

Form 3160-3
(June 2015)FORM APPROVED
OMB No. 1004-0137
Expires: January 31, 2018

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of work: ☒ DRILL ☐ REENTER 1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		5. Lease Serial No. NMNM92167 6. If Indian, Allottee or Tribe Name 7. If Unit or CA Agreement, Name and No. 8. Lease Name and Well No. FLAMING SNAIL FEDERAL COM 705H 9. API Well No. 30-015-54154
2. Name of Operator COG OPERATING LLC 3a. Address 600 West Illinois Ave, Midland, TX 79701 3b. Phone No. (include area code) (432) 683-7443		10. Field and Pool, or Exploratory /PURPLE SAGE (WOLFCAMP) GAS 11. Sec., T. R. M. or Blk. and Survey or Area SEC 28/T25S/R27E/NMP
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENE / 655 FNL / 1035 FEL / LAT 32.106554 / LONG -104.189804 At proposed prod. zone SWSE / 200 FSL / 2270 FEL / LAT 32.064818 / LONG -104.194285		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 10 miles		15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 330 feet 16. No of acres in lease 17. Spacing Unit dedicated to this well 1920.0
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 180 feet		19. Proposed Depth 8965 feet / 24344 feet 20. BLM/BIA Bond No. in file FED: NMB000215
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3129 feet		22. Approximate date work will start* 06/01/2024 23. Estimated duration 30 days
24. Attachments		

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

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

25. Signature (Electronic Submission) Title Regulatory Advisor	Name (Printed/Typed) STAN WAGNER / Ph: (432) 683-7443	Date 10/12/2022
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 Office Carlsbad Field Office	Date 08/25/2023

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

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

APPROVED WITH CONDITIONS

(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NENE / 655 FNL / 1035 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106554 / LONG: -104.189804 (TVD: 0 feet, MD: 0 feet)
PPP: NWNE / 330 FNL / 2270 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107392 / LONG: -104.193808 (TVD: 8786 feet, MD: 8981 feet)
PPP: SWSE / 1319 FSL / 2270 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097389 / LONG: -104.19392 (TVD: 8955 feet, MD: 12612 feet)
PPP: NWSE / 2639 FSL / 2270 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.086375 / LONG: -104.194044 (TVD: 8958 feet, MD: 16572 feet)
PPP: NWNE / 1 FNL / 2270 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079013 / LONG: -104.194126 (TVD: 8960 feet, MD: 19212 feet)
BHL: SWSE / 200 FSL / 2270 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064818 / LONG: -104.194285 (TVD: 8965 feet, MD: 24344 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- 54154	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 705H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3129.2'

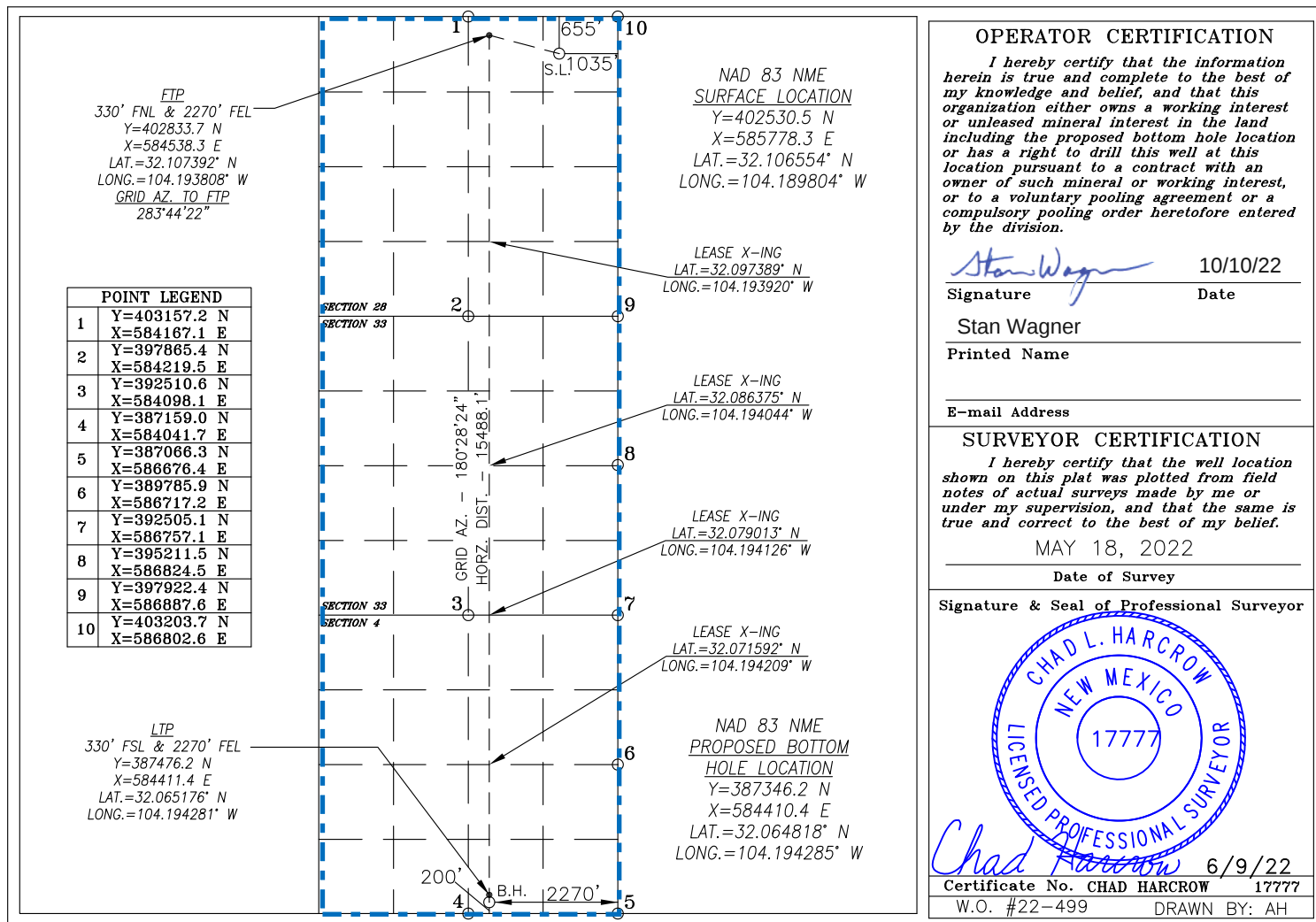
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	25-S	27-E		655	NORTH	1035	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	4	26-S	27-E		200	SOUTH	2270	EAST	EDDY
Dedicated Acres 1920	Joint or Infill Infill	Consolidation Code Com	Order No.						

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



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: COG Operating LLC

OGRID: 229137

Date: 10/06/2022

II. Type: ☒ Original ☐ Amendment due to ☐ 19.15.27.9.D(6)(a) NMAC ☐ 19.15.27.9.D(6)(b) NMAC ☐ Other.

If Other, please describe: _____

III. Well(s): Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	ULSTR	Footages	Anticipated Oil BBL/D	Anticipated Gas MCF/D	Anticipated Produced Water BBL/D
Flaming Snail Fed Com 701H	30-015	A-28-25S-27E	655 FNL & 915 FEL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 702H	30-015-	A-28-25S-27E	655 FNL & 945 FEL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 703H	30-015-	A-28-25S-27E	655 FNL & 975 FEL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 704H	30-015-	A-28-25S-27E	655 FNL & 1005 FEL	± 1600	± 6830	± 5650
Flaming Snail Fed Com 705H	30-015-	A-28-25S-27E	655 FNL & 1035 FEL	± 1600	± 6830	± 5650

IV. Central Delivery Point Name: Flaming Snail Fed Com East CTB NWNE 28-25S-27E [See 19.15.27.9(D)(1) NMAC]

V. Anticipated Schedule: Provide the following information for each new or recompleted well or set of wells proposed to be drilled or proposed to be recompleted from a single well pad or connected to a central delivery point.

Well Name	API	Spud Date	TD Reached Date	Completion Commencement Date	Initial Flow Back Date	First Production Date
Flaming Snail Fed Com	Pending	± 4/01/23	± 25 days from spud	TBD	TBD	TBD
701H, 702H, 703H, 704H, 705H						

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

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

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

Section 2 – Enhanced Plan
EFFECTIVE APRIL 1, 2022

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

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

IX. Anticipated Natural Gas Production:

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

X. Natural Gas Gathering System (NGGS):

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

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

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

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

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

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

Section 3 - Certifications**Effective May 25, 2021**

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

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

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

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

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

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

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

Section 4 - Notices

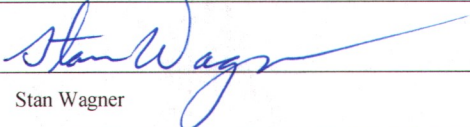
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

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

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

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

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

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

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

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

VI. Separation Equipment

How Operator will size separation equipment to optimize gas capture:

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

VII. Operational Practices

Actions Operator will take to comply with the requirements below:

B. Drilling Operations

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

C. Completion Operations

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

D. Venting and flaring during production operations

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

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

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

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

F. Measurement of vented and flared natural gas.

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

VIII. Best Management Practices

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

COG Operating, LLC - Flaming Snail Federal Com 705H

1. Geologic Formations

TVD of target	8,965' EOL	Pilot hole depth	NA
MD at TD:	24,344'	Deepest expected fresh water:	28'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	40	Water	
Top of Salt	521	Salt	
Base of Salt	1942	Salt	
Lamar	2172	Salt Water	
Bell Canyon	2220	Salt Water	
Cherry Canyon	3020	Oil/Gas	
Brushy Canyon	4116	Oil/Gas	
Bone Spring Lime	5703	Oil/Gas	
1st Bone Spring Sand	6633	Oil/Gas	
2nd Bone Spring Sand	7146	Oil/Gas	
3rd Bone Spring Sand	8464	Oil/Gas	
Wolfcamp	8795	Oil/Gas	
Wolfcamp A	8883	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	24,344	5.5"	23	P110	W441	2.50	2.95	3.54	3.21
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

COG Operating, LLC - Flaming Snail Federal Com 705H

	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 705H

3. Cementing Program

Casing	# Sks	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
	1560	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 705H

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 705H

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 705H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5830 psi at 8965' 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

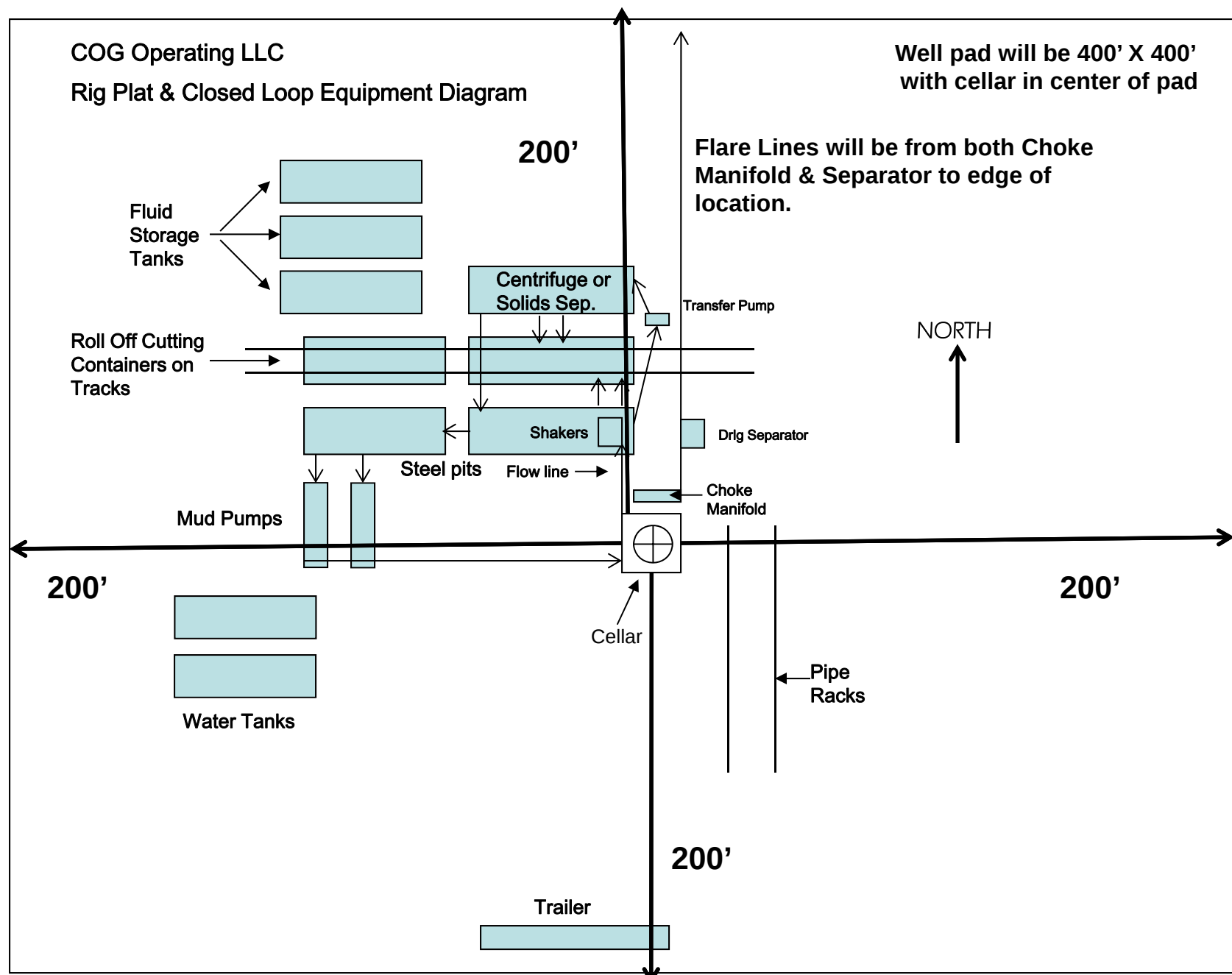


Exhibit 1

"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 #705H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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	8,529.8	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
8,529.8	24,344.7	PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #16H - OWB - AWP						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	1,500.0	1,499.7	161.4	153.3	19.757	CC, ES
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	1,710.0	1,709.5	166.1	157.5	19.217	SF
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	1,500.0	1,500.4	150.0	141.8	18.146	CC
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	1,520.0	1,520.4	150.0	141.7	18.073	ES
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	3,325.0	3,350.9	209.7	191.5	11.481	SF
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	7,580.0	7,668.4	616.3	569.0	13.035	CC, ES
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	7,600.0	7,679.2	616.6	569.1	13.002	SF
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,500.0	1,500.0	152.9	144.6	18.556	CC
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,520.0	1,520.0	152.9	144.6	18.481	ES
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,800.0	1,799.5	160.4	151.5	17.986	SF
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,437.5	1,437.6	120.0	111.2	13.683	CC
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,500.0	1,500.0	120.0	111.1	13.517	ES
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,600.0	1,596.6	123.1	113.9	13.354	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,500.0	1,500.0	90.0	81.1	10.137	CC, ES
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,600.0	1,598.8	92.4	83.2	10.079	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,500.3	1,500.4	60.0	51.1	6.757	CC
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,520.0	1,520.4	60.0	51.1	6.711	ES
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,345.4	24,273.1	970.0	729.9	4.040	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,502.7	1,502.8	30.0	21.1	3.375	CC
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,805.0	1,808.1	30.6	20.3	2.970	ES
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,345.4	24,311.3	485.0	244.0	2.012	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	8,502.7	8,469.0	513.6	463.8	10.323	CC
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,344.7	24,278.2	522.5	282.5	2.177	ES, SF
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	8,500.0	8,407.6	998.6	954.3	22.541	CC
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,345.4	24,197.9	1,007.5	768.3	4.212	ES, SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,500.0	1,496.1	161.7	152.3	17.264	CC

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,520.0	1,515.3	161.8	152.3	17.180	ES
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,700.0	1,686.3	168.4	158.4	16.874	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,500.0	1,495.5	153.0	143.6	16.247	CC
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,520.0	1,514.8	153.0	143.6	16.161	ES
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,710.0	1,696.7	158.4	148.3	15.756	SF
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,512.9	1,508.2	149.9	140.5	15.842	CC
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,520.0	1,515.2	149.9	140.4	15.817	ES
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,345.4	25,425.9	836.1	588.2	3.372	SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	8,529.8	8,491.3	741.0	695.2	16.174	CC, ES
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,345.4	25,359.2	1,062.1	817.5	4.343	SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1						Out of range
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	10,500.0	8,928.3	292.7	-1.6	0.995	Advise and Monitor, ES, SF
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	10,500.1	8,928.3	292.7	-1.6	0.995	Advise and Monitor, CC
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW						Out of range
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,291.1	7,060.7	1,185.0	1,129.6	21.385	CC
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,300.0	7,065.9	1,185.0	1,129.6	21.364	ES
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	7,400.0	7,117.0	1,189.4	1,133.4	21.246	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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #16H - OWB - AWP	24,345.4	9,148.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	24,345.4	23,278.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	24,345.4	23,206.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	24,345.4	23,174.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	24,345.4	23,095.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,345.4	23,595.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	24,345.4	23,481.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	24,345.4	24,354.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	24,345.4	24,282.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,345.4	24,273.1	970.0	729.9	4.040	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,345.4	24,311.3	485.0	244.0	2.012	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,345.4	24,278.2	522.5	282.5	2.177	
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,345.4	24,197.9	1,007.5	768.3	4.212	ES, SF
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,345.4	24,170.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	24,345.4	24,202.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #710H - OWB - PWP1	24,345.4	24,229.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,345.4	25,463.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,345.4	25,380.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,345.4	25,425.9	836.1	588.2	3.372	SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,345.4	25,359.2	1,062.1	817.5	4.343	SF
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	24,345.4	25,284.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	24,345.4	25,330.7				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	24,345.4	8,939.5				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #5H - OWB - AW	24,345.4	6,985.0				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	24,345.4	7,054.0				Out of Range @TD

