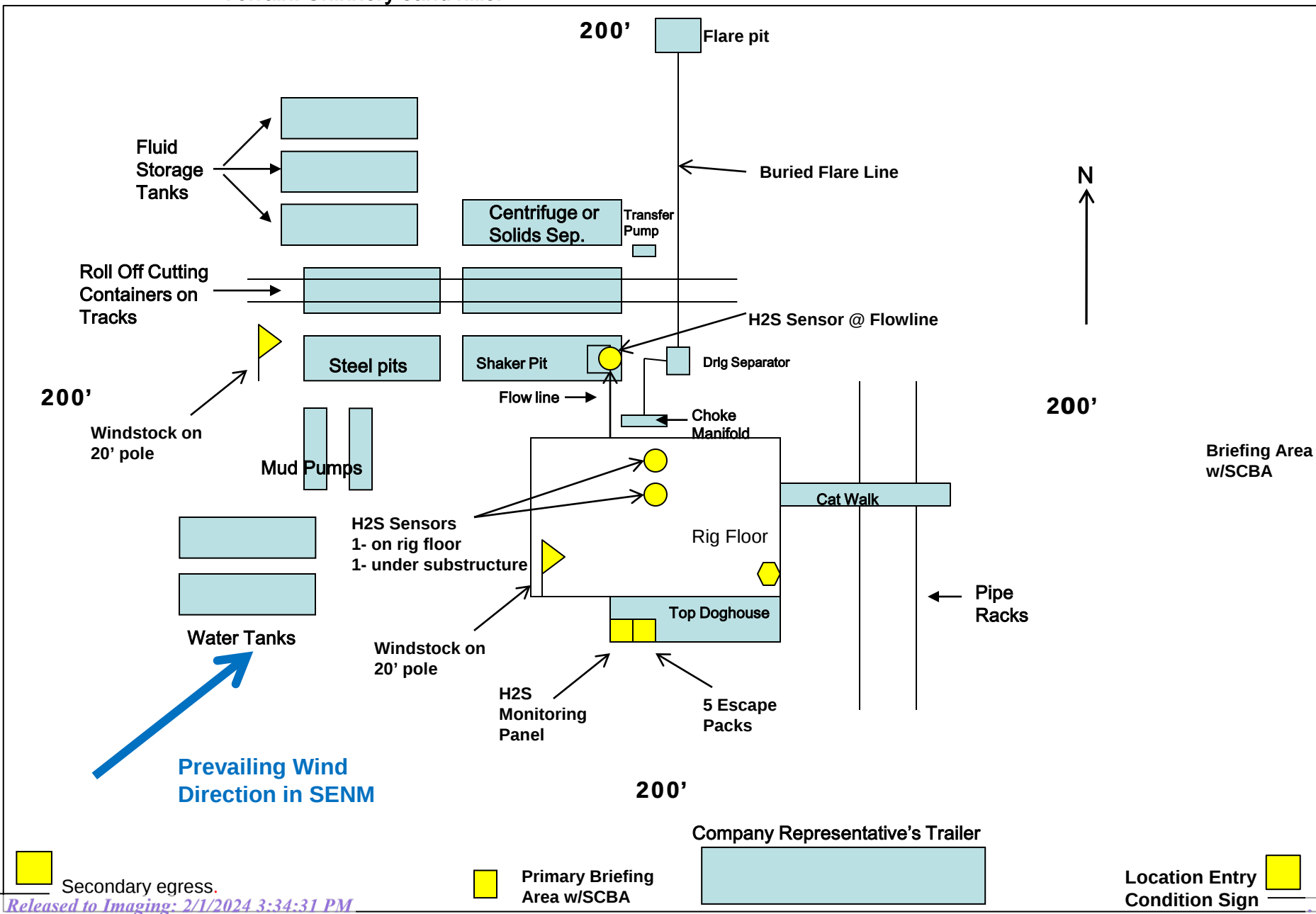
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location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

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

ZS071123

COC Operating LLC
H₂S Equipment Schematic
Terrain: Shinnery sand hills.

Well pad will be 400' x 400'
with cellar in center of pad



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 304034

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID:
	229137
	Action Number:
	304034
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	2/1/2024
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	2/1/2024
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	2/1/2024
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	2/1/2024
ward.rikala	If cement does not circulate on any string, a CBL is required for that string of casing	2/1/2024
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	2/1/2024