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	157.26	-148.9	62.4	161.4				
95.0	95.0	94.7	94.7	3.0	3.0	157.26	-148.9	62.4	161.4	155.4	6.02	26.827	
100.0	100.0	99.7	99.7	3.0	3.0	157.26	-148.9	62.4	161.4	155.4	6.02	26.814	
190.0	190.0	189.7	189.7	3.1	3.0	157.26	-148.9	62.4	161.4	155.3	6.13	26.325	
200.0	200.0	199.7	199.7	3.1	3.0	157.26	-148.9	62.4	161.4	155.3	6.15	26.248	
285.0	285.0	284.7	284.7	3.3	3.0	157.26	-148.9	62.4	161.4	155.2	6.26	25.783	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
300.0	300.0	299.7	299.7	3.3	3.0	157.26	-148.9	62.4	161.4	155.2	6.28	25.690	
380.0	380.0	379.7	379.7	3.4	3.0	157.26	-148.9	62.4	161.4	155.1	6.39	25.257	
400.0	400.0	399.7	399.7	3.4	3.0	157.26	-148.9	62.4	161.4	155.0	6.42	25.142	
475.0	475.0	474.7	474.7	3.5	3.0	157.26	-148.9	62.4	161.4	154.9	6.53	24.741	
500.0	500.0	499.7	499.7	3.5	3.1	157.26	-148.9	62.4	161.4	154.9	6.56	24.601	
570.0	570.0	569.7	569.7	3.6	3.1	157.26	-148.9	62.4	161.4	154.8	6.66	24.233	
600.0	600.0	599.7	599.7	3.6	3.1	157.26	-148.9	62.4	161.4	154.7	6.71	24.070	
665.0	665.0	664.7	664.7	3.7	3.1	157.26	-148.9	62.4	161.4	154.6	6.80	23.734	
700.0	700.0	699.7	699.7	3.8	3.1	157.26	-148.9	62.4	161.4	154.6	6.86	23.549	
760.0	760.0	759.7	759.7	3.8	3.1	157.26	-148.9	62.4	161.4	154.5	6.95	23.243	
800.0	800.0	799.7	799.7	3.9	3.2	157.26	-148.9	62.4	161.4	154.4	7.01	23.037	
855.0	855.0	854.7	854.7	4.0	3.2	157.26	-148.9	62.4	161.4	154.4	7.09	22.762	
900.0	900.0	899.7	899.7	4.0	3.2	157.26	-148.9	62.4	161.4	154.3	7.16	22.535	
950.0	950.0	949.7	949.7	4.1	3.2	157.26	-148.9	62.4	161.4	154.2	7.24	22.290	
1,000.0	1,000.0	999.7	999.7	4.1	3.2	157.26	-148.9	62.4	161.4	154.1	7.32	22.044	
1,045.0	1,045.0	1,044.7	1,044.7	4.2	3.3	157.26	-148.9	62.4	161.4	154.1	7.40	21.828	
1,100.0	1,100.0	1,099.7	1,099.7	4.2	3.3	157.26	-148.9	62.4	161.4	154.0	7.49	21.564	
1,140.0	1,140.0	1,139.7	1,139.7	4.3	3.3	157.26	-148.9	62.4	161.4	153.9	7.55	21.376	
1,200.0	1,200.0	1,199.7	1,199.7	4.4	3.4	157.26	-148.9	62.4	161.4	153.8	7.65	21.095	
1,235.0	1,235.0	1,234.7	1,234.7	4.4	3.4	157.26	-148.9	62.4	161.4	153.7	7.71	20.935	
1,300.0	1,300.0	1,299.7	1,299.7	4.5	3.4	157.26	-148.9	62.4	161.4	153.6	7.82	20.638	
1,330.0	1,330.0	1,329.7	1,329.7	4.5	3.4	157.26	-148.9	62.4	161.4	153.6	7.87	20.503	
1,400.0	1,400.0	1,399.7	1,399.7	4.6	3.5	157.26	-148.9	62.4	161.4	153.5	8.00	20.192	
1,425.0	1,425.0	1,424.7	1,424.7	4.6	3.5	157.26	-148.9	62.4	161.4	153.4	8.04	20.083	
1,500.0	1,500.0	1,499.7	1,499.7	4.7	3.5	157.26	-148.9	62.4	161.4	153.3	8.17	19.757 CC, ES	
1,520.0	1,520.0	1,519.7	1,519.7	4.7	3.6	-126.50	-148.9	62.4	161.5	153.3	8.21	19.676	
1,600.0	1,600.0	1,599.7	1,599.7	4.8	3.6	-126.96	-148.9	62.4	162.5	154.1	8.37	19.424	
1,615.0	1,615.0	1,614.7	1,614.7	4.9	3.6	-127.11	-148.9	62.4	162.8	154.4	8.40	19.378	
1,700.0	1,699.8	1,699.5	1,699.5	5.0	3.7	-128.35	-148.9	62.4	165.7	157.1	8.62	19.222	
1,710.0	1,709.8	1,709.5	1,709.5	5.0	3.7	-128.54	-148.9	62.4	166.1	157.5	8.65	19.217 SF	
1,800.0	1,799.5	1,799.2	1,799.2	5.3	3.8	-130.55	-148.9	62.4	171.2	162.4	8.88	19.278	
1,805.0	1,804.4	1,804.1	1,804.1	5.3	3.8	-130.68	-148.9	62.4	171.6	162.7	8.90	19.288	
1,900.0	1,898.7	1,898.4	1,898.4	5.5	3.9	-133.38	-148.9	62.4	179.4	170.3	9.16	19.585	
1,995.0	1,992.5	1,992.2	1,992.2	5.9	3.9	-136.45	-148.9	62.4	189.9	180.5	9.45	20.101	
2,000.0	1,997.5	1,997.2	1,997.2	5.9	3.9	-136.62	-148.9	62.4	190.6	181.1	9.46	20.135	
2,090.0	2,085.8	2,087.0	2,087.0	6.2	4.1	-140.14	-147.9	63.2	203.0	193.2	9.82	20.678	
2,100.0	2,095.6	2,097.0	2,096.9	6.2	4.1	-140.58	-147.6	63.4	204.6	194.7	9.85	20.758	
2,185.0	2,178.5	2,180.6	2,180.4	6.5	4.4	-144.58	-144.5	66.0	218.9	208.6	10.26	21.326	
2,200.1	2,193.1	2,195.2	2,195.1	6.6	4.4	-145.33	-143.7	66.6	221.7	211.4	10.34	21.443	
2,280.0	2,270.7	2,272.6	2,272.1	6.8	4.6	-149.47	-138.8	70.6	237.4	226.7	10.71	22.170	
2,300.0	2,290.1	2,291.8	2,291.3	6.9	4.7	-150.50	-137.4	71.8	241.5	230.7	10.80	22.354	
2,375.0	2,362.9	2,363.4	2,362.4	7.1	4.9	-154.28	-131.0	76.9	257.5	246.3	11.17	23.057	
2,400.0	2,387.1	2,387.0	2,385.9	7.2	5.0	-155.52	-128.6	78.9	263.0	251.8	11.29	23.297	
2,470.0	2,455.0	2,452.8	2,450.9	7.5	5.2	-158.92	-121.2	84.9	279.3	267.7	11.65	23.981	
2,500.0	2,484.1	2,480.8	2,478.5	7.6	5.3	-160.34	-117.7	87.8	286.6	274.8	11.80	24.285	
2,565.0	2,547.2	2,540.8	2,537.6	7.8	5.5	-163.35	-109.4	94.5	303.1	291.0	12.15	24.954	
2,600.0	2,581.2	2,572.8	2,569.0	7.9	5.6	-164.92	-104.6	98.4	312.5	300.1	12.34	25.328	
2,660.0	2,639.4	2,627.1	2,622.1	8.2	5.9	-167.54	-95.8	105.5	329.2	316.5	12.67	25.980	
2,700.0	2,678.2	2,663.0	2,657.1	8.3	6.0	-169.23	-89.6	110.6	340.9	328.0	12.90	26.430	
2,755.0	2,731.6	2,712.2	2,704.9	8.5	6.2	-171.50	-80.6	117.9	357.6	344.4	13.22	27.058	
2,800.0	2,775.2	2,753.4	2,744.9	8.7	6.3	-173.28	-72.8	124.2	371.7	358.2	13.48	27.569	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Measured Depth (usft)	Reference Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,850.0	2,823.7	2,799.3	2,789.4	8.9	6.5	-175.12	-64.2	131.2	387.8	374.0	13.79	28.126		
2,900.0	2,872.3	2,845.1	2,833.8	9.1	6.6	-176.81	-55.6	138.2	404.3	390.2	14.10	28.677		
2,945.0	2,915.9	2,886.3	2,873.8	9.3	6.8	-178.23	-47.9	144.5	419.3	404.9	14.38	29.160		
3,000.0	2,969.3	2,936.7	2,922.7	9.5	7.0	-179.84	-38.4	152.2	438.0	423.3	14.73	29.738		
3,040.0	3,008.1	2,973.4	2,958.3	9.7	7.1	179.07	-31.5	157.8	451.8	436.9	14.99	30.146		
3,100.0	3,066.3	3,028.4	3,011.7	9.9	7.3	177.56	-21.2	166.2	472.8	457.4	15.38	30.742		
3,135.0	3,100.3	3,060.4	3,042.8	10.1	7.4	176.73	-15.2	171.1	485.2	469.5	15.61	31.078		
3,200.0	3,163.3	3,120.0	3,100.6	10.3	7.6	175.30	-4.0	180.1	508.3	492.3	16.04	31.684		
3,230.0	3,192.5	3,147.5	3,127.2	10.5	7.7	174.68	1.2	184.3	519.1	502.9	16.25	31.953		
3,300.0	3,260.4	3,211.6	3,189.5	10.8	8.0	173.32	13.2	194.1	544.5	527.8	16.72	32.563		
3,325.0	3,284.6	3,234.5	3,211.7	10.9	8.1	172.87	17.5	197.6	553.6	536.7	16.89	32.773		
3,400.0	3,357.4	3,303.3	3,278.4	11.2	8.4	171.59	30.4	208.1	581.1	563.7	17.41	33.381		
3,420.0	3,376.8	3,321.6	3,296.2	11.3	8.4	171.27	33.9	210.9	588.5	571.0	17.55	33.537		
3,500.0	3,454.4	3,394.9	3,367.3	11.6	8.8	170.06	47.6	222.1	618.2	600.1	18.11	34.141		
3,515.0	3,469.0	3,408.7	3,380.7	11.7	8.8	169.85	50.2	224.2	623.8	605.6	18.21	34.250		
3,600.0	3,551.5	3,486.6	3,456.2	12.1	9.1	168.70	64.9	236.1	655.6	636.8	18.82	34.846		
3,610.0	3,561.2	3,495.7	3,465.1	12.1	9.2	168.57	66.6	237.5	659.4	640.5	18.89	34.914		
3,700.0	3,648.5	3,578.2	3,545.2	12.5	9.5	167.48	82.1	250.0	693.4	673.8	19.53	35.501		
3,705.0	3,653.3	3,582.8	3,549.6	12.5	9.5	167.42	82.9	250.7	695.3	675.7	19.57	35.532		
3,800.0	3,745.5	3,669.8	3,634.1	13.0	9.9	166.39	99.3	264.0	731.3	711.1	20.25	36.108		
3,895.0	3,837.7	3,756.9	3,718.5	13.4	10.3	165.45	115.6	277.3	767.6	746.6	20.95	36.645		
3,900.0	3,842.5	3,761.5	3,723.0	13.4	10.3	165.40	116.5	278.0	769.5	748.5	20.98	36.673		
3,990.0	3,929.9	3,843.9	3,803.0	13.8	10.7	164.59	132.0	290.6	804.0	782.4	21.64	37.147		
4,000.0	3,939.6	3,853.1	3,811.9	13.9	10.7	164.51	133.7	292.0	807.9	786.1	21.72	37.198		
4,085.0	4,022.1	3,931.0	3,887.5	14.3	11.1	163.81	148.3	303.9	840.6	818.2	22.35	37.615		
4,100.0	4,036.6	3,944.8	3,900.8	14.3	11.1	163.69	150.9	306.0	846.4	823.9	22.46	37.686		
4,180.0	4,114.2	4,018.1	3,972.0	14.7	11.5	163.09	164.7	317.2	877.3	854.2	23.05	38.053		
4,200.0	4,133.6	4,036.4	3,989.7	14.8	11.5	162.95	168.1	320.0	885.0	861.8	23.20	38.142		
4,275.0	4,206.4	4,105.1	4,056.4	15.1	11.9	162.43	181.0	330.4	914.1	890.3	23.76	38.464		
4,300.0	4,230.7	4,128.0	4,078.7	15.3	12.0	162.26	185.3	333.9	923.8	899.8	23.95	38.568		
4,370.0	4,298.6	4,192.2	4,140.9	15.6	12.2	161.82	197.4	343.7	951.0	926.5	24.48	38.849		
4,400.0	4,327.7	4,219.7	4,167.6	15.7	12.4	161.64	202.5	347.9	962.6	937.9	24.70	38.965		
4,465.0	4,390.8	4,279.2	4,225.4	16.0	12.6	161.25	213.7	357.0	987.9	962.7	25.20	39.210		
4,500.0	4,424.7	4,311.3	4,256.5	16.2	12.8	161.06	219.7	361.9	1,001.6	976.1	25.46	39.338		
4,560.0	4,482.9	4,366.3	4,309.8	16.5	13.0	160.73	230.1	370.3	1,025.0	999.1	25.92	39.550		
4,600.0	4,521.8	4,402.9	4,345.4	16.6	13.2	160.52	236.9	375.9	1,040.6	1,014.4	26.22	39.687		
4,655.0	4,575.1	4,453.3	4,394.3	16.9	13.4	160.24	246.4	383.6	1,062.1	1,035.5	26.64	39.869		
4,700.0	4,618.8	4,494.6	4,434.3	17.1	13.6	160.02	254.2	389.9	1,079.7	1,052.7	26.98	40.015		
4,750.0	4,667.3	4,540.4	4,478.8	17.3	13.8	159.78	262.8	396.9	1,099.3	1,071.9	27.37	40.171		
4,800.0	4,715.8	4,586.2	4,523.2	17.6	14.1	159.56	271.4	403.8	1,118.9	1,091.2	27.75	40.323		
4,845.0	4,759.5	4,627.5	4,563.2	17.8	14.3	159.36	279.1	410.1	1,136.6	1,108.5	28.09	40.455		
4,900.0	4,812.8	4,677.9	4,612.2	18.0	14.5	159.12	288.6	417.8	1,158.1	1,129.6	28.52	40.613		
4,940.0	4,851.7	4,714.5	4,647.7	18.2	14.7	158.96	295.5	423.4	1,173.8	1,145.0	28.82	40.724		
5,000.0	4,909.9	4,769.5	4,701.1	18.5	14.9	158.72	305.8	431.8	1,197.4	1,168.1	29.29	40.886		
5,035.0	4,943.8	4,801.6	4,732.2	18.7	15.1	158.58	311.8	436.7	1,211.2	1,181.6	29.56	40.978		
5,100.0	5,006.9	4,861.1	4,790.0	19.0	15.3	158.34	323.0	445.8	1,236.8	1,206.7	30.06	41.144		
5,130.0	5,036.0	4,888.6	4,816.7	19.1	15.5	158.23	328.2	450.0	1,248.6	1,218.3	30.29	41.218		
5,200.0	5,103.9	4,952.8	4,878.9	19.5	15.8	157.99	340.2	459.8	1,276.1	1,245.3	30.83	41.388		
5,225.0	5,128.2	4,975.7	4,901.1	19.6	15.9	157.90	344.5	463.3	1,286.0	1,255.0	31.03	41.446		
5,300.0	5,201.0	5,044.4	4,967.8	19.9	16.2	157.65	357.4	473.8	1,315.5	1,283.9	31.61	41.618		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS				Rule Assigned:					Offset Well Error: 3.0 usft					
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.4	0.4	3.0	3.0	179.05	-150.0	2.5	150.0					
95.0	95.0	95.4	95.4	3.0	3.0	179.05	-150.0	2.5	150.0	144.0	6.02	24.928		
100.0	100.0	100.4	100.4	3.0	3.0	179.05	-150.0	2.5	150.0	144.0	6.02	24.916		
190.0	190.0	190.4	190.4	3.1	3.0	179.05	-150.0	2.5	150.0	143.9	6.13	24.458		
200.0	200.0	200.4	200.4	3.1	3.0	179.05	-150.0	2.5	150.0	143.9	6.15	24.386		
285.0	285.0	285.4	285.4	3.3	3.0	179.05	-150.0	2.5	150.0	143.8	6.26	23.947		
300.0	300.0	300.4	300.4	3.3	3.0	179.05	-150.0	2.5	150.0	143.7	6.29	23.859		
380.0	380.0	380.4	380.4	3.4	3.0	179.05	-150.0	2.5	150.0	143.6	6.40	23.448		
400.0	400.0	400.4	400.4	3.4	3.0	179.05	-150.0	2.5	150.0	143.6	6.43	23.338		
475.0	475.0	475.4	475.4	3.5	3.0	179.05	-150.0	2.5	150.0	143.5	6.54	22.955		
500.0	500.0	500.4	500.4	3.5	3.1	179.05	-150.0	2.5	150.0	143.4	6.57	22.822		
570.0	570.0	570.4	570.4	3.6	3.1	179.05	-150.0	2.5	150.0	143.3	6.68	22.469		
600.0	600.0	600.4	600.4	3.6	3.1	179.05	-150.0	2.5	150.0	143.3	6.72	22.313		
665.0	665.0	665.4	665.4	3.7	3.1	179.05	-150.0	2.5	150.0	143.2	6.82	21.989		
700.0	700.0	700.4	700.4	3.8	3.1	179.05	-150.0	2.5	150.0	143.1	6.88	21.811		
760.0	760.0	760.4	760.4	3.8	3.1	179.05	-150.0	2.5	150.0	143.0	6.97	21.517		
800.0	800.0	800.4	800.4	3.9	3.2	179.05	-150.0	2.5	150.0	143.0	7.04	21.318		
855.0	855.0	855.4	855.4	4.0	3.2	179.05	-150.0	2.5	150.0	142.9	7.13	21.052		
900.0	900.0	900.4	900.4	4.0	3.2	179.05	-150.0	2.5	150.0	142.8	7.20	20.833		
950.0	950.0	950.4	950.4	4.1	3.2	179.05	-150.0	2.5	150.0	142.7	7.28	20.596		
1,000.0	1,000.0	1,000.4	1,000.4	4.1	3.2	179.05	-150.0	2.5	150.0	142.7	7.37	20.358		
1,045.0	1,045.0	1,045.4	1,045.4	4.2	3.3	179.05	-150.0	2.5	150.0	142.6	7.45	20.149		
1,100.0	1,100.0	1,100.4	1,100.4	4.2	3.3	179.05	-150.0	2.5	150.0	142.5	7.54	19.894		
1,140.0	1,140.0	1,140.4	1,140.4	4.3	3.3	179.05	-150.0	2.5	150.0	142.4	7.61	19.712		
1,200.0	1,200.0	1,200.4	1,200.4	4.4	3.4	179.05	-150.0	2.5	150.0	142.3	7.72	19.440		
1,235.0	1,235.0	1,235.4	1,235.4	4.4	3.4	179.05	-150.0	2.5	150.0	142.2	7.78	19.284		
1,300.0	1,300.0	1,300.4	1,300.4	4.5	3.4	179.05	-150.0	2.5	150.0	142.1	7.90	18.997		
1,330.0	1,330.0	1,330.4	1,330.4	4.5	3.4	179.05	-150.0	2.5	150.0	142.1	7.95	18.867		
1,400.0	1,400.0	1,400.4	1,400.4	4.6	3.5	179.05	-150.0	2.5	150.0	141.9	8.08	18.566		
1,425.0	1,425.0	1,425.4	1,425.4	4.6	3.5	179.05	-150.0	2.5	150.0	141.9	8.13	18.460		
1,500.0	1,500.0	1,500.4	1,500.4	4.7	3.5	179.05	-150.0	2.5	150.0	141.8	8.27	18.146 CC		
1,520.0	1,520.0	1,520.4	1,520.4	4.7	3.6	-104.72	-150.0	2.5	150.0	141.7	8.30	18.073 ES		
1,600.0	1,600.0	1,600.4	1,600.4	4.8	3.6	-105.33	-150.0	2.5	150.5	142.0	8.44	17.823		
1,615.0	1,615.0	1,615.4	1,615.4	4.9	3.6	-105.53	-150.0	2.5	150.6	142.1	8.48	17.768		
1,700.0	1,699.8	1,700.2	1,700.2	5.0	3.7	-107.20	-150.0	2.5	151.9	143.3	8.68	17.508		
1,710.0	1,709.8	1,710.2	1,710.2	5.0	3.7	-107.45	-150.0	2.5	152.2	143.5	8.70	17.484		
1,800.0	1,799.5	1,799.9	1,799.9	5.3	3.8	-110.22	-150.0	2.5	154.7	145.8	8.92	17.345		
1,805.0	1,804.4	1,804.8	1,804.8	5.3	3.8	-110.40	-150.0	2.5	154.9	146.0	8.93	17.341		
1,900.0	1,898.7	1,899.1	1,899.1	5.5	3.9	-114.23	-150.0	2.5	159.4	150.2	9.18	17.365		
1,995.0	1,992.5	1,992.9	1,992.9	5.9	3.9	-118.72	-150.0	2.5	166.1	156.6	9.44	17.584		
2,000.0	1,997.5	1,997.9	1,997.9	5.9	3.9	-118.97	-150.0	2.5	166.5	157.0	9.46	17.602		
2,090.0	2,085.8	2,091.6	2,091.6	6.2	4.1	-123.80	-148.8	1.6	174.1	164.2	9.88	17.623		
2,100.0	2,095.6	2,102.1	2,102.0	6.2	4.2	-124.34	-148.5	1.4	175.0	165.0	9.93	17.612		
2,185.0	2,178.5	2,191.0	2,190.8	6.5	4.4	-129.02	-144.9	-1.3	182.2	171.7	10.44	17.445		
2,200.1	2,193.1	2,206.7	2,206.5	6.6	4.4	-129.85	-144.0	-1.9	183.5	172.9	10.54	17.409		
2,280.0	2,270.7	2,290.7	2,290.2	6.8	4.7	-134.22	-138.1	-6.2	189.7	178.7	11.04	17.185		
2,300.0	2,290.1	2,311.8	2,311.2	6.9	4.8	-135.26	-136.3	-7.5	191.0	179.9	11.17	17.106		
2,375.0	2,362.9	2,391.0	2,389.8	7.1	5.0	-139.01	-128.5	-13.2	195.3	183.6	11.67	16.728		
2,400.0	2,387.1	2,417.5	2,416.0	7.2	5.1	-140.22	-125.5	-15.4	196.4	184.6	11.85	16.577		
2,470.0	2,455.0	2,491.7	2,489.3	7.5	5.4	-143.57	-116.0	-22.3	198.7	186.4	12.35	16.088		
2,500.0	2,484.1	2,523.6	2,520.7	7.6	5.5	-144.99	-111.5	-25.6	199.4	186.8	12.57	15.855		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,565.0	2,547.2	2,592.6	2,588.4	7.8	5.7	-148.07	-100.7	-33.5	200.0	186.9	13.07	15.303		
2,600.0	2,581.2	2,629.7	2,624.6	7.9	5.9	-149.75	-94.3	-38.2	199.9	186.6	13.34	14.986		
2,660.0	2,639.4	2,693.3	2,686.5	8.2	6.1	-152.69	-82.6	-46.7	199.1	185.3	13.81	14.414		
2,700.0	2,678.2	2,734.9	2,726.8	8.3	6.2	-154.67	-74.3	-52.8	198.1	184.0	14.08	14.074		
2,755.0	2,731.6	2,789.1	2,779.3	8.5	6.4	-157.30	-63.4	-60.8	196.9	182.4	14.46	13.614		
2,800.0	2,775.2	2,833.4	2,822.3	8.7	6.6	-159.47	-54.4	-67.3	196.2	181.5	14.79	13.265		
2,850.0	2,823.7	2,882.7	2,870.0	8.9	6.7	-161.89	-44.4	-74.6	195.9	180.7	15.17	12.914		
2,878.8	2,851.7	2,911.1	2,897.5	9.0	6.8	-163.29	-38.7	-78.8	195.8	180.4	15.38	12.732		
2,900.0	2,872.3	2,932.0	2,917.7	9.1	6.9	-164.32	-34.5	-81.9	195.8	180.3	15.53	12.607		
2,945.0	2,915.9	2,976.4	2,960.6	9.3	7.1	-166.51	-25.5	-88.4	196.1	180.3	15.86	12.366		
3,000.0	2,969.3	3,030.6	3,013.1	9.5	7.3	-169.16	-14.5	-96.5	196.9	180.6	16.25	12.116		
3,040.0	3,008.1	3,070.0	3,051.3	9.7	7.4	-171.08	-6.5	-102.3	197.7	181.1	16.52	11.962		
3,100.0	3,066.3	3,129.1	3,108.6	9.9	7.7	-173.92	5.4	-111.0	199.3	182.4	16.92	11.776		
3,135.0	3,100.3	3,163.6	3,142.0	10.1	7.8	-175.55	12.4	-116.1	200.5	183.3	17.15	11.690		
3,200.0	3,163.3	3,227.7	3,204.0	10.3	8.1	-178.53	25.3	-125.6	203.1	185.6	17.55	11.572		
3,230.0	3,192.5	3,257.3	3,232.6	10.5	8.2	-179.88	31.3	-129.9	204.5	186.8	17.73	11.535		
3,300.0	3,260.4	3,326.3	3,299.4	10.8	8.5	177.05	45.3	-140.1	208.3	190.1	18.13	11.487		
3,325.0	3,284.6	3,350.9	3,323.3	10.9	8.6	175.98	50.3	-143.8	209.7	191.5	18.27	11.481 SF		
3,400.0	3,357.4	3,424.9	3,394.8	11.2	8.9	172.86	65.2	-154.7	214.6	195.9	18.66	11.502		
3,420.0	3,376.8	3,444.6	3,413.9	11.3	9.0	172.05	69.2	-157.6	216.0	197.2	18.76	11.515		
3,500.0	3,454.4	3,523.4	3,490.3	11.6	9.3	168.93	85.1	-169.2	222.0	202.9	19.14	11.602		
3,515.0	3,469.0	3,538.2	3,504.6	11.7	9.4	168.36	88.1	-171.4	223.2	204.0	19.20	11.623		
3,600.0	3,551.5	3,622.0	3,585.7	12.1	9.7	165.26	105.1	-183.8	230.4	210.9	19.58	11.771		
3,610.0	3,561.2	3,631.9	3,595.2	12.1	9.8	164.90	107.1	-185.3	231.3	211.7	19.62	11.791		
3,700.0	3,648.5	3,720.6	3,681.1	12.5	10.1	161.85	125.0	-198.4	239.7	219.8	19.98	11.997		
3,705.0	3,653.3	3,725.5	3,685.9	12.5	10.2	161.69	126.0	-199.1	240.2	220.2	20.00	12.009		
3,800.0	3,745.5	3,819.1	3,776.6	13.0	10.6	158.71	144.9	-212.9	249.8	229.5	20.37	12.267		
3,895.0	3,837.7	3,912.8	3,867.2	13.4	11.0	155.95	163.9	-226.7	260.1	239.4	20.71	12.555		
3,900.0	3,842.5	3,917.7	3,872.0	13.4	11.0	155.81	164.9	-227.5	260.6	239.9	20.73	12.571		
3,990.0	3,929.9	4,006.4	3,957.9	13.8	11.4	153.41	182.8	-240.6	270.9	249.8	21.05	12.867		
4,000.0	3,939.6	4,016.3	3,967.4	13.9	11.5	153.15	184.8	-242.0	272.0	251.0	21.09	12.901		
4,085.0	4,022.1	4,100.1	4,048.5	14.3	11.8	151.06	201.8	-254.4	282.2	260.8	21.38	13.196		
4,100.0	4,036.6	4,114.9	4,062.9	14.3	11.9	150.70	204.7	-256.6	284.0	262.6	21.44	13.249		
4,180.0	4,114.2	4,193.7	4,139.2	14.7	12.3	148.89	220.7	-268.2	293.9	272.2	21.71	13.536		
4,200.0	4,133.6	4,213.4	4,158.3	14.8	12.4	148.45	224.7	-271.2	296.4	274.6	21.78	13.609		
4,275.0	4,206.4	4,287.4	4,229.9	15.1	12.7	146.89	239.6	-282.1	306.0	284.0	22.04	13.883		
4,300.0	4,230.7	4,312.0	4,253.7	15.3	12.8	146.39	244.6	-285.7	309.3	287.2	22.13	13.975		
4,370.0	4,298.6	4,381.0	4,320.5	15.6	13.1	145.04	258.6	-295.9	318.5	296.1	22.38	14.234		
4,400.0	4,327.7	4,410.6	4,349.1	15.7	13.3	144.49	264.5	-300.3	322.5	300.0	22.48	14.345		
4,465.0	4,390.8	4,474.6	4,411.2	16.0	13.6	143.33	277.5	-309.7	331.3	308.6	22.71	14.585		
4,500.0	4,424.7	4,509.1	4,444.6	16.2	13.7	142.74	284.5	-314.8	336.0	313.2	22.84	14.715		
4,560.0	4,482.9	4,568.3	4,501.8	16.5	14.0	141.75	296.4	-323.6	344.3	321.3	23.05	14.935		
4,600.0	4,521.8	4,607.7	4,540.0	16.6	14.2	141.12	304.4	-329.4	349.9	326.7	23.20	15.081		
4,655.0	4,575.1	4,661.9	4,592.5	16.9	14.5	140.28	315.4	-337.4	357.6	334.2	23.40	15.281		
4,700.0	4,618.8	4,706.3	4,635.4	17.1	14.7	139.63	324.3	-343.9	364.0	340.4	23.57	15.443		
4,750.0	4,667.3	4,755.6	4,683.2	17.3	14.9	138.92	334.3	-351.2	371.1	347.3	23.76	15.621		
4,800.0	4,715.8	4,804.8	4,730.9	17.6	15.1	138.25	344.3	-358.5	378.3	354.3	23.94	15.797		
4,845.0	4,759.5	4,849.2	4,773.8	17.8	15.3	137.66	353.2	-365.1	384.8	360.6	24.12	15.955		
4,900.0	4,812.8	4,903.4	4,826.3	18.0	15.6	136.96	364.2	-373.1	392.8	368.4	24.33	16.145		
4,940.0	4,851.7	4,942.8	4,864.5	18.2	15.8	136.48	372.2	-378.9	398.6	374.1	24.48	16.281		
5,000.0	4,909.9	5,002.0	4,921.7	18.5	16.1	135.77	384.1	-387.6	407.5	382.7	24.72	16.483		

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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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	
5,035.0	4,943.8	5,036.5	4,955.1	18.7	16.2	135.38	391.1	-392.7	412.6	387.8	24.86	16.600	
5,100.0	5,006.9	5,100.6	5,017.2	19.0	16.5	134.67	404.1	-402.2	422.3	397.2	25.12	16.813	
5,130.0	5,036.0	5,130.1	5,045.8	19.1	16.7	134.35	410.0	-406.5	426.8	401.6	25.24	16.910	
5,200.0	5,103.9	5,199.1	5,112.6	19.5	17.0	133.64	424.0	-416.7	437.3	411.8	25.52	17.133	
5,225.0	5,128.2	5,223.8	5,136.4	19.6	17.1	133.39	429.0	-420.4	441.1	415.5	25.63	17.212	
5,300.0	5,201.0	5,297.7	5,208.0	19.9	17.5	132.67	443.9	-431.3	452.4	426.5	25.94	17.444	
5,320.0	5,220.4	5,317.4	5,227.1	20.0	17.6	132.49	447.9	-434.2	455.5	429.5	26.02	17.505	
5,400.0	5,298.0	5,396.3	5,303.5	20.4	17.9	131.77	463.9	-445.9	467.7	441.3	26.36	17.744	
5,415.0	5,312.5	5,411.1	5,317.8	20.5	18.0	131.64	466.9	-448.0	470.0	443.6	26.42	17.789	
5,500.0	5,395.0	5,494.8	5,398.9	20.9	18.4	130.93	483.8	-460.4	483.0	456.2	26.78	18.035	
5,510.0	5,404.7	5,504.7	5,408.4	20.9	18.5	130.84	485.8	-461.9	484.6	457.7	26.83	18.064	
5,600.0	5,492.0	5,593.4	5,494.3	21.4	18.9	130.13	503.7	-475.0	498.5	471.3	27.21	18.317	
5,605.0	5,496.9	5,598.3	5,499.1	21.4	18.9	130.10	504.7	-475.7	499.2	472.0	27.24	18.330	
5,700.0	5,589.1	5,692.0	5,589.7	21.8	19.4	129.39	523.7	-489.5	514.0	486.4	27.65	18.592	
5,795.0	5,681.3	5,785.8	5,680.9	22.3	19.8	128.88	541.5	-502.6	528.8	500.7	28.08	18.832	
5,800.0	5,686.1	5,790.7	5,685.7	22.3	19.8	128.86	542.4	-503.2	529.6	501.5	28.11	18.843	
5,890.0	5,773.4	5,879.7	5,772.9	22.7	20.3	128.72	556.9	-513.8	543.7	515.1	28.56	19.037	
5,900.0	5,783.1	5,889.6	5,782.6	22.8	20.3	128.73	558.4	-514.9	545.2	516.6	28.61	19.056	
5,985.0	5,865.6	5,973.7	5,865.4	23.2	20.7	128.90	570.0	-523.3	558.4	529.4	29.07	19.210	
6,000.0	5,880.2	5,988.5	5,880.1	23.3	20.8	128.95	571.8	-524.7	560.8	531.6	29.15	19.235	
6,080.0	5,957.8	6,067.5	5,958.3	23.7	21.1	129.37	580.5	-531.0	573.2	543.6	29.62	19.355	
6,100.0	5,977.2	6,087.2	5,977.9	23.8	21.2	129.50	582.4	-532.4	576.4	546.6	29.74	19.382	
6,175.0	6,050.0	6,160.8	6,051.1	24.1	21.5	130.12	588.5	-536.9	588.1	557.9	30.20	19.474	
6,200.0	6,074.2	6,185.3	6,075.5	24.2	21.6	130.36	590.2	-538.1	592.1	561.7	30.36	19.500	
6,270.0	6,142.1	6,253.6	6,143.7	24.6	21.9	131.11	594.1	-540.9	603.2	572.4	30.82	19.568	
6,300.0	6,171.2	6,282.8	6,172.8	24.7	22.0	131.48	595.3	-541.9	608.0	577.0	31.03	19.593	
6,365.0	6,234.3	6,345.6	6,235.6	25.0	22.2	132.33	597.2	-543.2	618.6	587.1	31.49	19.642	
6,400.0	6,268.3	6,379.3	6,269.2	25.2	22.3	132.83	597.7	-543.6	624.3	592.6	31.75	19.665	
6,460.0	6,326.5	6,436.9	6,326.9	25.5	22.4	133.74	598.0	-543.8	634.4	602.2	32.19	19.706	
6,500.0	6,365.3	6,475.8	6,365.7	25.7	22.4	134.36	598.0	-543.8	641.3	608.8	32.50	19.730	
6,555.0	6,418.7	6,529.1	6,419.1	25.9	22.4	135.18	598.0	-543.8	650.8	617.8	32.93	19.762	
6,600.0	6,462.3	6,572.8	6,462.7	26.2	22.4	135.84	598.0	-543.8	658.7	625.4	33.29	19.786	
6,650.0	6,510.8	6,621.3	6,511.2	26.4	22.5	136.55	598.0	-543.8	667.5	633.8	33.69	19.814	
6,700.0	6,559.4	6,669.8	6,559.8	26.6	22.5	137.25	598.0	-543.8	676.5	642.4	34.09	19.844	
6,745.0	6,603.0	6,713.5	6,603.4	26.9	22.5	137.86	598.0	-543.8	684.6	650.2	34.45	19.874	
6,772.7	6,629.9	6,740.3	6,630.3	27.0	22.5	138.23	598.0	-543.8	689.7	655.0	34.67	19.894	
6,800.0	6,656.4	6,766.9	6,656.8	27.1	22.5	138.64	598.0	-543.8	694.6	659.7	34.88	19.914	
6,840.0	6,695.4	6,805.8	6,695.8	27.3	22.5	139.22	598.0	-543.8	701.5	666.3	35.19	19.932	
6,900.0	6,754.1	6,864.5	6,754.5	27.6	22.6	140.00	598.0	-543.8	711.1	675.4	35.65	19.947	
6,935.0	6,788.4	6,898.9	6,788.8	27.8	22.6	140.41	598.0	-543.8	716.3	680.4	35.90	19.952	
7,000.0	6,852.4	6,962.9	6,852.8	28.1	22.6	141.09	598.0	-543.8	725.2	688.8	36.35	19.948	
7,030.0	6,882.0	6,992.5	6,882.4	28.2	22.6	141.37	598.0	-543.8	728.9	692.4	36.55	19.943	
7,100.0	6,951.3	7,061.8	6,951.7	28.5	22.6	141.95	598.0	-543.8	736.8	699.8	36.99	19.918	
7,125.0	6,976.1	7,086.6	6,976.5	28.6	22.7	142.13	598.0	-543.8	739.2	702.1	37.14	19.907	
7,200.0	7,050.7	7,234.7	7,123.2	29.0	22.8	144.14	580.6	-543.9	742.3	703.8	38.48	19.292	
7,220.0	7,070.6	7,273.4	7,160.4	29.0	22.8	145.05	569.8	-544.0	741.6	702.7	38.91	19.058	
7,300.0	7,150.4	7,410.2	7,284.2	29.3	22.9	149.58	512.4	-544.5	734.1	693.3	40.81	17.987	
7,315.0	7,165.3	7,432.3	7,302.8	29.4	22.9	150.51	500.5	-544.6	732.0	690.9	41.17	17.782	
7,400.0	7,250.3	7,538.0	7,384.6	29.7	23.0	155.69	433.8	-545.1	718.8	675.7	43.09	16.681	
7,410.0	7,260.3	7,548.4	7,391.9	29.7	23.0	156.27	426.4	-545.2	717.2	673.9	43.28	16.571	
7,472.7	7,323.0	7,606.1	7,430.2	29.8	23.1	83.43	383.2	-545.5	707.2	662.9	44.31	15.959	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		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)			
7,500.0	7,350.3	7,627.5	7,443.2	29.8	23.1	84.80	366.3	-545.6	703.3	658.7	44.64	15.756	
7,505.0	7,355.3	7,631.2	7,445.4	29.8	23.1	85.05	363.4	-545.7	702.7	658.0	44.69	15.722	
7,600.0	7,450.3	7,690.6	7,478.0	29.8	23.2	89.14	313.6	-546.1	694.6	649.2	45.33	15.321	
7,636.3	7,486.5	7,708.9	7,487.0	29.8	23.2	90.45	297.7	-546.2	693.8	648.5	45.38	15.291	
7,695.0	7,545.3	7,734.5	7,498.6	29.8	23.2	92.34	274.9	-546.4	695.8	650.6	45.22	15.388	
7,700.0	7,550.3	7,736.5	7,499.5	29.8	23.2	92.48	273.1	-546.4	696.2	651.0	45.19	15.405	
7,790.0	7,640.3	7,767.9	7,512.3	29.9	23.2	94.84	244.5	-546.6	707.6	663.2	44.41	15.933	
7,800.0	7,650.3	7,770.9	7,513.5	29.9	23.2	95.07	241.7	-546.6	709.5	665.2	44.29	16.018	
7,885.0	7,735.3	7,800.0	7,523.8	29.9	23.2	97.29	214.5	-546.8	730.2	687.0	43.23	16.890	
7,900.0	7,750.3	7,800.0	7,523.8	29.9	23.2	97.29	214.5	-546.8	734.7	691.8	42.90	17.127	
7,980.0	7,830.3	7,814.8	7,528.5	29.9	23.3	98.43	200.5	-547.0	763.0	721.6	41.43	18.418	
8,000.0	7,850.3	7,818.6	7,529.6	29.9	23.3	98.73	196.8	-547.0	771.1	730.1	41.06	18.782	
8,075.0	7,925.3	7,831.8	7,533.4	30.0	23.3	99.74	184.2	-547.1	805.1	765.4	39.65	20.305	
8,100.0	7,950.3	7,835.7	7,534.5	30.0	23.3	100.05	180.4	-547.1	817.5	778.3	39.18	20.865	
8,170.0	8,020.3	7,850.0	7,538.2	30.0	23.3	101.15	166.6	-547.2	855.2	817.2	37.99	22.511	
8,200.0	8,050.3	7,850.0	7,538.2	30.0	23.3	101.15	166.6	-547.2	872.4	835.1	37.38	23.337	
8,265.0	8,115.3	7,850.0	7,538.2	30.0	23.3	101.15	166.6	-547.2	912.1	876.0	36.16	25.223	
8,300.0	8,150.3	7,850.0	7,538.2	30.0	23.3	101.15	166.6	-547.2	934.7	899.1	35.56	26.285	
8,360.0	8,210.3	7,867.9	7,542.4	30.0	23.3	102.53	149.3	-547.4	974.7	939.8	34.91	27.917	
8,400.0	8,250.3	7,871.7	7,543.2	30.1	23.3	102.83	145.5	-547.4	1,002.5	968.1	34.39	29.149	
8,455.0	8,305.3	7,876.6	7,544.2	30.1	23.3	103.20	140.7	-547.4	1,042.0	1,008.3	33.74	30.882	
8,500.0	8,350.3	7,880.3	7,544.9	30.1	23.3	103.49	137.1	-547.5	1,075.4	1,042.1	33.26	32.327	
8,529.8	8,380.0	7,882.7	7,545.4	30.1	23.3	103.67	134.8	-547.5	1,097.8	1,064.9	32.97	33.296	
8,550.0	8,400.3	7,884.4	7,545.7	30.1	23.3	-74.38	133.1	-547.5	1,113.2	1,080.8	32.46	34.298	
8,600.0	8,450.1	7,900.0	7,548.5	30.1	23.3	-67.71	117.7	-547.6	1,151.5	1,119.3	32.15	35.814	
8,645.0	8,494.5	7,900.0	7,548.5	30.1	23.3	-62.98	117.7	-547.6	1,185.5	1,153.8	31.72	37.372	
8,650.0	8,499.4	7,900.0	7,548.5	30.1	23.3	-62.47	117.7	-547.6	1,189.3	1,157.6	31.68	37.545	
8,700.0	8,547.8	7,900.0	7,548.5	30.1	23.3	-57.59	117.7	-547.6	1,226.7	1,195.5	31.25	39.261	
8,740.0	8,585.6	7,900.0	7,548.5	30.1	23.3	-53.99	117.7	-547.6	1,256.2	1,225.2	30.93	40.609	
8,750.0	8,594.9	7,900.0	7,548.5	30.1	23.3	-53.13	117.7	-547.6	1,263.5	1,232.6	30.86	40.941	
8,800.0	8,640.4	7,920.9	7,551.5	30.1	23.3	-48.33	97.1	-547.8	1,298.9	1,268.1	30.72	42.274	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7106-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		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	
5,100.0	5,006.9	5,309.6	5,219.5	19.0	17.5	-8.25	322.8	-2,054.2	1,310.5	1,279.6	30.91	42.398		
5,130.0	5,036.0	5,337.0	5,246.0	19.1	17.6	-8.03	328.1	-2,049.8	1,299.2	1,268.1	31.11	41.762		
5,200.0	5,103.9	5,400.9	5,307.9	19.5	17.9	-7.48	340.4	-2,039.6	1,273.0	1,241.5	31.58	40.317		
5,225.0	5,128.2	5,423.7	5,330.0	19.6	18.1	-7.28	344.8	-2,035.9	1,263.7	1,232.0	31.74	39.813		
5,300.0	5,201.0	5,492.1	5,396.2	19.9	18.4	-6.67	357.9	-2,025.0	1,235.8	1,203.6	32.23	38.339		
5,320.0	5,220.4	5,510.4	5,413.9	20.0	18.5	-6.50	361.4	-2,022.0	1,228.4	1,196.0	32.36	37.956		
5,400.0	5,298.0	5,583.4	5,484.6	20.4	18.8	-5.81	375.5	-2,010.3	1,198.8	1,166.0	32.88	36.460		
5,415.0	5,312.5	5,597.1	5,497.9	20.5	18.9	-5.67	378.1	-2,008.1	1,193.3	1,160.3	32.98	36.187		
5,500.0	5,395.0	5,674.7	5,573.0	20.9	19.3	-4.89	393.1	-1,995.7	1,162.1	1,128.6	33.52	34.674		
5,510.0	5,404.7	5,683.8	5,581.8	20.9	19.3	-4.80	394.8	-1,994.2	1,158.5	1,124.9	33.58	34.501		
5,600.0	5,492.0	5,766.0	5,661.4	21.4	19.7	-3.92	410.6	-1,981.1	1,125.7	1,091.5	34.14	32.977		
5,605.0	5,496.9	5,770.5	5,665.8	21.4	19.7	-3.87	411.5	-1,980.3	1,123.9	1,089.7	34.17	32.894		
5,700.0	5,589.1	5,857.2	5,749.7	21.8	20.1	-2.88	428.2	-1,966.5	1,089.5	1,054.8	34.74	31.363		
5,795.0	5,681.3	5,944.0	5,833.7	22.3	20.6	-1.84	444.9	-1,952.6	1,055.5	1,020.2	35.30	29.905		
5,800.0	5,686.1	5,948.5	5,838.1	22.3	20.6	-1.78	445.8	-1,951.8	1,053.8	1,018.4	35.33	29.830		
5,890.0	5,773.4	6,030.7	5,917.6	22.7	21.0	-0.73	461.6	-1,938.7	1,021.9	986.0	35.84	28.515		
5,900.0	5,783.1	6,039.8	5,926.5	22.8	21.0	-0.60	463.3	-1,937.2	1,018.3	982.5	35.89	28.373		
5,985.0	5,865.6	6,117.4	6,001.6	23.2	21.4	0.46	478.3	-1,924.8	988.6	952.2	36.35	27.193		
6,000.0	5,880.2	6,131.1	6,014.8	23.3	21.5	0.65	480.9	-1,922.6	983.4	946.9	36.43	26.990		
6,080.0	5,957.8	6,200.0	6,081.6	23.7	21.8	1.66	494.2	-1,911.5	955.7	918.9	36.86	25.927		
6,100.0	5,977.2	6,218.9	6,099.8	23.8	21.9	1.93	497.7	-1,908.6	948.9	911.9	36.96	25.672		
6,175.0	6,050.0	6,279.6	6,158.9	24.1	22.2	2.81	508.5	-1,899.6	923.9	886.5	37.38	24.717		
6,200.0	6,074.2	6,300.0	6,178.8	24.2	22.3	3.09	511.9	-1,896.7	915.7	878.2	37.52	24.409		
6,270.0	6,142.1	6,357.8	6,235.5	24.6	22.6	3.88	521.0	-1,889.2	893.4	855.5	37.89	23.579		
6,300.0	6,171.2	6,382.8	6,260.0	24.7	22.7	4.21	524.7	-1,886.1	884.1	846.0	38.05	23.234		
6,365.0	6,234.3	6,437.4	6,313.7	25.0	22.9	4.90	532.1	-1,879.9	864.3	825.9	38.39	22.511		
6,400.0	6,268.3	6,467.1	6,343.0	25.2	23.1	5.25	535.8	-1,876.9	853.8	815.2	38.58	22.134		
6,460.0	6,326.5	6,518.3	6,393.7	25.5	23.3	5.84	541.6	-1,872.0	836.3	797.4	38.89	21.506		
6,500.0	6,365.3	6,552.7	6,427.8	25.7	23.5	6.21	545.2	-1,869.1	824.9	785.8	39.09	21.101		
6,555.0	6,418.7	6,600.0	6,474.7	25.9	23.7	6.69	549.5	-1,865.5	809.5	770.1	39.38	20.558		
6,600.0	6,462.3	6,639.6	6,514.1	26.2	23.8	7.07	552.7	-1,862.8	797.2	757.5	39.60	20.129		
6,650.0	6,510.8	6,683.5	6,557.8	26.4	24.0	7.45	555.7	-1,860.3	783.7	743.9	39.86	19.662		
6,700.0	6,559.4	6,727.7	6,601.8	26.6	24.2	7.79	558.2	-1,858.2	770.6	730.5	40.12	19.208		
6,745.0	6,603.0	6,767.6	6,641.7	26.9	24.3	8.07	560.0	-1,856.7	759.0	718.6	40.35	18.811		
6,772.7	6,629.9	6,792.2	6,666.3	27.0	24.4	8.23	561.0	-1,855.9	751.9	711.4	40.49	18.570		
6,800.0	6,656.4	6,816.7	6,690.7	27.1	24.5	8.35	561.7	-1,855.3	745.2	704.5	40.63	18.342		
6,840.0	6,695.4	6,852.7	6,726.7	27.3	24.6	8.49	562.5	-1,854.6	735.9	695.0	40.84	18.019		
6,900.0	6,754.1	6,907.0	6,781.1	27.6	24.8	8.65	563.1	-1,854.1	723.2	682.1	41.17	17.569		
6,935.0	6,788.4	6,940.5	6,814.5	27.8	24.8	8.71	563.1	-1,854.1	716.6	675.2	41.33	17.336		
7,000.0	6,852.4	7,004.5	6,878.5	28.1	24.8	8.81	563.1	-1,854.1	705.3	663.6	41.64	16.937		
7,030.0	6,882.0	7,034.1	6,908.1	28.2	24.8	8.86	563.1	-1,854.1	700.6	658.8	41.78	16.767		
7,100.0	6,951.3	7,103.4	6,977.4	28.5	24.8	8.95	563.1	-1,854.1	690.8	648.6	42.12	16.401		
7,125.0	6,976.1	7,146.5	7,020.5	28.6	24.9	8.90	561.7	-1,854.1	687.4	645.2	42.16	16.304		
7,200.0	7,050.7	7,276.5	7,148.0	29.0	24.9	7.14	537.9	-1,854.3	674.3	631.8	42.48	15.873		
7,220.0	7,070.6	7,308.7	7,178.5	29.0	25.0	6.31	527.6	-1,854.4	670.2	627.6	42.63	15.723		
7,300.0	7,150.4	7,423.7	7,281.7	29.3	25.1	2.08	477.3	-1,854.8	652.8	609.2	43.52	15.000		
7,315.0	7,165.3	7,442.7	7,297.7	29.4	25.1	1.18	467.0	-1,854.9	649.5	605.7	43.73	14.853		
7,400.0	7,250.3	7,535.7	7,370.5	29.7	25.1	-3.96	409.4	-1,855.4	632.5	587.4	45.08	14.030		
7,410.0	7,260.3	7,545.1	7,377.4	29.7	25.1	-4.55	402.9	-1,855.5	630.8	585.6	45.23	13.946		
7,472.7	7,323.0	7,598.2	7,413.9	29.8	25.2	-84.32	364.4	-1,855.8	622.2	576.1	46.16	13.480		
7,500.0	7,350.3	7,618.2	7,426.7	29.8	25.2	-85.75	349.0	-1,856.0	619.7	573.2	46.49	13.329		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
7,505.0	7,355.3	7,621.8	7,428.9	29.8	25.2	-86.00	346.3	-1,856.0	619.3	572.8	46.55	13.304		
7,580.0	7,430.3	7,668.4	7,456.4	29.8	25.2	-89.50	308.5	-1,856.3	616.3	569.0	47.28	13.035 CC, ES		
7,600.0	7,450.3	7,679.2	7,462.3	29.8	25.2	-90.34	299.5	-1,856.4	616.6	569.1	47.42	13.002 SF		
7,695.0	7,545.3	7,723.0	7,484.5	29.8	25.3	-93.84	261.8	-1,856.7	624.2	576.5	47.68	13.091		
7,700.0	7,550.3	7,725.0	7,485.5	29.8	25.3	-94.01	260.0	-1,856.7	624.9	577.2	47.67	13.107		
7,790.0	7,640.3	7,757.2	7,499.8	29.9	25.3	-96.65	231.3	-1,857.0	643.1	595.8	47.29	13.599		
7,800.0	7,650.3	7,760.3	7,501.1	29.9	25.3	-96.91	228.4	-1,857.0	645.7	598.5	47.21	13.677		
7,885.0	7,735.3	7,784.3	7,510.6	29.9	25.3	-98.92	206.4	-1,857.2	673.2	626.8	46.36	14.520		
7,900.0	7,750.3	7,788.1	7,512.1	29.9	25.3	-99.23	202.9	-1,857.2	678.9	632.7	46.18	14.701		
7,980.0	7,830.3	7,800.0	7,516.4	29.9	25.3	-100.23	191.8	-1,857.3	713.5	668.5	45.01	15.851		
8,000.0	7,850.3	7,810.5	7,520.0	29.9	25.3	-101.11	181.9	-1,857.4	723.1	678.3	44.79	16.145		
8,075.0	7,925.3	7,824.5	7,524.5	30.0	25.3	-102.29	168.6	-1,857.5	762.7	719.0	43.65	17.471		
8,100.0	7,950.3	7,828.8	7,525.8	30.0	25.3	-102.65	164.6	-1,857.6	776.9	733.6	43.27	17.954		
8,170.0	8,020.3	7,850.0	7,531.9	30.0	25.4	-104.43	144.3	-1,857.7	819.5	777.2	42.31	19.367		
8,200.0	8,050.3	7,850.0	7,531.9	30.0	25.4	-104.43	144.3	-1,857.7	838.6	796.8	41.83	20.046		
8,265.0	8,115.3	7,850.0	7,531.9	30.0	25.4	-104.43	144.3	-1,857.7	882.2	841.4	40.85	21.595		
8,300.0	8,150.3	7,850.0	7,531.9	30.0	25.4	-104.43	144.3	-1,857.7	906.7	866.4	40.36	22.467		
8,360.0	8,210.3	7,850.0	7,531.9	30.0	25.4	-104.43	144.3	-1,857.7	950.3	910.8	39.57	24.015		
8,400.0	8,250.3	7,868.0	7,536.5	30.1	25.4	-105.93	126.8	-1,857.9	980.0	940.7	39.23	24.983		
8,455.0	8,305.3	7,873.4	7,537.7	30.1	25.4	-106.38	121.6	-1,857.9	1,022.1	983.4	38.65	26.447		
8,500.0	8,350.3	7,877.6	7,538.7	30.1	25.4	-106.72	117.5	-1,858.0	1,057.4	1,019.2	38.21	27.670		
8,529.8	8,380.0	7,880.2	7,539.2	30.1	25.4	-106.94	115.0	-1,858.0	1,081.1	1,043.2	37.94	28.493		
8,550.0	8,400.3	7,882.0	7,539.6	30.1	25.4	69.87	113.2	-1,858.0	1,097.3	1,059.3	38.04	28.845		
8,600.0	8,450.1	7,900.0	7,543.2	30.1	25.4	62.50	95.6	-1,858.2	1,137.5	1,099.7	37.71	30.160		
8,645.0	8,494.5	7,900.0	7,543.2	30.1	25.4	57.52	95.6	-1,858.2	1,172.9	1,135.5	37.36	31.393		
8,650.0	8,499.4	7,900.0	7,543.2	30.1	25.4	57.00	95.6	-1,858.2	1,176.8	1,139.5	37.33	31.528		
8,700.0	8,547.8	7,900.0	7,543.2	30.1	25.4	52.03	95.6	-1,858.2	1,215.5	1,178.5	36.98	32.866		
8,740.0	8,585.6	7,900.0	7,543.2	30.1	25.4	48.45	95.6	-1,858.2	1,245.8	1,209.1	36.74	33.906		
8,750.0	8,594.9	7,900.0	7,543.2	30.1	25.4	47.62	95.6	-1,858.2	1,253.3	1,216.6	36.69	34.161		
8,800.0	8,640.4	7,919.8	7,546.5	30.1	25.4	43.05	76.1	-1,858.3	1,289.6	1,253.1	36.52	35.308		
8,835.0	8,671.0	7,926.8	7,547.5	30.1	25.4	40.51	69.2	-1,858.4	1,314.2	1,277.8	36.40	36.101		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft		
Measured	Reference	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.0	0.0	3.0	3.0	167.76	-149.4	32.4	152.9					
95.0	95.0	95.0	95.0	3.0	3.0	167.76	-149.4	32.4	152.9	146.9	6.02	25.402		
100.0	100.0	100.0	100.0	3.0	3.0	167.76	-149.4	32.4	152.9	146.9	6.02	25.390		
190.0	190.0	190.0	190.0	3.1	3.0	167.76	-149.4	32.4	152.9	146.7	6.13	24.925		
200.0	200.0	200.0	200.0	3.1	3.0	167.76	-149.4	32.4	152.9	146.7	6.15	24.851		
285.0	285.0	285.0	285.0	3.3	3.0	167.76	-149.4	32.4	152.9	146.6	6.26	24.405		
300.0	300.0	300.0	300.0	3.3	3.0	167.76	-149.4	32.4	152.9	146.6	6.29	24.317		
380.0	380.0	380.0	380.0	3.4	3.0	167.76	-149.4	32.4	152.9	146.5	6.40	23.900		
400.0	400.0	400.0	400.0	3.4	3.0	167.76	-149.4	32.4	152.9	146.4	6.43	23.789		
475.0	475.0	475.0	475.0	3.5	3.0	167.76	-149.4	32.4	152.9	146.3	6.53	23.402		
500.0	500.0	500.0	500.0	3.5	3.1	167.76	-149.4	32.4	152.9	146.3	6.57	23.268		
570.0	570.0	570.0	570.0	3.6	3.1	167.76	-149.4	32.4	152.9	146.2	6.67	22.911		
600.0	600.0	600.0	600.0	3.6	3.1	167.76	-149.4	32.4	152.9	146.2	6.72	22.754		
665.0	665.0	665.0	665.0	3.7	3.1	167.76	-149.4	32.4	152.9	146.1	6.82	22.427		
700.0	700.0	700.0	700.0	3.8	3.1	167.76	-149.4	32.4	152.9	146.0	6.87	22.248		
760.0	760.0	760.0	760.0	3.8	3.1	167.76	-149.4	32.4	152.9	145.9	6.96	21.951		
800.0	800.0	800.0	800.0	3.9	3.2	167.76	-149.4	32.4	152.9	145.8	7.03	21.750		
855.0	855.0	855.0	855.0	4.0	3.2	167.76	-149.4	32.4	152.9	145.8	7.12	21.483		
900.0	900.0	900.0	900.0	4.0	3.2	167.76	-149.4	32.4	152.9	145.7	7.19	21.262		
950.0	950.0	950.0	950.0	4.1	3.2	167.76	-149.4	32.4	152.9	145.6	7.27	21.023		
1,000.0	1,000.0	1,000.0	1,000.0	4.1	3.2	167.76	-149.4	32.4	152.9	145.5	7.36	20.784		
1,045.0	1,045.0	1,045.0	1,045.0	4.2	3.3	167.76	-149.4	32.4	152.9	145.4	7.43	20.573		
1,100.0	1,100.0	1,100.0	1,100.0	4.2	3.3	167.76	-149.4	32.4	152.9	145.3	7.52	20.316		
1,140.0	1,140.0	1,140.0	1,140.0	4.3	3.3	167.76	-149.4	32.4	152.9	145.3	7.59	20.133		
1,200.0	1,200.0	1,200.0	1,200.0	4.4	3.4	167.76	-149.4	32.4	152.9	145.2	7.70	19.859		
1,235.0	1,235.0	1,235.0	1,235.0	4.4	3.4	167.76	-149.4	32.4	152.9	145.1	7.76	19.702		
1,300.0	1,300.0	1,300.0	1,300.0	4.5	3.4	167.76	-149.4	32.4	152.9	145.0	7.87	19.413		
1,330.0	1,330.0	1,330.0	1,330.0	4.5	3.4	167.76	-149.4	32.4	152.9	144.9	7.93	19.282		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	3.5	167.76	-149.4	32.4	152.9	144.8	8.06	18.979		
1,425.0	1,425.0	1,425.0	1,425.0	4.6	3.5	167.76	-149.4	32.4	152.9	144.8	8.10	18.872		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	3.5	167.76	-149.4	32.4	152.9	144.6	8.24	18.556 CC		
1,520.0	1,520.0	1,520.0	1,520.0	4.7	3.6	-116.00	-149.4	32.4	152.9	144.6	8.27	18.481 ES		
1,600.0	1,600.0	1,600.0	1,600.0	4.8	3.6	-116.55	-149.4	32.4	153.6	145.2	8.42	18.242		
1,615.0	1,615.0	1,615.0	1,615.0	4.9	3.6	-116.73	-149.4	32.4	153.9	145.4	8.46	18.195		
1,700.0	1,699.8	1,699.8	1,699.8	5.0	3.7	-118.22	-149.4	32.4	156.1	147.4	8.67	18.009		
1,710.0	1,709.8	1,709.8	1,709.8	5.0	3.7	-118.45	-149.4	32.4	156.4	147.7	8.69	17.997		
1,800.0	1,799.5	1,799.5	1,799.5	5.3	3.8	-120.88	-149.4	32.4	160.4	151.5	8.92	17.986 SF		
1,805.0	1,804.4	1,804.4	1,804.4	5.3	3.8	-121.04	-149.4	32.4	160.6	151.7	8.93	17.991		
1,900.0	1,898.7	1,898.7	1,898.7	5.5	3.9	-124.35	-149.4	32.4	167.0	157.8	9.18	18.185		
1,995.0	1,992.5	1,992.5	1,992.5	5.9	3.9	-128.16	-149.4	32.4	175.8	166.3	9.46	18.589		
2,000.0	1,997.5	1,997.5	1,997.5	5.9	3.9	-128.37	-149.4	32.4	176.3	166.9	9.47	18.616		
2,090.0	2,085.8	2,091.0	2,091.0	6.2	4.2	-132.70	-148.0	32.4	186.3	176.4	9.89	18.830		
2,100.0	2,095.6	2,101.4	2,101.4	6.2	4.2	-133.22	-147.6	32.4	187.4	177.5	9.94	18.852		
2,185.0	2,178.5	2,189.3	2,189.2	6.5	4.5	-137.90	-143.1	32.4	197.4	187.0	10.42	18.940		
2,200.1	2,193.1	2,204.9	2,204.7	6.6	4.5	-138.77	-142.1	32.4	199.3	188.8	10.51	18.961		
2,280.0	2,270.7	2,287.2	2,286.7	6.8	4.8	-143.52	-135.0	32.5	209.1	198.2	10.95	19.100		
2,300.0	2,290.1	2,307.7	2,307.1	6.9	4.8	-144.70	-132.9	32.5	211.5	200.5	11.06	19.125		
2,375.0	2,362.9	2,384.7	2,383.5	7.1	5.1	-149.11	-123.6	32.5	220.3	208.8	11.48	19.191		
2,400.0	2,387.1	2,410.3	2,408.9	7.2	5.2	-150.58	-120.1	32.5	223.2	211.6	11.62	19.209		
2,470.0	2,455.0	2,481.7	2,479.5	7.5	5.4	-154.71	-109.0	32.6	231.3	219.2	12.02	19.247		
2,500.0	2,484.1	2,512.2	2,509.5	7.6	5.5	-156.49	-103.7	32.6	234.7	222.5	12.17	19.280		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
2,565.0	2,547.2	2,577.9	2,574.0	7.8	5.7	-160.34	-91.3	32.7	242.3	229.8	12.49	19.403
2,600.0	2,581.2	2,611.6	2,607.0	7.9	5.8	-162.29	-84.6	32.7	246.7	234.0	12.64	19.510
2,660.0	2,639.4	2,669.3	2,663.5	8.2	6.0	-165.48	-73.1	32.8	254.7	241.8	12.95	19.663
2,700.0	2,678.2	2,707.8	2,701.2	8.3	6.1	-167.50	-65.4	32.8	260.6	247.4	13.16	19.797
2,755.0	2,731.6	2,760.7	2,753.1	8.5	6.3	-170.14	-54.9	32.9	269.1	255.6	13.45	20.010
2,800.0	2,775.2	2,804.0	2,795.5	8.7	6.4	-172.18	-46.2	32.9	276.5	262.8	13.68	20.210
2,850.0	2,823.7	2,852.1	2,842.7	8.9	6.6	-174.32	-36.6	32.9	285.0	271.1	13.94	20.453
2,900.0	2,872.3	2,900.2	2,889.8	9.1	6.8	-176.35	-27.0	33.0	294.0	279.8	14.19	20.714
2,945.0	2,915.9	2,943.5	2,932.2	9.3	6.9	-178.06	-18.4	33.0	302.4	288.0	14.43	20.962
3,000.0	2,969.3	2,996.4	2,984.1	9.5	7.1	-179.96	-7.8	33.1	313.0	298.3	14.71	21.279
3,040.0	3,008.1	3,034.9	3,021.8	9.7	7.2	-178.60	-0.2	33.1	320.9	306.0	14.92	21.516
3,100.0	3,066.3	3,092.6	3,078.3	9.9	7.5	-176.68	11.3	33.2	333.1	317.9	15.23	21.880
3,135.0	3,100.3	3,126.2	3,111.3	10.1	7.6	-175.62	18.1	33.2	340.4	325.0	15.41	22.094
3,200.0	3,163.3	3,188.8	3,172.6	10.3	7.8	-173.77	30.5	33.3	354.2	338.5	15.74	22.498
3,230.0	3,192.5	3,217.6	3,200.9	10.5	7.9	-172.96	36.3	33.3	360.7	344.8	15.90	22.684
3,300.0	3,260.4	3,285.0	3,266.9	10.8	8.2	-171.18	49.7	33.4	376.1	359.8	16.27	23.121
3,325.0	3,284.6	3,309.0	3,290.4	10.9	8.3	-170.58	54.5	33.4	381.7	365.3	16.40	23.275
3,400.0	3,357.4	3,381.2	3,361.1	11.2	8.6	-168.88	68.9	33.5	398.7	381.9	16.80	23.738
3,420.0	3,376.8	3,400.4	3,380.0	11.3	8.7	-168.45	72.7	33.5	403.3	386.4	16.90	23.859
3,500.0	3,454.4	3,477.4	3,455.4	11.6	9.0	-166.82	88.1	33.6	421.8	404.5	17.33	24.342
3,515.0	3,469.0	3,491.8	3,469.5	11.7	9.0	-166.53	91.0	33.6	425.3	407.9	17.41	24.431
3,600.0	3,551.5	3,573.6	3,549.7	12.1	9.4	-164.97	107.3	33.6	445.4	427.5	17.87	24.929
3,610.0	3,561.2	3,583.2	3,559.1	12.1	9.4	-164.79	109.2	33.7	447.8	429.8	17.92	24.986
3,700.0	3,648.5	3,669.8	3,643.9	12.5	9.8	-163.30	126.5	33.7	469.4	451.0	18.41	25.495
3,705.0	3,653.3	3,674.6	3,648.7	12.5	9.8	-163.22	127.4	33.7	470.6	452.1	18.44	25.523
3,800.0	3,745.5	3,766.0	3,738.2	13.0	10.2	-161.80	145.6	33.8	493.7	474.8	18.96	26.040
3,895.0	3,837.7	3,857.4	3,827.8	13.4	10.6	-160.50	163.9	33.9	517.1	497.6	19.49	26.535
3,900.0	3,842.5	3,862.2	3,832.5	13.4	10.6	-160.44	164.8	33.9	518.3	498.8	19.52	26.561
3,990.0	3,929.9	3,948.8	3,917.3	13.8	11.0	-159.31	182.1	34.0	540.7	520.7	20.02	27.010
4,000.0	3,939.6	3,958.4	3,926.8	13.9	11.0	-159.19	184.0	34.0	543.2	523.2	20.08	27.059
4,085.0	4,022.1	4,040.2	4,006.9	14.3	11.3	-158.22	200.3	34.1	564.6	544.0	20.56	27.464
4,100.0	4,036.6	4,054.6	4,021.0	14.3	11.4	-158.06	203.2	34.1	568.3	547.7	20.64	27.534
4,180.0	4,114.2	4,131.6	4,096.4	14.7	11.7	-157.22	218.6	34.2	588.6	567.5	21.10	27.898
4,200.0	4,133.6	4,150.8	4,115.3	14.8	11.8	-157.02	222.4	34.2	593.6	572.4	21.21	27.987
4,275.0	4,206.4	4,223.0	4,186.0	15.1	12.1	-156.30	236.8	34.3	612.7	591.1	21.64	28.312
4,300.0	4,230.7	4,247.0	4,209.6	15.3	12.2	-156.07	241.6	34.3	619.1	597.3	21.79	28.418
4,370.0	4,298.6	4,314.4	4,275.6	15.6	12.5	-155.44	255.0	34.4	637.0	614.8	22.19	28.706
4,400.0	4,327.7	4,343.2	4,303.8	15.7	12.7	-155.19	260.8	34.4	644.7	622.4	22.36	28.828
4,465.0	4,390.8	4,405.7	4,365.1	16.0	12.9	-154.65	273.2	34.5	661.4	638.7	22.74	29.083
4,500.0	4,424.7	4,439.4	4,398.1	16.2	13.1	-154.38	280.0	34.5	670.5	647.5	22.95	29.217
4,560.0	4,482.9	4,497.1	4,454.7	16.5	13.4	-153.92	291.5	34.5	686.0	662.7	23.30	29.442
4,600.0	4,521.8	4,535.6	4,492.4	16.6	13.5	-153.62	299.1	34.6	696.3	672.8	23.53	29.588
4,655.0	4,575.1	4,588.5	4,544.2	16.9	13.8	-153.23	309.7	34.6	710.6	686.8	23.86	29.785
4,700.0	4,618.8	4,631.8	4,586.7	17.1	14.0	-152.92	318.3	34.7	722.3	698.2	24.12	29.941
4,750.0	4,667.3	4,679.9	4,633.8	17.3	14.2	-152.59	327.9	34.7	735.3	710.9	24.42	30.111
4,800.0	4,715.8	4,728.0	4,680.9	17.6	14.4	-152.27	337.5	34.8	748.4	723.7	24.72	30.277
4,845.0	4,759.5	4,771.3	4,723.3	17.8	14.6	-151.99	346.2	34.8	760.1	735.2	24.99	30.423
4,900.0	4,812.8	4,824.2	4,775.2	18.0	14.8	-151.67	356.7	34.9	774.5	749.2	25.31	30.597
4,940.0	4,851.7	4,862.7	4,812.9	18.2	15.0	-151.43	364.4	34.9	785.0	759.5	25.55	30.721
5,000.0	4,909.9	4,920.4	4,869.5	18.5	15.2	-151.10	375.9	34.9	800.8	774.8	25.91	30.902
5,035.0	4,943.8	4,954.1	4,902.5	18.7	15.4	-150.91	382.6	35.0	810.0	783.8	26.12	31.005

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,100.0	5,006.9	5,016.6	4,963.7	19.0	15.7	150.57	395.1	35.0	827.1	800.5	26.51	31.192		
5,130.0	5,036.0	5,045.5	4,992.0	19.1	15.8	150.41	400.8	35.1	835.0	808.3	26.70	31.277		
5,200.0	5,103.9	5,112.8	5,058.0	19.5	16.1	150.07	414.3	35.1	853.4	826.3	27.12	31.469		
5,225.0	5,128.2	5,136.9	5,081.6	19.6	16.2	149.95	419.1	35.2	860.0	832.7	27.27	31.537		
5,300.0	5,201.0	5,209.0	5,152.3	19.9	16.5	149.60	433.5	35.2	879.8	852.1	27.73	31.734		
5,320.0	5,220.4	5,228.3	5,171.1	20.0	16.6	149.51	437.3	35.2	885.1	857.3	27.85	31.785		
5,400.0	5,298.0	5,305.2	5,246.5	20.4	17.0	149.15	452.6	35.3	906.3	878.0	28.33	31.986		
5,415.0	5,312.5	5,319.7	5,260.7	20.5	17.1	149.09	455.5	35.3	910.3	881.9	28.43	32.023		
5,500.0	5,395.0	5,401.5	5,340.8	20.9	17.4	148.74	471.8	35.4	932.8	903.9	28.95	32.227		
5,510.0	5,404.7	5,411.1	5,350.2	20.9	17.5	148.70	473.7	35.4	935.5	906.5	29.01	32.251		
5,600.0	5,492.0	5,497.7	5,435.1	21.4	17.9	148.34	491.0	35.5	959.4	929.8	29.56	32.458		
5,605.0	5,496.9	5,502.5	5,439.8	21.4	17.9	148.32	492.0	35.5	960.7	931.1	29.59	32.469		
5,700.0	5,589.1	5,593.9	5,529.4	21.8	18.3	147.97	510.2	35.6	986.0	955.8	30.17	32.678		
5,795.0	5,681.3	5,685.2	5,618.9	22.3	18.7	147.63	528.4	35.7	1,011.3	980.5	30.76	32.879		
5,800.0	5,686.1	5,690.1	5,623.6	22.3	18.7	147.62	529.4	35.7	1,012.6	981.8	30.79	32.889		
5,890.0	5,773.4	5,776.6	5,708.5	22.7	19.1	147.31	546.7	35.8	1,036.6	1,005.3	31.34	33.072		
5,900.0	5,783.1	5,786.3	5,717.9	22.8	19.2	147.28	548.6	35.8	1,039.3	1,007.9	31.41	33.092		
5,985.0	5,865.6	5,874.1	5,804.1	23.2	19.6	147.01	565.6	35.9	1,061.9	1,029.9	31.94	33.240		
6,000.0	5,880.2	5,890.5	5,820.2	23.3	19.7	146.98	568.6	35.9	1,065.8	1,033.7	32.05	33.258		
6,080.0	5,957.8	5,978.4	5,907.0	23.7	20.1	146.88	582.7	36.0	1,086.2	1,053.6	32.59	33.327		
6,100.0	5,977.2	6,000.5	5,928.8	23.8	20.2	146.88	585.9	36.0	1,091.2	1,058.4	32.73	33.340		
6,175.0	6,050.0	6,083.4	6,011.1	24.1	20.5	146.94	596.2	36.0	1,109.4	1,076.2	33.23	33.387		
6,200.0	6,074.2	6,111.1	6,038.6	24.2	20.6	146.99	599.1	36.0	1,115.4	1,082.0	33.39	33.400		
6,270.0	6,142.1	6,188.8	6,116.0	24.6	20.9	147.19	605.8	36.1	1,131.6	1,097.8	33.85	33.432		
6,300.0	6,171.2	6,222.1	6,149.3	24.7	21.1	147.31	608.0	36.1	1,138.4	1,104.3	34.04	33.445		
6,365.0	6,234.3	6,294.3	6,221.4	25.0	21.3	147.62	611.5	36.1	1,152.7	1,118.3	34.44	33.468		
6,400.0	6,268.3	6,333.2	6,260.2	25.2	21.4	147.82	612.7	36.1	1,160.3	1,125.6	34.65	33.488		
6,460.0	6,326.5	6,399.5	6,326.5	25.5	21.6	148.21	613.4	36.1	1,172.9	1,137.9	34.99	33.519		
6,500.0	6,365.3	6,438.3	6,365.3	25.7	21.6	148.46	613.4	36.1	1,181.2	1,146.0	35.19	33.565		
6,555.0	6,418.7	6,491.6	6,418.7	25.9	21.6	148.79	613.4	36.1	1,192.6	1,157.2	35.47	33.626		
6,600.0	6,462.3	6,535.3	6,462.3	26.2	21.6	149.06	613.4	36.1	1,202.0	1,166.3	35.70	33.675		
6,650.0	6,510.8	6,583.8	6,510.8	26.4	21.6	149.35	613.4	36.1	1,212.5	1,176.6	35.95	33.728		
6,700.0	6,559.4	6,632.3	6,559.4	26.6	21.7	149.63	613.4	36.1	1,223.0	1,186.8	36.21	33.779		
6,745.0	6,603.0	6,676.0	6,603.0	26.9	21.7	149.89	613.4	36.1	1,232.5	1,196.0	36.43	33.829		
6,772.7	6,629.9	6,702.8	6,629.9	27.0	21.7	150.04	613.4	36.1	1,238.3	1,201.7	36.57	33.859		
6,800.0	6,656.4	6,729.4	6,656.4	27.1	21.7	150.25	613.4	36.1	1,244.0	1,207.3	36.71	33.888		
6,840.0	6,695.4	6,768.3	6,695.4	27.3	21.7	150.53	613.4	36.1	1,251.9	1,215.0	36.92	33.911		
6,900.0	6,754.1	6,827.0	6,754.1	27.6	21.8	150.92	613.4	36.1	1,262.9	1,225.6	37.23	33.920		
6,935.0	6,788.4	6,861.4	6,788.4	27.8	21.8	151.12	613.4	36.1	1,268.8	1,231.4	37.41	33.918		
7,000.0	6,852.4	6,925.4	6,852.4	28.1	21.8	151.47	613.4	36.1	1,278.8	1,241.1	37.74	33.887		
7,030.0	6,882.0	6,955.0	6,882.0	28.2	21.8	151.61	613.4	36.1	1,283.0	1,245.2	37.88	33.867		
7,100.0	6,951.3	7,024.3	6,951.3	28.5	21.8	151.90	613.4	36.1	1,291.8	1,253.6	38.23	33.793		
7,125.0	6,976.1	7,049.1	6,976.1	28.6	21.9	151.99	613.4	36.1	1,294.6	1,256.2	38.34	33.763		
7,200.0	7,050.7	7,123.6	7,050.7	29.0	21.9	152.23	613.4	36.1	1,301.8	1,263.1	38.69	33.645		
7,220.0	7,070.6	7,143.5	7,070.6	29.0	21.9	152.28	613.4	36.1	1,303.4	1,264.6	38.78	33.612		
7,300.0	7,150.4	7,223.3	7,150.4	29.3	21.9	152.45	613.4	36.1	1,308.6	1,269.5	39.12	33.449		
7,315.0	7,165.3	7,238.3	7,165.3	29.4	22.0	152.47	613.4	36.1	1,309.4	1,270.2	39.18	33.420		
7,400.0	7,250.3	7,323.2	7,250.3	29.7	22.0	152.57	613.4	36.1	1,312.4	1,272.9	39.51	33.220		
7,410.0	7,260.3	7,333.2	7,260.3	29.7	22.0	152.58	613.4	36.1	1,312.7	1,273.1	39.53	33.207		
7,472.7	7,323.0	7,396.0	7,323.0	29.8	22.0	76.34	613.4	36.1	1,313.3	1,273.6	39.67	33.108		
7,500.0	7,350.3	7,423.2	7,350.3	29.8	22.0	76.34	613.4	36.1	1,313.3	1,273.6	39.68	33.095		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
7,505.0	7,355.3	7,428.2	7,355.3	29.8	22.0	76.34	613.4	36.1	1,313.3	1,273.6	39.68	33.093		
7,600.0	7,450.3	7,601.6	7,527.2	29.8	22.2	77.09	595.7	36.0	1,311.3	1,271.4	39.97	32.811		
7,695.0	7,545.3	7,781.2	7,691.5	29.8	22.4	80.13	525.2	35.4	1,302.8	1,262.6	40.22	32.396		
7,700.0	7,550.3	7,789.3	7,698.3	29.8	22.4	80.32	520.8	35.4	1,302.2	1,262.0	40.23	32.373		
7,790.0	7,640.3	7,910.8	7,792.5	29.9	22.6	83.68	444.3	34.8	1,291.5	1,251.1	40.40	31.972		
7,800.0	7,650.3	7,921.9	7,800.2	29.9	22.6	84.03	436.4	34.7	1,290.4	1,250.0	40.41	31.931		
7,885.0	7,735.3	8,000.2	7,850.3	29.9	22.6	86.72	376.3	34.2	1,281.5	1,241.0	40.50	31.642		
7,900.0	7,750.3	8,011.5	7,856.8	29.9	22.7	87.13	367.0	34.1	1,280.2	1,239.7	40.51	31.605		
7,980.0	7,830.3	8,062.7	7,884.1	29.9	22.7	89.08	323.7	33.8	1,275.1	1,234.6	40.49	31.494		
8,000.0	7,850.3	8,073.5	7,889.3	29.9	22.7	89.50	314.3	33.7	1,274.4	1,233.9	40.47	31.490		
8,050.1	7,900.3	8,097.4	7,900.3	29.9	22.7	90.46	293.1	33.6	1,273.6	1,233.2	40.40	31.528		
8,075.0	7,925.3	8,108.0	7,904.9	30.0	22.7	90.88	283.5	33.5	1,273.8	1,233.4	40.35	31.571		
8,100.0	7,950.3	8,117.8	7,909.0	30.0	22.7	91.29	274.6	33.4	1,274.4	1,234.1	40.29	31.632		
8,170.0	8,020.3	8,141.8	7,918.3	30.0	22.8	92.28	252.5	33.2	1,278.3	1,238.2	40.08	31.891		
8,200.0	8,050.3	8,150.0	7,921.3	30.0	22.8	92.62	244.9	33.2	1,281.0	1,241.0	39.97	32.047		
8,265.0	8,115.3	8,167.9	7,927.4	30.0	22.8	93.38	228.0	33.0	1,289.0	1,249.3	39.72	32.455		
8,300.0	8,150.3	8,176.1	7,930.0	30.0	22.8	93.73	220.3	33.0	1,294.5	1,255.0	39.56	32.724		
8,360.0	8,210.3	8,188.6	7,933.8	30.0	22.8	94.26	208.4	32.9	1,306.0	1,266.7	39.27	33.259		
8,400.0	8,250.3	8,200.0	7,937.1	30.1	22.8	94.75	197.4	32.8	1,315.0	1,275.9	39.08	33.650		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	0.1	0.1	3.0	3.0	89.00	2.1	120.0	120.0					
95.0	95.0	95.1	95.1	3.0	3.0	89.00	2.1	120.0	120.0	114.0	6.04	19.884		
100.0	100.0	100.1	100.1	3.0	3.0	89.00	2.1	120.0	120.0	114.0	6.04	19.868		
190.0	190.0	190.1	190.1	3.1	3.1	89.00	2.1	120.0	120.0	113.8	6.25	19.196		
200.0	200.0	200.1	200.1	3.1	3.1	89.00	2.1	120.0	120.0	113.7	6.29	19.092		
285.0	285.0	285.1	285.1	3.3	3.3	89.00	2.1	120.0	120.0	113.5	6.48	18.513		
300.0	300.0	300.1	300.1	3.3	3.3	89.00	2.1	120.0	120.0	113.5	6.52	18.401		
380.0	380.0	380.1	380.1	3.4	3.4	89.00	2.1	120.0	120.0	113.3	6.70	17.908		
400.0	400.0	400.1	400.1	3.4	3.4	89.00	2.1	120.0	120.0	113.3	6.75	17.779		
475.0	475.0	475.1	475.1	3.5	3.5	89.00	2.1	120.0	120.0	113.1	6.91	17.360		
500.0	500.0	500.1	500.1	3.5	3.5	89.00	2.1	120.0	120.0	113.0	6.97	17.217		
570.0	570.0	570.1	570.1	3.6	3.6	89.00	2.1	120.0	120.0	112.9	7.12	16.859		
600.0	600.0	600.1	600.1	3.6	3.6	89.00	2.1	120.0	120.0	112.8	7.18	16.705		
665.0	665.0	665.1	665.1	3.7	3.7	89.00	2.1	120.0	120.0	112.7	7.32	16.400		
700.0	700.0	700.1	700.1	3.8	3.8	89.00	2.1	120.0	120.0	112.6	7.39	16.236		
760.0	760.0	760.1	760.1	3.8	3.8	89.00	2.1	120.0	120.0	112.5	7.51	15.977		
800.0	800.0	800.1	800.1	3.9	3.9	89.00	2.1	120.0	120.0	112.4	7.59	15.804		
855.0	855.0	855.1	855.1	4.0	4.0	89.00	2.1	120.0	120.0	112.3	7.70	15.584		
900.0	900.0	900.1	900.1	4.0	4.0	89.00	2.1	120.0	120.0	112.2	7.79	15.406		
950.0	950.0	950.1	950.1	4.1	4.1	89.00	2.1	120.0	120.0	112.1	7.89	15.220		
1,000.0	1,000.0	1,000.1	1,000.1	4.1	4.1	89.00	2.1	120.0	120.0	112.0	7.98	15.035		
1,045.0	1,045.0	1,045.1	1,045.1	4.2	4.2	89.00	2.1	120.0	120.0	112.0	8.07	14.880		
1,100.0	1,100.0	1,100.1	1,100.1	4.2	4.2	89.00	2.1	120.0	120.0	111.8	8.17	14.691		
1,140.0	1,140.0	1,140.1	1,140.1	4.3	4.3	89.00	2.1	120.0	120.0	111.8	8.24	14.561		
1,200.0	1,200.0	1,200.1	1,200.1	4.4	4.4	89.00	2.1	120.0	120.0	111.7	8.35	14.369		
1,235.0	1,235.0	1,235.1	1,235.1	4.4	4.4	89.00	2.1	120.0	120.0	111.6	8.42	14.262		
1,300.0	1,300.0	1,300.1	1,300.1	4.5	4.5	89.00	2.1	120.0	120.0	111.5	8.53	14.067		
1,330.0	1,330.0	1,330.1	1,330.1	4.5	4.5	89.00	2.1	120.0	120.0	111.4	8.58	13.981		
1,400.0	1,400.0	1,400.1	1,400.1	4.6	4.6	89.00	2.1	120.0	120.0	111.3	8.71	13.783		
1,425.0	1,425.0	1,425.1	1,425.1	4.6	4.6	89.00	2.1	120.0	120.0	111.3	8.75	13.716		
1,437.5	1,437.5	1,437.6	1,437.6	4.6	4.6	89.00	2.1	120.0	120.0	111.2	8.77	13.683 CC		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.00	2.1	120.0	120.0	111.1	8.88	13.517 ES		
1,520.0	1,520.0	1,519.4	1,519.4	4.7	4.7	165.25	2.1	120.1	120.1	111.2	8.95	13.428		
1,600.0	1,600.0	1,596.6	1,596.6	4.8	4.9	165.04	3.0	121.4	123.1	113.9	9.22	13.354 SF		
1,615.0	1,615.0	1,611.0	1,611.0	4.9	4.9	164.97	3.3	121.8	124.1	114.8	9.29	13.358		
1,700.0	1,699.8	1,692.5	1,692.4	5.0	5.1	164.43	5.7	125.4	132.5	122.7	9.72	13.625		
1,710.0	1,709.8	1,702.0	1,701.9	5.0	5.1	164.35	6.0	125.9	133.7	124.0	9.77	13.683		
1,800.0	1,799.5	1,787.3	1,786.8	5.3	5.3	163.59	10.0	132.0	148.0	137.7	10.24	14.450		
1,805.0	1,804.4	1,792.0	1,791.5	5.3	5.3	163.54	10.3	132.4	148.9	138.6	10.27	14.504		
1,900.0	1,898.7	1,880.5	1,879.3	5.5	5.6	162.65	16.0	141.1	169.5	158.8	10.77	15.740		
1,995.0	1,992.5	1,967.0	1,964.9	5.9	5.8	161.76	23.0	151.7	195.6	184.3	11.29	17.320		
2,000.0	1,997.5	1,971.5	1,969.4	5.9	5.9	161.72	23.4	152.3	197.1	185.8	11.32	17.413		
2,090.0	2,085.8	2,051.2	2,047.8	6.2	6.1	160.93	31.2	164.2	226.8	215.0	11.82	19.190		
2,100.0	2,095.6	2,060.0	2,056.4	6.2	6.1	160.84	32.1	165.6	230.4	218.5	11.88	19.402		
2,185.0	2,178.5	2,132.9	2,127.7	6.5	6.4	160.16	40.4	178.2	263.2	250.8	12.36	21.298		
2,200.1	2,193.1	2,145.5	2,140.1	6.6	6.4	160.05	41.9	180.5	269.4	256.9	12.44	21.652		
2,280.0	2,270.7	2,213.1	2,205.8	6.8	6.7	159.65	50.6	193.7	303.4	290.5	12.85	23.604		
2,300.0	2,290.1	2,231.1	2,223.3	6.9	6.7	159.54	53.0	197.4	312.0	299.0	12.96	24.073		
2,375.0	2,362.9	2,298.8	2,288.9	7.1	7.0	159.19	62.0	211.0	344.4	331.0	13.38	25.744		
2,400.0	2,387.1	2,321.3	2,310.8	7.2	7.0	159.09	65.0	215.6	355.2	341.7	13.52	26.272		
2,470.0	2,455.0	2,384.4	2,372.0	7.5	7.2	158.83	73.4	228.4	385.4	371.5	13.93	27.669		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
2,500.0	2,484.1	2,411.5	2,398.2	7.6	7.3	158.73	77.0	233.8	398.4	384.3	14.11	28.239
2,565.0	2,547.2	2,470.1	2,455.1	7.8	7.5	158.54	84.8	245.7	426.5	412.0	14.51	29.401
2,600.0	2,581.2	2,501.6	2,485.7	7.9	7.6	158.45	89.0	252.0	441.6	426.9	14.72	29.998
2,660.0	2,639.4	2,555.7	2,538.2	8.2	7.8	158.30	96.2	263.0	467.5	452.4	15.10	30.957
2,700.0	2,678.2	2,591.8	2,573.2	8.3	8.0	158.22	100.9	270.3	484.8	469.5	15.36	31.568
2,755.0	2,731.6	2,641.4	2,621.3	8.5	8.1	158.10	107.5	280.3	508.6	492.9	15.72	32.357
2,800.0	2,775.2	2,682.0	2,660.7	8.7	8.3	158.02	112.9	288.5	528.0	512.0	16.01	32.972
2,850.0	2,823.7	2,727.0	2,704.4	8.9	8.5	157.93	118.9	297.6	549.7	533.3	16.35	33.617
2,900.0	2,872.3	2,772.1	2,748.2	9.1	8.6	157.85	124.9	306.7	571.3	554.6	16.69	34.231
2,945.0	2,915.9	2,812.7	2,787.6	9.3	8.8	157.79	130.3	314.9	590.7	573.7	17.00	34.753
3,000.0	2,969.3	2,862.3	2,835.7	9.5	9.0	157.71	136.9	324.9	614.5	597.1	17.38	35.360
3,040.0	3,008.1	2,898.4	2,870.7	9.7	9.1	157.66	141.7	332.2	631.8	614.1	17.66	35.779
3,100.0	3,066.3	2,952.4	2,923.2	9.9	9.4	157.59	148.9	343.1	657.7	639.6	18.08	36.375
3,135.0	3,100.3	2,984.0	2,953.8	10.1	9.5	157.55	153.1	349.5	672.9	654.5	18.33	36.706
3,200.0	3,163.3	3,042.6	3,010.7	10.3	9.7	157.48	160.9	361.3	701.0	682.2	18.80	37.291
3,230.0	3,192.5	3,069.7	3,036.9	10.5	9.8	157.45	164.5	366.8	713.9	694.9	19.01	37.547
3,300.0	3,260.4	3,132.8	3,098.1	10.8	10.1	157.38	172.9	379.6	744.2	724.7	19.52	38.117
3,325.0	3,284.6	3,155.3	3,120.0	10.9	10.2	157.36	175.8	384.1	755.0	735.3	19.71	38.311
3,400.0	3,357.4	3,222.9	3,185.6	11.2	10.5	157.30	184.8	397.8	787.4	767.2	20.26	38.866
3,420.0	3,376.8	3,241.0	3,203.1	11.3	10.6	157.28	187.2	401.4	796.1	775.7	20.41	39.007
3,500.0	3,454.4	3,313.1	3,273.1	11.6	10.9	157.22	196.8	416.0	830.7	809.7	21.01	39.546
3,515.0	3,469.0	3,326.6	3,286.2	11.7	10.9	157.21	198.6	418.7	837.2	816.0	21.12	39.642
3,600.0	3,551.5	3,403.3	3,360.6	12.1	11.2	157.15	208.8	434.2	873.9	852.2	21.76	40.165
3,610.0	3,561.2	3,412.3	3,369.3	12.1	11.3	157.15	210.0	436.0	878.2	856.4	21.83	40.223
3,700.0	3,648.5	3,493.4	3,448.1	12.5	11.6	157.09	220.8	452.4	917.1	894.6	22.52	40.729
3,705.0	3,653.3	3,497.9	3,452.5	12.5	11.7	157.09	221.4	453.3	919.3	896.8	22.56	40.756
3,800.0	3,745.5	3,583.6	3,535.6	13.0	12.0	157.03	232.8	470.7	960.4	937.1	23.28	41.245
3,895.0	3,837.7	3,669.2	3,618.7	13.4	12.4	156.98	244.2	488.0	1,001.5	977.5	24.02	41.695
3,900.0	3,842.5	3,673.8	3,623.1	13.4	12.4	156.98	244.8	488.9	1,003.6	979.6	24.06	41.718
3,990.0	3,929.9	3,754.9	3,701.8	13.8	12.8	156.94	255.5	505.3	1,042.6	1,017.8	24.76	42.111
4,000.0	3,939.6	3,763.9	3,710.5	13.9	12.8	156.93	256.7	507.1	1,046.9	1,022.0	24.84	42.153
4,085.0	4,022.1	3,840.6	3,784.9	14.3	13.2	156.90	266.9	522.6	1,083.6	1,058.1	25.50	42.495
4,100.0	4,036.6	3,854.1	3,798.0	14.3	13.2	156.89	268.7	525.3	1,090.1	1,064.5	25.62	42.553
4,180.0	4,114.2	3,926.2	3,868.0	14.7	13.6	156.86	278.3	539.9	1,124.7	1,098.5	26.25	42.851
4,200.0	4,133.6	3,944.2	3,885.5	14.8	13.6	156.85	280.7	543.5	1,133.4	1,107.0	26.40	42.923
4,275.0	4,206.4	4,011.9	3,951.1	15.1	13.9	156.82	289.7	557.2	1,165.8	1,138.8	26.99	43.190
4,300.0	4,230.7	4,043.5	3,981.8	15.3	14.1	156.81	293.8	563.5	1,176.5	1,149.3	27.27	43.151
4,370.0	4,298.6	4,145.9	4,081.8	15.6	14.6	156.83	306.0	582.0	1,205.3	1,177.2	28.15	42.814
4,400.0	4,327.7	4,190.6	4,125.7	15.7	14.8	156.86	310.7	589.1	1,217.0	1,188.5	28.54	42.649
4,465.0	4,390.8	4,289.4	4,223.1	16.0	15.2	156.98	319.7	602.9	1,240.9	1,211.6	29.35	42.286
4,500.0	4,424.7	4,343.5	4,276.7	16.2	15.5	157.08	323.9	609.2	1,253.1	1,223.3	29.77	42.091
4,560.0	4,482.9	4,437.8	4,370.4	16.5	15.9	157.28	329.8	618.2	1,272.5	1,242.0	30.48	41.754
4,600.0	4,521.8	4,501.7	4,434.0	16.6	16.1	157.45	332.9	622.8	1,284.5	1,253.6	30.93	41.529
4,655.0	4,575.1	4,590.6	4,522.7	16.9	16.5	157.72	335.8	627.3	1,299.8	1,268.3	31.51	41.244
4,700.0	4,618.8	4,664.2	4,596.4	17.1	16.7	157.98	337.1	629.3	1,311.2	1,279.2	31.94	41.049

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error: 0.0 usft				
Survey Program: Reference				0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS				Rule Assigned:				Offset Well Error: 3.0 usft					
Measured		Vertical		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum		Separation		Warning	
Depth	Depth	Measured	Vertical	Reference	Offset	Highside				Between	Ellipses	Separation	Factor				
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S	+E/-W		Centres	(usft)	(usft)	(usft)				
0.0	0.0	0.0	0.0	3.0	3.0	88.98	1.6	90.0		90.0							
95.0	95.0	95.0	95.0	3.0	3.0	88.98	1.6	90.0		90.0	84.0	6.04	14.913				
100.0	100.0	100.0	100.0	3.0	3.0	88.98	1.6	90.0		90.0	84.0	6.04	14.901				
190.0	190.0	190.0	190.0	3.1	3.1	88.98	1.6	90.0		90.0	83.8	6.25	14.397				
200.0	200.0	200.0	200.0	3.1	3.1	88.98	1.6	90.0		90.0	83.7	6.29	14.319				
285.0	285.0	285.0	285.0	3.3	3.3	88.98	1.6	90.0		90.0	83.5	6.48	13.885				
300.0	300.0	300.0	300.0	3.3	3.3	88.98	1.6	90.0		90.0	83.5	6.52	13.801				
380.0	380.0	380.0	380.0	3.4	3.4	88.98	1.6	90.0		90.0	83.3	6.70	13.431				
400.0	400.0	400.0	400.0	3.4	3.4	88.98	1.6	90.0		90.0	83.3	6.75	13.335				
475.0	475.0	475.0	475.0	3.5	3.5	88.98	1.6	90.0		90.0	83.1	6.91	13.020				
500.0	500.0	500.0	500.0	3.5	3.5	88.98	1.6	90.0		90.0	83.0	6.97	12.913				
570.0	570.0	570.0	570.0	3.6	3.6	88.98	1.6	90.0		90.0	82.9	7.12	12.645				
600.0	600.0	600.0	600.0	3.6	3.6	88.98	1.6	90.0		90.0	82.8	7.18	12.529				
665.0	665.0	665.0	665.0	3.7	3.7	88.98	1.6	90.0		90.0	82.7	7.32	12.300				
700.0	700.0	700.0	700.0	3.8	3.8	88.98	1.6	90.0		90.0	82.6	7.39	12.177				
760.0	760.0	760.0	760.0	3.8	3.8	88.98	1.6	90.0		90.0	82.5	7.51	11.983				
800.0	800.0	800.0	800.0	3.9	3.9	88.98	1.6	90.0		90.0	82.4	7.59	11.854				
855.0	855.0	855.0	855.0	4.0	4.0	88.98	1.6	90.0		90.0	82.3	7.70	11.689				
900.0	900.0	900.0	900.0	4.0	4.0	88.98	1.6	90.0		90.0	82.2	7.79	11.554				
950.0	950.0	950.0	950.0	4.1	4.1	88.98	1.6	90.0		90.0	82.1	7.89	11.415				
1,000.0	1,000.0	1,000.0	1,000.0	4.1	4.1	88.98	1.6	90.0		90.0	82.0	7.98	11.277				
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	88.98	1.6	90.0		90.0	81.9	8.07	11.160				
1,100.0	1,100.0	1,100.0	1,100.0	4.2	4.2	88.98	1.6	90.0		90.0	81.8	8.17	11.018				
1,140.0	1,140.0	1,140.0	1,140.0	4.3	4.3	88.98	1.6	90.0		90.0	81.8	8.24	10.921				
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	88.98	1.6	90.0		90.0	81.7	8.35	10.777				
1,235.0	1,235.0	1,235.0	1,235.0	4.4	4.4	88.98	1.6	90.0		90.0	81.6	8.41	10.697				
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	88.98	1.6	90.0		90.0	81.5	8.53	10.550				
1,330.0	1,330.0	1,330.0	1,330.0	4.5	4.5	88.98	1.6	90.0		90.0	81.4	8.58	10.486				
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	88.98	1.6	90.0		90.0	81.3	8.71	10.338				
1,425.0	1,425.0	1,425.0	1,425.0	4.6	4.6	88.98	1.6	90.0		90.0	81.3	8.75	10.287				
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	88.98	1.6	90.0		90.0	81.1	8.88	10.137 CC, ES				
1,520.0	1,520.0	1,519.8	1,519.8	4.7	4.8	165.21	1.7	90.0		90.1	81.2	8.94	10.084				
1,600.0	1,600.0	1,598.8	1,598.8	4.8	4.9	164.52	3.2	90.6		92.4	83.2	9.16	10.079 SF				
1,615.0	1,615.0	1,613.6	1,613.5	4.9	4.9	164.30	3.7	90.8		93.1	83.9	9.23	10.089				
1,700.0	1,699.8	1,697.2	1,697.0	5.0	5.2	162.56	7.9	92.4		99.4	89.8	9.61	10.345				
1,710.0	1,709.8	1,707.0	1,706.8	5.0	5.2	162.32	8.6	92.7		100.4	90.8	9.66	10.397				
1,800.0	1,799.5	1,794.7	1,794.2	5.3	5.4	159.86	15.8	95.4		111.4	101.3	10.07	11.059				
1,805.0	1,804.4	1,800.0	1,799.5	5.3	5.4	159.70	16.3	95.6		112.1	102.0	10.10	11.103				
1,900.0	1,898.7	1,892.1	1,890.9	5.5	5.6	157.01	26.3	99.4		128.3	117.8	10.46	12.265				
1,995.0	1,992.5	1,985.0	1,983.1	5.9	5.8	155.20	36.9	103.5		147.7	136.8	10.91	13.536				
2,000.0	1,997.5	1,989.9	1,988.0	5.9	5.8	155.12	37.5	103.7		148.8	137.8	10.93	13.606				
2,090.0	2,085.8	2,077.3	2,074.8	6.2	6.0	154.21	47.4	107.5		169.9	158.5	11.38	14.929				
2,100.0	2,095.6	2,087.0	2,084.4	6.2	6.0	154.14	48.5	107.9		172.4	161.0	11.43	15.083				
2,185.0	2,178.5	2,169.0	2,165.7	6.5	6.3	153.79	57.9	111.5		194.9	183.0	11.87	16.424				
2,200.1	2,193.1	2,183.4	2,180.1	6.6	6.3	153.77	59.5	112.1		199.1	187.2	11.95	16.669				
2,280.0	2,270.7	2,260.1	2,256.2	6.8	6.5	153.86	68.2	115.4		221.7	209.3	12.32	17.988				
2,300.0	2,290.1	2,279.3	2,275.3	6.9	6.6	153.87	70.4	116.3		227.3	214.9	12.42	18.305				
2,375.0	2,362.9	2,351.3	2,346.7	7.1	6.8	153.94	78.6	119.4		248.5	235.7	12.79	19.433				
2,400.0	2,387.1	2,375.3	2,370.5	7.2	6.9	153.96	81.4	120.4		255.5	242.6	12.91	19.794				
2,470.0	2,455.0	2,442.4	2,437.1	7.5	7.1	154.00	89.0	123.3		275.3	262.0	13.26	20.751				
2,500.0	2,484.1	2,471.2	2,465.7	7.6	7.2	154.02	92.3	124.6		283.7	270.3	13.42	21.144				

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,565.0	2,547.2	2,533.6	2,527.6	7.8	7.4	154.06	99.4	127.3	302.0	288.3	13.76	21.952	
2,600.0	2,581.2	2,567.1	2,560.9	7.9	7.5	154.08	103.2	128.8	311.9	298.0	13.94	22.370	
2,660.0	2,639.4	2,624.7	2,618.1	8.2	7.7	154.10	109.8	131.3	328.8	314.6	14.27	23.049	
2,700.0	2,678.2	2,663.1	2,656.2	8.3	7.8	154.12	114.1	132.9	340.1	325.6	14.48	23.483	
2,755.0	2,731.6	2,715.8	2,708.5	8.5	8.0	154.14	120.1	135.2	355.6	340.8	14.79	24.050	
2,800.0	2,775.2	2,759.0	2,751.4	8.7	8.1	154.16	125.0	137.1	368.3	353.3	15.04	24.495	
2,850.0	2,823.7	2,807.0	2,799.0	8.9	8.3	154.18	130.5	139.2	382.4	367.1	15.32	24.965	
2,900.0	2,872.3	2,855.0	2,846.6	9.1	8.4	154.19	136.0	141.3	396.5	380.9	15.60	25.417	
2,945.0	2,915.9	2,898.1	2,889.5	9.3	8.6	154.20	140.9	143.1	409.2	393.4	15.86	25.804	
3,000.0	2,969.3	2,950.9	2,941.8	9.5	8.8	154.22	146.9	145.4	424.7	408.6	16.18	26.258	
3,040.0	3,008.1	2,989.3	2,979.9	9.7	8.9	154.23	151.3	147.1	436.0	419.6	16.41	26.573	
3,100.0	3,066.3	3,046.8	3,037.0	9.9	9.1	154.24	157.8	149.6	452.9	436.2	16.76	27.027	
3,135.0	3,100.3	3,080.4	3,070.4	10.1	9.2	154.25	161.6	151.0	462.8	445.9	16.97	27.280	
3,200.0	3,163.3	3,142.8	3,132.3	10.3	9.5	154.27	168.7	153.8	481.1	463.8	17.35	27.732	
3,230.0	3,192.5	3,171.6	3,160.8	10.5	9.6	154.27	172.0	155.0	489.6	472.1	17.53	27.931	
3,300.0	3,260.4	3,238.7	3,227.5	10.8	9.8	154.29	179.7	157.9	509.4	491.4	17.95	28.379	
3,325.0	3,284.6	3,262.7	3,251.3	10.9	9.9	154.29	182.4	159.0	516.4	498.3	18.10	28.532	
3,400.0	3,357.4	3,334.7	3,322.7	11.2	10.2	154.30	190.6	162.1	537.6	519.0	18.55	28.974	
3,420.0	3,376.8	3,353.8	3,341.8	11.3	10.2	154.31	192.8	162.9	543.2	524.5	18.67	29.087	
3,500.0	3,454.4	3,430.6	3,417.9	11.6	10.5	154.32	201.5	166.2	565.8	546.6	19.16	29.523	
3,515.0	3,469.0	3,445.0	3,432.2	11.7	10.6	154.32	203.1	166.9	570.0	550.7	19.26	29.601	
3,600.0	3,551.5	3,526.5	3,513.2	12.1	10.9	154.33	212.4	170.4	594.0	574.2	19.78	30.030	
3,610.0	3,561.2	3,536.1	3,522.7	12.1	10.9	154.33	213.5	170.8	596.8	577.0	19.84	30.078	
3,700.0	3,648.5	3,622.5	3,608.4	12.5	11.3	154.35	223.4	174.6	622.2	601.8	20.40	30.499	
3,705.0	3,653.3	3,627.3	3,613.2	12.5	11.3	154.35	223.9	174.8	623.6	603.2	20.43	30.522	
3,800.0	3,745.5	3,718.4	3,703.6	13.0	11.6	154.36	234.3	178.7	650.4	629.4	21.02	30.935	
3,895.0	3,837.7	3,809.6	3,794.1	13.4	12.0	154.37	244.7	182.7	677.2	655.6	21.62	31.320	
3,900.0	3,842.5	3,814.4	3,798.8	13.4	12.0	154.37	245.2	182.9	678.6	656.9	21.65	31.339	
3,990.0	3,929.9	3,900.7	3,884.5	13.8	12.3	154.38	255.0	186.7	704.0	681.8	22.22	31.679	
4,000.0	3,939.6	3,910.3	3,894.1	13.9	12.4	154.38	256.1	187.1	706.8	684.5	22.29	31.716	
4,085.0	4,022.1	3,991.8	3,975.0	14.3	12.7	154.39	265.4	190.6	730.8	707.9	22.83	32.016	
4,100.0	4,036.6	4,006.2	3,989.3	14.3	12.7	154.39	267.1	191.2	735.0	712.1	22.92	32.067	
4,180.0	4,114.2	4,083.0	4,065.5	14.7	13.0	154.39	275.8	194.6	757.6	734.1	23.43	32.332	
4,200.0	4,133.6	4,102.2	4,084.5	14.8	13.1	154.40	278.0	195.4	763.2	739.6	23.56	32.396	
4,275.0	4,206.4	4,174.1	4,155.9	15.1	13.4	154.40	286.2	198.5	784.4	760.3	24.04	32.630	
4,300.0	4,230.7	4,198.1	4,179.7	15.3	13.5	154.40	288.9	199.6	791.4	767.2	24.20	32.706	
4,370.0	4,298.6	4,270.7	4,251.8	15.6	13.8	154.44	296.7	202.6	810.9	786.3	24.68	32.862	
4,400.0	4,327.7	4,301.9	4,282.8	15.7	13.9	154.47	299.8	203.8	819.2	794.3	24.88	32.921	
4,465.0	4,390.8	4,369.6	4,350.2	16.0	14.1	154.57	306.0	206.1	836.7	811.4	25.32	33.040	
4,500.0	4,424.7	4,406.2	4,386.6	16.2	14.3	154.64	309.1	207.3	846.0	820.4	25.56	33.097	
4,560.0	4,482.9	4,468.9	4,449.2	16.5	14.5	154.80	313.8	209.1	861.7	835.7	25.96	33.189	
4,600.0	4,521.8	4,510.9	4,491.1	16.6	14.7	154.92	316.6	210.1	871.9	845.7	26.23	33.243	
4,655.0	4,575.1	4,568.6	4,548.7	16.9	14.9	155.11	320.0	211.4	885.8	859.2	26.59	33.313	
4,700.0	4,618.8	4,616.0	4,596.0	17.1	15.0	155.28	322.3	212.3	896.9	870.0	26.88	33.364	
4,750.0	4,667.3	4,668.7	4,648.6	17.3	15.2	155.50	324.5	213.2	909.1	881.9	27.20	33.417	
4,800.0	4,715.8	4,721.4	4,701.3	17.6	15.4	155.74	326.3	213.8	921.1	893.5	27.52	33.466	
4,845.0	4,759.5	4,768.9	4,748.8	17.8	15.5	155.97	327.4	214.3	931.7	903.8	27.80	33.509	
4,900.0	4,812.8	4,827.1	4,806.9	18.0	15.6	156.27	328.4	214.6	944.4	916.2	28.13	33.569	
4,940.0	4,851.7	4,869.4	4,849.3	18.2	15.7	156.50	328.7	214.8	953.4	925.1	28.36	33.620	
5,000.0	4,909.9	4,930.0	4,909.9	18.5	15.8	156.86	328.8	214.8	966.9	938.2	28.68	33.715	
5,035.0	4,943.8	4,963.9	4,943.8	18.7	15.8	157.05	328.8	214.8	974.7	945.8	28.85	33.781	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,100.0	5,006.9	5,027.0	5,006.9	19.0	15.8	157.40	328.8	214.8	989.2	960.1	29.18	33.900		
5,130.0	5,036.0	5,056.1	5,036.0	19.1	15.8	157.56	328.8	214.8	996.0	966.6	29.33	33.954		
5,200.0	5,103.9	5,124.0	5,103.9	19.5	15.9	157.93	328.8	214.8	1,011.7	982.0	29.69	34.076		
5,225.0	5,128.2	5,148.3	5,128.2	19.6	15.9	158.06	328.8	214.8	1,017.4	987.5	29.82	34.119		
5,300.0	5,201.0	5,221.1	5,201.0	19.9	15.9	158.43	328.8	214.8	1,034.3	1,004.1	30.20	34.244		
5,320.0	5,220.4	5,240.5	5,220.4	20.0	15.9	158.53	328.8	214.8	1,038.8	1,008.5	30.31	34.277		
5,400.0	5,298.0	5,318.1	5,298.0	20.4	16.0	158.91	328.8	214.8	1,056.9	1,026.2	30.72	34.404		
5,415.0	5,312.5	5,332.6	5,312.5	20.5	16.0	158.98	328.8	214.8	1,060.3	1,029.5	30.80	34.427		
5,500.0	5,395.0	5,415.1	5,395.0	20.9	16.0	159.37	328.8	214.8	1,079.6	1,048.4	31.24	34.557		
5,510.0	5,404.7	5,424.8	5,404.7	20.9	16.1	159.42	328.8	214.8	1,081.9	1,050.6	31.29	34.572		
5,600.0	5,492.0	5,512.2	5,492.0	21.4	16.1	159.81	328.8	214.8	1,102.4	1,070.6	31.77	34.703		
5,605.0	5,496.9	5,517.0	5,496.9	21.4	16.1	159.83	328.8	214.8	1,103.5	1,071.7	31.79	34.710		
5,700.0	5,589.1	5,609.2	5,589.1	21.8	16.2	160.24	328.8	214.8	1,125.2	1,092.9	32.29	34.843		
5,795.0	5,681.3	5,701.4	5,681.3	22.3	16.2	160.62	328.8	214.8	1,146.9	1,114.1	32.80	34.970		
5,800.0	5,686.1	5,706.2	5,686.1	22.3	16.2	160.64	328.8	214.8	1,148.0	1,115.2	32.82	34.976		
5,890.0	5,773.4	5,793.5	5,773.4	22.7	16.3	161.00	328.8	214.8	1,168.7	1,135.4	33.30	35.092		
5,900.0	5,783.1	5,803.2	5,783.1	22.8	16.3	161.03	328.8	214.8	1,171.0	1,137.6	33.36	35.104		
5,985.0	5,865.6	5,885.7	5,865.6	23.2	16.3	161.35	328.8	214.8	1,190.5	1,156.7	33.81	35.209		
6,000.0	5,880.2	5,900.3	5,880.2	23.3	16.3	161.41	328.8	214.8	1,193.9	1,160.1	33.89	35.227		
6,080.0	5,957.8	5,977.9	5,957.8	23.7	16.4	161.70	328.8	214.8	1,212.4	1,178.0	34.32	35.322		
6,100.0	5,977.2	5,997.3	5,977.2	23.8	16.4	161.77	328.8	214.8	1,217.0	1,182.5	34.43	35.345		
6,175.0	6,050.0	6,070.1	6,050.0	24.1	16.4	162.04	328.8	214.8	1,234.3	1,199.4	34.84	35.431		
6,200.0	6,074.2	6,094.3	6,074.2	24.2	16.5	162.12	328.8	214.8	1,240.0	1,205.1	34.97	35.459		
6,270.0	6,142.1	6,162.2	6,142.1	24.6	16.5	162.36	328.8	214.8	1,256.2	1,220.9	35.35	35.535		
6,300.0	6,171.2	6,191.4	6,171.2	24.7	16.5	162.46	328.8	214.8	1,263.1	1,227.6	35.51	35.568		
6,365.0	6,234.3	6,254.4	6,234.3	25.0	16.6	162.67	328.8	214.8	1,278.2	1,242.3	35.87	35.636		
6,400.0	6,268.3	6,288.4	6,268.3	25.2	16.6	162.78	328.8	214.8	1,286.3	1,250.2	36.06	35.673		
6,460.0	6,326.5	6,346.6	6,326.5	25.5	16.6	162.97	328.8	214.8	1,300.2	1,263.8	36.39	35.734		
6,500.0	6,365.3	6,385.4	6,365.3	25.7	16.6	163.09	328.8	214.8	1,309.5	1,272.9	36.60	35.774		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference				0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS				Rule Assigned:				Offset Well Error: 3.0 usft		
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	
0.0	0.0	0.1	0.1	3.0	3.0	89.05	1.0	60.0	60.0					
95.0	95.0	95.1	95.1	3.0	3.0	89.05	1.0	60.0	60.0	54.0	6.04	9.942		
100.0	100.0	100.1	100.1	3.0	3.0	89.05	1.0	60.0	60.0	54.0	6.04	9.934		
190.0	190.0	190.1	190.1	3.1	3.1	89.05	1.0	60.0	60.0	53.8	6.25	9.598		
200.0	200.0	200.1	200.1	3.1	3.1	89.05	1.0	60.0	60.0	53.7	6.29	9.546		
285.0	285.0	285.1	285.1	3.3	3.3	89.05	1.0	60.0	60.0	53.5	6.48	9.256		
300.0	300.0	300.1	300.1	3.3	3.3	89.05	1.0	60.0	60.0	53.5	6.52	9.200		
380.0	380.0	380.1	380.1	3.4	3.4	89.05	1.0	60.0	60.0	53.3	6.70	8.954		
400.0	400.0	400.1	400.1	3.4	3.4	89.05	1.0	60.0	60.0	53.3	6.75	8.890		
475.0	475.0	475.1	475.1	3.5	3.5	89.05	1.0	60.0	60.0	53.1	6.91	8.680		
500.0	500.0	500.1	500.1	3.5	3.5	89.05	1.0	60.0	60.0	53.0	6.97	8.608		
570.0	570.0	570.1	570.1	3.6	3.6	89.05	1.0	60.0	60.0	52.9	7.12	8.430		
600.0	600.0	600.1	600.1	3.6	3.6	89.05	1.0	60.0	60.0	52.8	7.18	8.352		
665.0	665.0	665.1	665.1	3.7	3.7	89.05	1.0	60.0	60.0	52.7	7.32	8.200		
700.0	700.0	700.1	700.1	3.8	3.8	89.05	1.0	60.0	60.0	52.6	7.39	8.118		
760.0	760.0	760.1	760.1	3.8	3.8	89.05	1.0	60.0	60.0	52.5	7.51	7.988		
800.0	800.0	800.1	800.1	3.9	3.9	89.05	1.0	60.0	60.0	52.4	7.59	7.902		
855.0	855.0	855.1	855.1	4.0	4.0	89.05	1.0	60.0	60.0	52.3	7.70	7.792		
900.0	900.0	900.1	900.1	4.0	4.0	89.05	1.0	60.0	60.0	52.2	7.79	7.703		
950.0	950.0	950.1	950.1	4.1	4.1	89.05	1.0	60.0	60.0	52.1	7.89	7.610		
1,000.0	1,000.0	1,000.1	1,000.1	4.1	4.1	89.05	1.0	60.0	60.0	52.0	7.98	7.518		
1,045.0	1,045.0	1,045.1	1,045.1	4.2	4.2	89.05	1.0	60.0	60.0	51.9	8.07	7.440		
1,100.0	1,100.0	1,100.1	1,100.1	4.2	4.2	89.05	1.0	60.0	60.0	51.8	8.17	7.345		
1,140.0	1,140.0	1,140.1	1,140.1	4.3	4.3	89.05	1.0	60.0	60.0	51.8	8.24	7.280		
1,200.0	1,200.0	1,200.1	1,200.1	4.4	4.4	89.05	1.0	60.0	60.0	51.7	8.35	7.184		
1,235.0	1,235.0	1,235.1	1,235.1	4.4	4.4	89.05	1.0	60.0	60.0	51.6	8.42	7.131		
1,300.0	1,300.0	1,300.1	1,300.1	4.5	4.5	89.05	1.0	60.0	60.0	51.5	8.53	7.033		
1,330.0	1,330.0	1,330.1	1,330.1	4.5	4.5	89.05	1.0	60.0	60.0	51.4	8.58	6.991		
1,400.0	1,400.0	1,400.1	1,400.1	4.6	4.6	89.05	1.0	60.0	60.0	51.3	8.71	6.892		
1,425.0	1,425.0	1,425.1	1,425.1	4.6	4.6	89.05	1.0	60.0	60.0	51.3	8.75	6.858		
1,500.0	1,500.0	1,500.1	1,500.1	4.7	4.7	89.05	1.0	60.0	60.0	51.1	8.88	6.758		
1,500.3	1,500.3	1,500.4	1,500.4	4.7	4.7	165.31	1.0	60.0	60.0	51.1	8.88	6.757 CC		
1,520.0	1,520.0	1,520.4	1,520.4	4.7	4.8	165.27	1.1	59.9	60.0	51.1	8.94	6.711 ES		
1,600.0	1,600.0	1,601.6	1,601.6	4.8	4.9	164.52	2.3	58.7	60.4	51.2	9.20	6.568		
1,615.0	1,615.0	1,616.8	1,616.8	4.9	4.9	164.27	2.7	58.3	60.6	51.3	9.28	6.532		
1,700.0	1,699.8	1,703.0	1,702.9	5.0	5.1	162.25	6.0	54.8	61.8	52.1	9.68	6.387		
1,710.0	1,709.8	1,713.2	1,713.0	5.0	5.1	161.94	6.5	54.3	62.0	52.3	9.73	6.376		
1,800.0	1,799.5	1,804.4	1,803.8	5.3	5.4	158.69	12.2	48.4	64.3	54.2	10.15	6.339		
1,805.0	1,804.4	1,809.4	1,808.8	5.3	5.4	158.48	12.6	48.0	64.5	54.3	10.17	6.340		
1,900.0	1,898.7	1,905.5	1,904.2	5.5	5.7	154.18	20.9	39.4	68.2	57.6	10.60	6.437		
1,995.0	1,992.5	2,000.8	1,998.4	5.9	5.8	149.72	31.0	28.9	73.6	62.7	10.92	6.743		
2,000.0	1,997.5	2,005.8	2,003.3	5.9	5.9	149.53	31.6	28.4	74.0	63.1	10.94	6.763		
2,090.0	2,085.8	2,095.4	2,091.8	6.2	6.1	146.89	41.3	18.3	81.9	70.5	11.34	7.221		
2,100.0	2,095.6	2,105.3	2,101.6	6.2	6.1	146.69	42.4	17.2	82.9	71.5	11.38	7.283		
2,185.0	2,178.5	2,189.7	2,184.9	6.5	6.4	145.66	51.6	7.7	92.9	81.1	11.79	7.876		
2,200.1	2,193.1	2,204.7	2,199.7	6.6	6.4	145.59	53.2	6.0	94.8	83.0	11.86	7.993		
2,280.0	2,270.7	2,283.9	2,277.9	6.8	6.6	145.41	61.8	-2.9	105.5	93.3	12.23	8.627		
2,300.0	2,290.1	2,303.7	2,297.5	6.9	6.7	145.37	64.0	-5.1	108.2	95.9	12.32	8.780		
2,375.0	2,362.9	2,378.0	2,370.9	7.1	6.9	145.23	72.1	-13.5	118.2	105.5	12.68	9.323		
2,400.0	2,387.1	2,402.8	2,395.4	7.2	7.0	145.19	74.8	-16.3	121.6	108.8	12.80	9.497		
2,470.0	2,455.0	2,472.2	2,463.9	7.5	7.2	145.10	82.3	-24.1	130.9	117.8	13.15	9.959		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
2,500.0	2,484.1	2,501.9	2,493.3	7.6	7.3	145.06	85.5	-27.4	134.9	121.6	13.29	10.149		
2,565.0	2,547.2	2,566.3	2,556.9	7.8	7.6	144.98	92.6	-34.7	143.6	130.0	13.62	10.541		
2,600.0	2,581.2	2,601.0	2,591.1	7.9	7.7	144.94	96.3	-38.6	148.3	134.5	13.80	10.743		
2,660.0	2,639.4	2,660.5	2,649.9	8.2	7.9	144.89	102.8	-45.3	156.3	142.2	14.12	11.073		
2,700.0	2,678.2	2,700.1	2,689.0	8.3	8.0	144.85	107.1	-49.7	161.6	147.3	14.33	11.284		
2,755.0	2,731.6	2,754.6	2,742.9	8.5	8.2	144.80	113.0	-55.9	169.0	154.4	14.62	11.561		
2,800.0	2,775.2	2,799.2	2,786.9	8.7	8.4	144.77	117.9	-60.9	175.0	160.2	14.86	11.778		
2,850.0	2,823.7	2,848.8	2,835.9	8.9	8.6	144.73	123.3	-66.4	181.7	166.6	15.13	12.008		
2,900.0	2,872.3	2,898.3	2,884.8	9.1	8.7	144.70	128.7	-72.0	188.4	173.0	15.40	12.229		
2,945.0	2,915.9	2,942.9	2,928.8	9.3	8.9	144.67	133.5	-77.0	194.4	178.7	15.65	12.419		
3,000.0	2,969.3	2,997.4	2,982.7	9.5	9.1	144.64	139.4	-83.2	201.7	185.8	15.96	12.643		
3,040.0	3,008.1	3,037.1	3,021.8	9.7	9.3	144.62	143.8	-87.6	207.1	190.9	16.18	12.797		
3,100.0	3,066.3	3,096.5	3,080.6	9.9	9.5	144.59	150.2	-94.3	215.1	198.6	16.52	13.021		
3,135.0	3,100.3	3,131.2	3,114.8	10.1	9.6	144.57	154.0	-98.2	219.8	203.1	16.72	13.146		
3,200.0	3,163.3	3,195.6	3,178.4	10.3	9.9	144.54	161.0	-105.5	228.5	211.4	17.09	13.370		
3,230.0	3,192.5	3,225.4	3,207.8	10.5	10.0	144.53	164.2	-108.8	232.5	215.2	17.26	13.468		
3,300.0	3,260.4	3,294.7	3,276.3	10.8	10.3	144.50	171.8	-116.6	241.8	224.2	17.67	13.690		
3,325.0	3,284.6	3,319.5	3,300.8	10.9	10.4	144.49	174.5	-119.4	245.2	227.4	17.81	13.766		
3,400.0	3,357.4	3,393.8	3,374.2	11.2	10.7	144.47	182.6	-127.8	255.2	237.0	18.25	13.986		
3,420.0	3,376.8	3,413.7	3,393.8	11.3	10.7	144.46	184.7	-130.0	257.9	239.5	18.37	14.042		
3,500.0	3,454.4	3,492.9	3,472.1	11.6	11.1	144.43	193.3	-138.9	268.6	249.7	18.84	14.259		
3,515.0	3,469.0	3,507.8	3,486.8	11.7	11.1	144.43	195.0	-140.6	270.6	251.7	18.92	14.299		
3,600.0	3,551.5	3,592.0	3,570.0	12.1	11.5	144.40	204.1	-150.1	281.9	262.5	19.43	14.513		
3,610.0	3,561.2	3,601.9	3,579.8	12.1	11.5	144.40	205.2	-151.2	283.3	263.8	19.49	14.537		
3,700.0	3,648.5	3,691.1	3,667.8	12.5	11.9	144.38	214.9	-161.2	295.3	275.3	20.02	14.748		
3,705.0	3,653.3	3,696.1	3,672.7	12.5	11.9	144.38	215.4	-161.8	296.0	275.9	20.05	14.759		
3,800.0	3,745.5	3,790.2	3,765.7	13.0	12.3	144.35	225.7	-172.3	308.7	288.1	20.62	14.967		
3,895.0	3,837.7	3,884.4	3,858.7	13.4	12.6	144.33	235.9	-182.9	321.4	300.2	21.20	15.160		
3,900.0	3,842.5	3,889.3	3,863.6	13.4	12.7	144.33	236.5	-183.5	322.0	300.8	21.23	15.170		
3,990.0	3,929.9	3,978.5	3,951.7	13.8	13.0	144.31	246.2	-193.5	334.1	312.3	21.78	15.342		
4,000.0	3,939.6	3,988.4	3,961.5	13.9	13.1	144.31	247.2	-194.6	335.4	313.6	21.84	15.360		
4,085.0	4,022.1	4,072.7	4,044.7	14.3	13.4	144.29	256.4	-204.1	346.8	324.4	22.36	15.512		
4,100.0	4,036.6	4,087.6	4,059.4	14.3	13.5	144.29	258.0	-205.8	348.8	326.3	22.45	15.538		
4,180.0	4,114.2	4,166.8	4,137.7	14.7	13.8	144.28	266.6	-214.7	359.5	336.5	22.95	15.667		
4,200.0	4,133.6	4,186.7	4,157.3	14.8	13.9	144.27	268.8	-216.9	362.1	339.1	23.07	15.698		
4,275.0	4,206.4	4,259.6	4,229.4	15.1	14.2	144.29	276.6	-225.0	372.3	348.7	23.53	15.824		
4,300.0	4,230.7	4,283.7	4,253.2	15.3	14.3	144.32	279.0	-227.5	375.7	352.0	23.68	15.867		
4,370.0	4,298.6	4,351.1	4,320.0	15.6	14.6	144.49	285.5	-234.2	385.6	361.5	24.13	15.985		
4,400.0	4,327.7	4,380.0	4,348.6	15.7	14.7	144.58	288.1	-236.9	390.0	365.7	24.32	16.034		
4,465.0	4,390.8	4,442.4	4,410.6	16.0	14.9	144.86	293.3	-242.3	399.6	374.9	24.76	16.143		
4,500.0	4,424.7	4,476.0	4,443.9	16.2	15.1	145.04	296.0	-245.1	404.9	379.9	25.00	16.201		
4,560.0	4,482.9	4,533.4	4,501.0	16.5	15.3	145.39	300.2	-249.4	414.3	388.9	25.41	16.302		
4,600.0	4,521.8	4,571.7	4,539.1	16.6	15.4	145.65	302.8	-252.1	420.7	395.0	25.70	16.369		
4,655.0	4,575.1	4,624.1	4,591.3	16.9	15.6	146.06	306.0	-255.4	429.6	403.5	26.10	16.463		
4,700.0	4,618.8	4,667.0	4,634.0	17.1	15.8	146.41	308.4	-257.9	437.1	410.7	26.43	16.542		
4,750.0	4,667.3	4,714.5	4,681.4	17.3	16.0	146.84	310.8	-260.4	445.7	418.9	26.80	16.630		
4,800.0	4,715.8	4,761.8	4,728.7	17.6	16.1	147.30	313.0	-262.6	454.5	427.3	27.18	16.720		
4,845.0	4,759.5	4,804.4	4,771.1	17.8	16.3	147.73	314.7	-264.4	462.6	435.0	27.53	16.803		
4,900.0	4,812.8	4,856.2	4,822.9	18.0	16.5	148.28	316.4	-266.2	472.7	444.7	27.95	16.909		
4,940.0	4,851.7	4,893.8	4,860.5	18.2	16.6	148.70	317.5	-267.3	480.2	451.9	28.27	16.988		
5,000.0	4,909.9	4,950.1	4,916.7	18.5	16.8	149.35	318.8	-268.6	491.8	463.1	28.74	17.112		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,035.0	4,943.8	4,982.8	4,949.5	18.7	16.8	149.74	319.3	-269.2	498.7	469.7	29.02	17.187	
5,100.0	5,006.9	5,043.4	5,010.0	19.0	17.0	150.49	320.0	-269.9	511.9	482.4	29.52	17.341	
5,130.0	5,036.0	5,071.3	5,037.9	19.1	17.0	150.84	320.2	-270.1	518.2	488.4	29.75	17.416	
5,200.0	5,103.9	5,137.4	5,104.0	19.5	17.1	151.68	320.3	-270.2	533.0	502.7	30.29	17.600	
5,225.0	5,128.2	5,161.7	5,128.3	19.6	17.1	151.99	320.3	-270.2	538.4	507.9	30.47	17.667	
5,300.0	5,201.0	5,234.4	5,201.1	19.9	17.1	152.86	320.3	-270.2	554.6	523.6	31.04	17.869	
5,320.0	5,220.4	5,253.8	5,220.5	20.0	17.2	153.09	320.3	-270.2	558.9	527.7	31.18	17.923	
5,400.0	5,298.0	5,331.5	5,298.1	20.4	17.2	153.95	320.3	-270.2	576.4	544.6	31.77	18.139	
5,415.0	5,312.5	5,346.0	5,312.6	20.5	17.2	154.11	320.3	-270.2	579.6	547.8	31.88	18.180	
5,500.0	5,395.0	5,428.5	5,395.1	20.9	17.2	154.97	320.3	-270.2	598.3	565.8	32.50	18.411	
5,510.0	5,404.7	5,438.2	5,404.8	20.9	17.3	155.06	320.3	-270.2	600.5	567.9	32.57	18.438	
5,600.0	5,492.0	5,525.5	5,492.1	21.4	17.3	155.91	320.3	-270.2	620.4	587.2	33.21	18.683	
5,605.0	5,496.9	5,530.4	5,497.0	21.4	17.3	155.95	320.3	-270.2	621.5	588.3	33.24	18.697	
5,700.0	5,589.1	5,622.5	5,589.2	21.8	17.4	156.78	320.3	-270.2	642.7	608.8	33.91	18.955	
5,795.0	5,681.3	5,714.7	5,681.4	22.3	17.4	157.56	320.3	-270.2	664.0	629.4	34.56	19.212	
5,800.0	5,686.1	5,719.6	5,686.2	22.3	17.4	157.60	320.3	-270.2	665.1	630.5	34.59	19.226	
5,890.0	5,773.4	5,806.9	5,773.5	22.7	17.4	158.29	320.3	-270.2	685.4	650.2	35.20	19.468	
5,900.0	5,783.1	5,816.6	5,783.2	22.8	17.5	158.37	320.3	-270.2	687.6	652.3	35.27	19.495	
5,985.0	5,865.6	5,899.1	5,865.7	23.2	17.5	158.98	320.3	-270.2	706.8	671.0	35.84	19.722	
6,000.0	5,880.2	5,913.6	5,880.3	23.3	17.5	159.08	320.3	-270.2	710.2	674.3	35.94	19.761	
6,080.0	5,957.8	5,991.3	5,957.9	23.7	17.5	159.62	320.3	-270.2	728.4	692.0	36.47	19.973	
6,100.0	5,977.2	6,010.7	5,977.3	23.8	17.6	159.76	320.3	-270.2	733.0	696.4	36.60	20.026	
6,175.0	6,050.0	6,083.4	6,050.1	24.1	17.6	160.23	320.3	-270.2	750.1	713.0	37.09	20.222	
6,200.0	6,074.2	6,107.7	6,074.3	24.2	17.6	160.39	320.3	-270.2	755.8	718.5	37.26	20.287	
6,270.0	6,142.1	6,175.6	6,142.2	24.6	17.6	160.81	320.3	-270.2	771.8	734.1	37.71	20.468	
6,300.0	6,171.2	6,204.7	6,171.3	24.7	17.7	160.98	320.3	-270.2	778.7	740.8	37.90	20.545	
6,365.0	6,234.3	6,267.8	6,234.4	25.0	17.7	161.35	320.3	-270.2	793.6	755.3	38.32	20.711	
6,400.0	6,268.3	6,301.7	6,268.4	25.2	17.7	161.55	320.3	-270.2	801.7	763.1	38.54	20.800	
6,460.0	6,326.5	6,360.0	6,326.6	25.5	17.8	161.87	320.3	-270.2	815.5	776.6	38.93	20.951	
6,500.0	6,365.3	6,398.8	6,365.4	25.7	17.8	162.08	320.3	-270.2	824.7	785.6	39.18	21.051	
6,555.0	6,418.7	6,452.1	6,418.8	25.9	17.8	162.36	320.3	-270.2	837.4	797.9	39.53	21.187	
6,600.0	6,462.3	6,495.8	6,462.4	26.2	17.8	162.58	320.3	-270.2	847.9	808.0	39.81	21.298	
6,650.0	6,510.8	6,544.3	6,510.9	26.4	17.9	162.82	320.3	-270.2	859.4	819.3	40.12	21.420	
6,700.0	6,559.4	6,592.8	6,559.5	26.6	17.9	163.05	320.3	-270.2	871.0	830.6	40.43	21.542	
6,745.0	6,603.0	6,636.5	6,603.1	26.9	17.9	163.26	320.3	-270.2	881.5	840.8	40.71	21.652	
6,772.7	6,629.9	6,663.4	6,630.0	27.0	17.9	163.38	320.3	-270.2	887.9	847.0	40.88	21.720	
6,800.0	6,656.4	6,689.9	6,656.5	27.1	17.9	163.54	320.3	-270.2	894.1	853.1	41.04	21.786	
6,840.0	6,695.4	6,728.9	6,695.5	27.3	18.0	163.75	320.3	-270.2	902.8	861.5	41.29	21.866	
6,900.0	6,754.1	6,787.5	6,754.2	27.6	18.0	164.04	320.3	-270.2	914.9	873.2	41.66	21.963	
6,935.0	6,788.4	6,821.9	6,788.5	27.8	18.0	164.19	320.3	-270.2	921.4	879.5	41.86	22.010	
7,000.0	6,852.4	6,885.9	6,852.5	28.1	18.0	164.44	320.3	-270.2	932.4	890.1	42.24	22.074	
7,030.0	6,882.0	6,915.5	6,882.1	28.2	18.1	164.54	320.3	-270.2	937.0	894.6	42.40	22.096	
7,100.0	6,951.3	6,984.8	6,951.4	28.5	18.1	164.75	320.3	-270.2	946.6	903.8	42.79	22.122	
7,125.0	6,976.1	7,009.6	6,976.2	28.6	18.1	164.82	320.3	-270.2	949.6	906.7	42.92	22.126	
7,200.0	7,050.7	7,084.1	7,050.8	29.0	18.2	164.99	320.3	-270.2	957.4	914.1	43.30	22.111	
7,220.0	7,070.6	7,104.1	7,070.7	29.0	18.2	165.02	320.3	-270.2	959.2	915.8	43.39	22.104	
7,300.0	7,150.4	7,183.8	7,150.5	29.3	18.2	165.15	320.3	-270.2	964.9	921.1	43.77	22.047	
7,315.0	7,165.3	7,198.8	7,165.4	29.4	18.2	165.16	320.3	-270.2	965.8	921.9	43.83	22.035	
7,400.0	7,250.3	7,283.7	7,250.4	29.7	18.3	165.23	320.3	-270.2	969.1	924.9	44.17	21.937	
7,410.0	7,260.3	7,293.7	7,260.4	29.7	18.3	165.24	320.3	-270.2	969.3	925.1	44.20	21.931	
7,472.7	7,323.0	7,356.5	7,323.1	29.8	18.3	88.99	320.3	-270.2	970.0	925.6	44.33	21.879	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
7,500.0	7,350.3	7,383.7	7,350.4	29.8	18.3	88.99	320.3	-270.2	970.0	925.6	44.35	21.869	
7,505.0	7,355.3	7,388.7	7,355.4	29.8	18.3	88.99	320.3	-270.2	970.0	925.6	44.36	21.867	
7,600.0	7,450.3	7,483.7	7,450.4	29.8	18.4	88.99	320.3	-270.2	970.0	925.5	44.45	21.822	
7,695.0	7,545.3	7,578.7	7,545.4	29.8	18.4	88.99	320.3	-270.2	970.0	925.4	44.54	21.778	
7,700.0	7,550.3	7,583.7	7,550.4	29.8	18.4	88.99	320.3	-270.2	970.0	925.4	44.54	21.775	
7,790.0	7,640.3	7,673.7	7,640.4	29.9	18.5	88.99	320.3	-270.2	970.0	925.3	44.63	21.733	
7,800.0	7,650.3	7,683.7	7,650.4	29.9	18.5	88.99	320.3	-270.2	970.0	925.3	44.64	21.729	
7,885.0	7,735.3	7,768.7	7,735.4	29.9	18.5	88.99	320.3	-270.2	970.0	925.2	44.72	21.689	
7,900.0	7,750.3	7,783.7	7,750.4	29.9	18.6	88.99	320.3	-270.2	970.0	925.2	44.74	21.682	
7,980.0	7,830.3	7,863.7	7,830.4	29.9	18.6	88.99	320.3	-270.2	970.0	925.1	44.81	21.645	
8,000.0	7,850.3	7,883.7	7,850.4	29.9	18.6	88.99	320.3	-270.2	970.0	925.1	44.83	21.635	
8,075.0	7,925.3	7,958.7	7,925.4	30.0	18.7	88.99	320.3	-270.2	970.0	925.0	44.90	21.600	
8,100.0	7,950.3	7,983.7	7,950.4	30.0	18.7	88.99	320.3	-270.2	970.0	925.0	44.93	21.589	
8,170.0	8,020.3	8,053.7	8,020.4	30.0	18.7	88.99	320.3	-270.2	970.0	925.0	45.00	21.556	
8,200.0	8,050.3	8,083.7	8,050.4	30.0	18.7	88.99	320.3	-270.2	970.0	924.9	45.03	21.542	
8,265.0	8,115.3	8,148.7	8,115.4	30.0	18.8	88.99	320.3	-270.2	970.0	924.9	45.09	21.512	
8,300.0	8,150.3	8,183.7	8,150.4	30.0	18.8	88.99	320.3	-270.2	970.0	924.8	45.12	21.495	
8,360.0	8,210.3	8,243.7	8,210.4	30.0	18.8	88.99	320.3	-270.2	970.0	924.8	45.18	21.467	
8,400.0	8,250.3	8,283.7	8,250.4	30.1	18.8	88.99	320.3	-270.2	970.0	924.7	45.22	21.449	
8,455.0	8,305.3	8,338.7	8,305.4	30.1	18.9	88.99	320.3	-270.2	970.0	924.7	45.28	21.423	
8,500.0	8,350.3	8,383.7	8,350.4	30.1	18.9	88.99	320.3	-270.2	970.0	924.6	45.32	21.402	
8,529.8	8,380.0	8,413.5	8,380.1	30.1	18.9	88.99	320.3	-270.2	970.0	924.6	45.34	21.394	
8,550.0	8,400.3	8,433.8	8,400.4	30.1	18.9	-91.50	320.3	-270.2	970.0	924.6	45.34	21.393	
8,600.0	8,450.1	8,486.2	8,452.7	30.1	18.9	-91.60	317.8	-270.2	970.0	924.7	45.35	21.389	
8,645.0	8,494.5	8,533.4	8,499.5	30.1	19.0	-91.67	311.4	-270.3	970.0	924.7	45.36	21.383	
8,650.0	8,499.4	8,538.7	8,504.7	30.1	19.0	-91.67	310.5	-270.3	970.0	924.7	45.37	21.382	
8,700.0	8,547.8	8,591.3	8,555.9	30.1	19.0	-91.74	298.4	-270.4	970.1	924.7	45.38	21.374	
8,740.0	8,585.6	8,633.5	8,596.0	30.1	19.1	-91.78	285.4	-270.5	970.1	924.7	45.40	21.367	
8,750.0	8,594.9	8,644.1	8,605.9	30.1	19.1	-91.79	281.6	-270.5	970.1	924.7	45.41	21.365	
8,800.0	8,640.4	8,696.9	8,654.2	30.1	19.1	-91.83	260.3	-270.7	970.1	924.7	45.43	21.353	
8,835.0	8,671.0	8,733.9	8,686.8	30.1	19.2	-91.84	242.8	-270.8	970.1	924.7	45.45	21.343	
8,850.0	8,683.8	8,749.8	8,700.4	30.1	19.2	-91.85	234.6	-270.9	970.1	924.7	45.46	21.339	
8,900.0	8,725.0	8,802.7	8,744.1	30.2	19.2	-91.86	204.8	-271.2	970.1	924.6	45.50	21.322	
8,930.0	8,748.5	8,834.4	8,768.9	30.2	19.2	-91.85	185.0	-271.3	970.1	924.6	45.52	21.310	
8,950.0	8,763.6	8,855.6	8,784.8	30.2	19.3	-91.85	171.0	-271.4	970.1	924.6	45.54	21.302	
9,000.0	8,799.2	8,908.4	8,822.2	30.2	19.3	-91.83	133.7	-271.7	970.1	924.5	45.59	21.278	
9,025.0	8,815.9	8,934.8	8,839.5	30.2	19.3	-91.81	113.8	-271.9	970.1	924.5	45.62	21.265	
9,050.0	8,831.7	8,961.3	8,855.9	30.2	19.4	-91.79	93.1	-272.1	970.1	924.5	45.65	21.251	
9,100.0	8,860.7	9,014.0	8,885.8	30.2	19.4	-91.74	49.6	-272.4	970.1	924.4	45.72	21.219	
9,120.0	8,871.3	9,035.1	8,896.6	30.2	19.4	-91.71	31.5	-272.6	970.1	924.3	45.75	21.205	
9,150.0	8,886.0	9,066.6	8,911.5	30.3	19.5	-91.67	3.7	-272.8	970.0	924.2	45.79	21.182	
9,200.0	8,907.5	9,119.2	8,932.8	30.3	19.5	-91.59	-44.3	-273.2	970.0	924.1	45.88	21.142	
9,215.0	8,913.2	9,134.9	8,938.3	30.3	19.5	-91.57	-59.0	-273.3	970.0	924.1	45.91	21.129	
9,250.0	8,925.0	9,171.5	8,949.6	30.3	19.6	-91.50	-93.9	-273.6	970.0	924.0	45.98	21.097	
9,300.0	8,938.4	9,223.7	8,961.7	30.4	19.6	-91.40	-144.6	-274.0	969.9	923.8	46.08	21.048	
9,310.0	8,940.5	9,234.2	8,963.6	30.4	19.6	-91.38	-154.9	-274.1	969.9	923.8	46.10	21.038	
9,350.0	8,947.5	9,275.8	8,969.2	30.4	19.7	-91.28	-196.1	-274.5	969.9	923.7	46.19	20.996	
9,400.0	8,952.2	9,327.6	8,972.0	30.5	19.7	-91.16	-247.8	-274.9	969.8	923.5	46.31	20.941	
9,405.0	8,952.5	9,332.7	8,972.0	30.5	19.7	-91.15	-253.0	-274.9	969.8	923.5	46.32	20.935	
9,429.0	8,953.0	9,356.7	8,972.0	30.5	19.7	-91.12	-277.0	-275.1	969.8	923.4	46.38	20.910	
9,429.3	8,953.0	9,357.1	8,972.0	30.5	19.7	-91.12	-277.3	-275.1	969.8	923.4	46.38	20.910	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Measured	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		
9,500.0	8,953.1	9,427.7	8,972.1	30.6	19.8	-91.12	-348.0	-275.7	969.8	923.2	46.58	20.823		
9,595.0	8,953.1	9,522.7	8,972.1	30.7	19.9	-91.12	-442.9	-276.5	969.8	922.9	46.89	20.684		
9,600.0	8,953.1	9,527.7	8,972.1	30.7	19.9	-91.12	-447.9	-276.5	969.8	922.9	46.90	20.677		
9,690.0	8,953.2	9,617.7	8,972.2	30.9	20.0	-91.11	-537.9	-277.3	969.8	922.6	47.24	20.528		
9,700.0	8,953.2	9,627.7	8,972.2	30.9	20.1	-91.11	-547.9	-277.4	969.8	922.5	47.28	20.511		
9,785.0	8,953.3	9,712.7	8,972.2	31.0	20.2	-91.11	-632.9	-278.1	969.8	922.2	47.64	20.356		
9,800.0	8,953.3	9,727.7	8,972.2	31.1	20.2	-91.11	-647.9	-278.2	969.8	922.1	47.71	20.327		
9,880.0	8,953.4	9,807.7	8,972.3	31.2	20.3	-91.11	-727.9	-278.9	969.8	921.7	48.09	20.168		
9,900.0	8,953.4	9,827.7	8,972.3	31.2	20.4	-91.11	-747.9	-279.0	969.8	921.6	48.19	20.126		
9,975.0	8,953.4	9,902.7	8,972.3	31.4	20.5	-91.11	-822.9	-279.6	969.8	921.3	48.57	19.967		
10,000.0	8,953.5	9,927.7	8,972.4	31.5	20.6	-91.11	-847.9	-279.9	969.8	921.1	48.71	19.911		
10,070.0	8,953.5	9,997.7	8,972.4	31.6	20.7	-91.11	-917.9	-280.4	969.8	920.7	49.10	19.753		
10,100.0	8,953.5	10,027.7	8,972.4	31.7	20.8	-91.11	-947.9	-280.7	969.8	920.6	49.27	19.683		
10,165.0	8,953.6	10,092.7	8,972.5	31.8	20.9	-91.11	-1,012.9	-281.2	969.8	920.2	49.66	19.529		
10,200.0	8,953.6	10,127.7	8,972.5	31.9	21.0	-91.11	-1,047.9	-281.5	969.8	919.9	49.88	19.444		
10,260.0	8,953.7	10,187.7	8,972.5	32.1	21.2	-91.11	-1,107.9	-282.0	969.8	919.6	50.26	19.296		
10,300.0	8,953.7	10,227.7	8,972.5	32.2	21.3	-91.11	-1,147.9	-282.3	969.8	919.3	50.52	19.196		
10,355.0	8,953.7	10,282.7	8,972.6	32.3	21.4	-91.11	-1,202.9	-282.8	969.8	918.9	50.90	19.055		
10,400.0	8,953.8	10,327.7	8,972.6	32.4	21.6	-91.11	-1,247.9	-283.2	969.8	918.6	51.21	18.940		
10,450.0	8,953.8	10,377.7	8,972.6	32.6	21.7	-91.11	-1,297.9	-283.6	969.8	918.3	51.56	18.808		
10,500.0	8,953.9	10,427.7	8,972.7	32.7	21.9	-91.10	-1,347.9	-284.0	969.8	917.9	51.93	18.677		
10,545.0	8,953.9	10,472.7	8,972.7	32.8	22.0	-91.10	-1,392.9	-284.4	969.8	917.6	52.26	18.556		
10,600.0	8,953.9	10,527.7	8,972.7	33.0	22.2	-91.10	-1,447.9	-284.8	969.8	917.1	52.68	18.409		
10,640.0	8,954.0	10,567.7	8,972.7	33.1	22.3	-91.10	-1,487.9	-285.1	969.8	916.8	52.99	18.301		
10,700.0	8,954.0	10,627.7	8,972.8	33.3	22.5	-91.10	-1,547.9	-285.6	969.8	916.4	53.47	18.138		
10,735.0	8,954.0	10,662.7	8,972.8	33.4	22.7	-91.10	-1,582.9	-285.9	969.8	916.1	53.75	18.042		
10,800.0	8,954.1	10,727.7	8,972.8	33.6	22.9	-91.10	-1,647.9	-286.5	969.8	915.5	54.29	17.865		
10,830.0	8,954.1	10,757.7	8,972.9	33.7	23.0	-91.10	-1,677.9	-286.7	969.8	915.3	54.54	17.781		
10,900.0	8,954.2	10,827.7	8,972.9	34.0	23.3	-91.10	-1,747.9	-287.3	969.8	914.7	55.14	17.589		
10,925.0	8,954.2	10,852.7	8,972.9	34.0	23.4	-91.10	-1,772.9	-287.5	969.8	914.5	55.36	17.520		
11,000.0	8,954.3	10,927.7	8,973.0	34.3	23.8	-91.10	-1,847.9	-288.1	969.8	913.8	56.01	17.314		
11,020.0	8,954.3	10,947.7	8,973.0	34.4	23.8	-91.10	-1,867.9	-288.3	969.8	913.6	56.19	17.259		
11,100.0	8,954.3	11,027.7	8,973.0	34.7	24.2	-91.10	-1,947.9	-288.9	969.8	912.9	56.92	17.039		
11,115.0	8,954.4	11,042.7	8,973.0	34.7	24.3	-91.10	-1,962.9	-289.1	969.8	912.8	57.06	16.998		
11,200.0	8,954.4	11,127.7	8,973.1	35.0	24.7	-91.10	-2,047.9	-289.8	969.8	912.0	57.85	16.765		
11,210.0	8,954.4	11,137.7	8,973.1	35.1	24.7	-91.10	-2,057.9	-289.8	969.8	911.9	57.94	16.738		
11,300.0	8,954.5	11,227.7	8,973.1	35.4	25.2	-91.10	-2,147.9	-290.6	969.8	911.0	58.80	16.493		
11,305.0	8,954.5	11,232.7	8,973.1	35.4	25.2	-91.10	-2,152.9	-290.6	969.8	911.0	58.85	16.480		
11,400.0	8,954.6	11,327.7	8,973.2	35.8	25.7	-91.09	-2,247.9	-291.4	969.8	910.1	59.78	16.224		
11,495.0	8,954.7	11,422.7	8,973.3	36.2	26.1	-91.09	-2,342.9	-292.2	969.8	909.1	60.73	15.970		
11,500.0	8,954.7	11,427.7	8,973.3	36.2	26.2	-91.09	-2,347.9	-292.2	969.8	909.1	60.78	15.957		
11,590.0	8,954.7	11,517.7	8,973.3	36.6	26.7	-91.09	-2,437.9	-293.0	969.8	908.1	61.70	15.720		
11,600.0	8,954.7	11,527.7	8,973.3	36.6	26.7	-91.09	-2,447.9	-293.1	969.8	908.0	61.80	15.694		
11,685.0	8,954.8	11,612.7	8,973.4	37.0	27.2	-91.09	-2,532.9	-293.8	969.8	907.2	62.68	15.473		
11,700.0	8,954.8	11,627.7	8,973.4	37.1	27.3	-91.09	-2,547.9	-293.9	969.8	907.0	62.84	15.434		
11,780.0	8,954.9	11,707.7	8,973.4	37.4	27.7	-91.09	-2,627.9	-294.6	969.8	906.2	63.68	15.229		
11,800.0	8,954.9	11,727.7	8,973.4	37.5	27.8	-91.09	-2,647.9	-294.7	969.8	905.9	63.90	15.178		
11,875.0	8,955.0	11,802.7	8,973.5	37.8	28.2	-91.09	-2,722.9	-295.3	969.8	905.1	64.70	14.989		
11,900.0	8,955.0	11,827.7	8,973.5	37.9	28.4	-91.09	-2,747.9	-295.5	969.8	904.9	64.97	14.927		
11,970.0	8,955.0	11,897.7	8,973.5	38.3	28.8	-91.09	-2,817.9	-296.1	969.8	904.1	65.74	14.754		
12,000.0	8,955.1	11,927.7	8,973.6	38.4	29.0	-91.09	-2,847.9	-296.4	969.8	903.8	66.07	14.680		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
12,065.0	8,955.1	11,992.7	8,973.6	38.7	29.4	-91.09	-2,912.9	-296.9	969.8	903.1	66.79	14.522	
12,100.0	8,955.1	12,027.7	8,973.6	38.9	29.6	-91.09	-2,947.9	-297.2	969.8	902.7	67.18	14.438	
12,160.0	8,955.2	12,087.7	8,973.7	39.2	29.9	-91.08	-3,007.9	-297.7	969.8	902.0	67.85	14.294	
12,200.0	8,955.2	12,127.7	8,973.7	39.3	30.2	-91.08	-3,047.9	-298.0	969.8	901.5	68.30	14.200	
12,255.0	8,955.3	12,182.7	8,973.7	39.6	30.5	-91.08	-3,102.9	-298.5	969.8	900.9	68.93	14.071	
12,300.0	8,955.3	12,227.7	8,973.7	39.8	30.8	-91.08	-3,147.9	-298.9	969.8	900.4	69.44	13.967	
12,350.0	8,955.3	12,277.7	8,973.8	40.1	31.1	-91.08	-3,197.9	-299.3	969.8	899.8	70.02	13.852	
12,400.0	8,955.4	12,327.7	8,973.8	40.3	31.4	-91.08	-3,247.9	-299.7	969.9	899.3	70.59	13.738	
12,445.0	8,955.4	12,372.7	8,973.8	40.5	31.7	-91.08	-3,292.8	-300.1	969.9	898.7	71.12	13.637	
12,500.0	8,955.5	12,427.7	8,973.9	40.8	32.0	-91.08	-3,347.8	-300.5	969.9	898.1	71.76	13.515	
12,540.0	8,955.5	12,467.7	8,973.9	41.0	32.3	-91.08	-3,387.8	-300.8	969.9	897.6	72.23	13.427	
12,600.0	8,955.6	12,527.7	8,973.9	41.3	32.7	-91.08	-3,447.8	-301.3	969.9	896.9	72.94	13.296	
12,635.0	8,955.6	12,562.7	8,973.9	41.5	32.9	-91.08	-3,482.8	-301.6	969.9	896.5	73.36	13.221	
12,700.0	8,955.6	12,627.7	8,974.0	41.8	33.3	-91.08	-3,547.8	-302.2	969.9	895.7	74.13	13.083	
12,730.0	8,955.7	12,657.7	8,974.0	42.0	33.5	-91.08	-3,577.8	-302.4	969.9	895.4	74.49	13.019	
12,800.0	8,955.7	12,727.7	8,974.0	42.4	34.0	-91.08	-3,647.8	-303.0	969.9	894.5	75.34	12.874	
12,825.0	8,955.7	12,752.7	8,974.1	42.5	34.1	-91.08	-3,672.8	-303.2	969.9	894.2	75.64	12.822	
12,900.0	8,955.8	12,827.7	8,974.1	42.9	34.6	-91.08	-3,747.8	-303.8	969.9	893.3	76.55	12.669	
12,920.0	8,955.8	12,847.7	8,974.1	43.0	34.8	-91.08	-3,767.8	-304.0	969.9	893.1	76.80	12.629	
13,000.0	8,955.9	12,927.7	8,974.2	43.4	35.3	-91.07	-3,847.8	-304.6	969.9	892.1	77.78	12.470	
13,015.0	8,955.9	12,942.7	8,974.2	43.5	35.4	-91.07	-3,862.8	-304.8	969.9	891.9	77.96	12.440	
13,100.0	8,956.0	13,027.7	8,974.2	44.0	35.9	-91.07	-3,947.8	-305.5	969.9	890.8	79.01	12.275	
13,110.0	8,956.0	13,037.7	8,974.2	44.0	36.0	-91.07	-3,957.8	-305.5	969.9	890.7	79.13	12.256	
13,200.0	8,956.0	13,127.7	8,974.3	44.5	36.6	-91.07	-4,047.8	-306.3	969.9	889.6	80.26	12.085	
13,205.0	8,956.0	13,132.7	8,974.3	44.6	36.6	-91.07	-4,052.8	-306.3	969.9	889.5	80.32	12.075	
13,300.0	8,956.1	13,227.7	8,974.3	45.1	37.3	-91.07	-4,147.8	-307.1	969.9	888.4	81.51	11.899	
13,395.0	8,956.2	13,322.7	8,974.4	45.6	37.9	-91.07	-4,242.8	-307.9	969.9	887.2	82.71	11.726	
13,400.0	8,956.2	13,327.7	8,974.4	45.7	38.0	-91.07	-4,247.8	-307.9	969.9	887.1	82.77	11.717	
13,490.0	8,956.3	13,417.7	8,974.5	46.2	38.6	-91.07	-4,337.8	-308.7	969.9	885.9	83.92	11.558	
13,500.0	8,956.3	13,427.7	8,974.5	46.2	38.6	-91.07	-4,347.8	-308.8	969.9	885.8	84.04	11.540	
13,585.0	8,956.3	13,512.7	8,974.5	46.7	39.2	-91.07	-4,432.8	-309.5	969.9	884.7	85.13	11.393	
13,600.0	8,956.4	13,527.7	8,974.5	46.8	39.3	-91.07	-4,447.8	-309.6	969.9	884.5	85.32	11.367	
13,680.0	8,956.4	13,607.7	8,974.6	47.3	39.9	-91.07	-4,527.8	-310.3	969.9	883.5	86.35	11.232	
13,700.0	8,956.4	13,627.7	8,974.6	47.4	40.0	-91.07	-4,547.8	-310.4	969.9	883.3	86.61	11.198	
13,775.0	8,956.5	13,702.7	8,974.6	47.8	40.5	-91.07	-4,622.8	-311.0	969.9	882.3	87.58	11.074	
13,800.0	8,956.5	13,727.7	8,974.6	48.0	40.7	-91.07	-4,647.8	-311.2	969.9	882.0	87.90	11.033	
13,870.0	8,956.6	13,797.7	8,974.7	48.4	41.2	-91.06	-4,717.8	-311.8	969.9	881.1	88.81	10.920	
13,900.0	8,956.6	13,827.7	8,974.7	48.5	41.4	-91.06	-4,747.8	-312.1	969.9	880.7	89.21	10.872	
13,965.0	8,956.6	13,892.7	8,974.7	48.9	41.8	-91.06	-4,812.8	-312.6	969.9	879.8	90.06	10.770	
14,000.0	8,956.7	13,927.7	8,974.8	49.1	42.1	-91.06	-4,847.8	-312.9	969.9	879.4	90.51	10.715	
14,060.0	8,956.7	13,987.7	8,974.8	49.5	42.5	-91.06	-4,907.8	-313.4	969.9	878.6	91.30	10.623	
14,100.0	8,956.8	14,027.7	8,974.8	49.7	42.8	-91.06	-4,947.8	-313.7	969.9	878.0	91.83	10.562	
14,155.0	8,956.8	14,082.7	8,974.9	50.1	43.2	-91.06	-5,002.8	-314.2	969.9	877.3	92.55	10.479	
14,200.0	8,956.8	14,127.7	8,974.9	50.3	43.5	-91.06	-5,047.8	-314.5	969.9	876.7	93.15	10.412	
14,250.0	8,956.9	14,177.7	8,974.9	50.6	43.8	-91.06	-5,097.8	-315.0	969.9	876.1	93.81	10.338	
14,300.0	8,956.9	14,227.7	8,974.9	50.9	44.2	-91.06	-5,147.8	-315.4	969.9	875.4	94.48	10.266	
14,345.0	8,957.0	14,272.7	8,975.0	51.2	44.5	-91.06	-5,192.8	-315.7	969.9	874.8	95.08	10.201	
14,400.0	8,957.0	14,327.7	8,975.0	51.6	44.9	-91.06	-5,247.8	-316.2	969.9	874.1	95.81	10.123	
14,440.0	8,957.0	14,367.7	8,975.0	51.8	45.2	-91.06	-5,287.8	-316.5	969.9	873.5	96.34	10.067	
14,500.0	8,957.1	14,427.7	8,975.1	52.2	45.6	-91.06	-5,347.8	-317.0	969.9	872.7	97.15	9.984	
14,535.0	8,957.1	14,462.7	8,975.1	52.4	45.9	-91.06	-5,382.8	-317.3	969.9	872.3	97.62	9.935	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance			Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,600.0	8,957.2	14,527.7	8,975.1	52.8	46.3	-91.06	-5,447.8	-317.9	969.9	871.4	98.49	9.847		
14,630.0	8,957.2	14,557.7	8,975.1	53.0	46.5	-91.06	-5,477.8	-318.1	969.9	871.0	98.90	9.807		
14,700.0	8,957.2	14,627.7	8,975.2	53.4	47.0	-91.05	-5,547.8	-318.7	969.9	870.0	99.84	9.714		
14,725.0	8,957.3	14,652.7	8,975.2	53.6	47.2	-91.05	-5,572.8	-318.9	969.9	869.7	100.18	9.682		
14,800.0	8,957.3	14,727.7	8,975.2	54.0	47.7	-91.05	-5,647.8	-319.5	969.9	868.7	101.19	9.584		
14,820.0	8,957.3	14,747.7	8,975.3	54.2	47.9	-91.05	-5,667.8	-319.7	969.9	868.4	101.46	9.559		
14,900.0	8,957.4	14,827.7	8,975.3	54.7	48.5	-91.05	-5,747.8	-320.3	969.9	867.3	102.55	9.457		
14,915.0	8,957.4	14,842.7	8,975.3	54.8	48.6	-91.05	-5,762.8	-320.5	969.9	867.1	102.76	9.439		
15,000.0	8,957.5	14,927.7	8,975.4	55.3	49.2	-91.05	-5,847.8	-321.2	969.9	866.0	103.91	9.333		
15,010.0	8,957.5	14,937.7	8,975.4	55.4	49.2	-91.05	-5,857.8	-321.2	969.9	865.8	104.05	9.321		
15,100.0	8,957.6	15,027.7	8,975.4	56.0	49.9	-91.05	-5,947.8	-322.0	969.9	864.6	105.28	9.212		
15,105.0	8,957.6	15,032.7	8,975.4	56.0	49.9	-91.05	-5,952.8	-322.0	969.9	864.5	105.35	9.206		
15,200.0	8,957.6	15,127.7	8,975.5	56.6	50.6	-91.05	-6,047.8	-322.8	969.9	863.2	106.65	9.094		
15,295.0	8,957.7	15,222.7	8,975.5	57.2	51.3	-91.05	-6,142.8	-323.6	969.9	861.9	107.96	8.984		
15,300.0	8,957.7	15,227.7	8,975.5	57.2	51.3	-91.05	-6,147.8	-323.6	969.9	861.9	108.03	8.978		
15,390.0	8,957.8	15,317.7	8,975.6	57.8	52.0	-91.05	-6,237.7	-324.4	969.9	860.6	109.27	8.876		
15,400.0	8,957.8	15,327.7	8,975.6	57.9	52.0	-91.05	-6,247.7	-324.5	969.9	860.5	109.41	8.865		
15,485.0	8,957.9	15,412.7	8,975.7	58.4	52.7	-91.04	-6,332.7	-325.2	969.9	859.3	110.58	8.771		
15,500.0	8,957.9	15,427.7	8,975.7	58.5	52.8	-91.04	-6,347.7	-325.3	969.9	859.1	110.79	8.754		
15,580.0	8,957.9	15,507.7	8,975.7	59.1	53.3	-91.04	-6,427.7	-326.0	969.9	858.0	111.90	8.667		
15,600.0	8,958.0	15,527.7	8,975.7	59.2	53.5	-91.04	-6,447.7	-326.1	969.9	857.7	112.18	8.646		
15,675.0	8,958.0	15,602.7	8,975.8	59.7	54.0	-91.04	-6,522.7	-326.7	969.9	856.7	113.22	8.566		
15,700.0	8,958.0	15,627.7	8,975.8	59.8	54.2	-91.04	-6,547.7	-326.9	969.9	856.3	113.57	8.540		
15,770.0	8,958.1	15,697.7	8,975.8	60.3	54.7	-91.04	-6,617.7	-327.5	969.9	855.3	114.54	8.467		
15,800.0	8,958.1	15,727.7	8,975.8	60.5	54.9	-91.04	-6,647.7	-327.8	969.9	854.9	114.96	8.437		
15,865.0	8,958.2	15,792.7	8,975.9	60.9	55.4	-91.04	-6,712.7	-328.3	969.9	854.0	115.87	8.370		
15,900.0	8,958.2	15,827.7	8,975.9	61.2	55.7	-91.04	-6,747.7	-328.6	969.9	853.5	116.36	8.335		
15,960.0	8,958.3	15,887.7	8,975.9	61.6	56.1	-91.04	-6,807.7	-329.1	969.9	852.7	117.20	8.276		
16,000.0	8,958.3	15,927.7	8,976.0	61.8	56.4	-91.04	-6,847.7	-329.4	969.9	852.1	117.76	8.236		
16,055.0	8,958.3	15,982.7	8,976.0	62.2	56.8	-91.04	-6,902.7	-329.9	969.9	851.4	118.53	8.183		
16,100.0	8,958.4	16,027.7	8,976.0	62.5	57.1	-91.04	-6,947.7	-330.2	969.9	850.7	119.16	8.139		
16,150.0	8,958.4	16,077.7	8,976.1	62.8	57.5	-91.04	-6,997.7	-330.7	969.9	850.0	119.87	8.091		
16,200.0	8,958.4	16,127.7	8,976.1	63.1	57.9	-91.04	-7,047.7	-331.1	969.9	849.3	120.57	8.044		
16,245.0	8,958.5	16,172.7	8,976.1	63.5	58.2	-91.04	-7,092.7	-331.4	969.9	848.7	121.20	8.002		
16,300.0	8,958.5	16,227.7	8,976.1	63.8	58.6	-91.03	-7,147.7	-331.9	969.9	847.9	121.98	7.951		
16,340.0	8,958.6	16,267.7	8,976.2	64.1	58.9	-91.03	-7,187.7	-332.2	969.9	847.3	122.54	7.915		
16,400.0	8,958.6	16,327.7	8,976.2	64.5	59.3	-91.03	-7,247.7	-332.7	969.9	846.5	123.39	7.860		
16,435.0	8,958.6	16,362.7	8,976.2	64.7	59.6	-91.03	-7,282.7	-333.0	969.9	846.0	123.89	7.829		
16,500.0	8,958.7	16,427.7	8,976.3	65.2	60.1	-91.03	-7,347.7	-333.6	969.9	845.1	124.80	7.771		
16,530.0	8,958.7	16,457.7	8,976.3	65.4	60.3	-91.03	-7,377.7	-333.8	969.9	844.7	125.23	7.745		
16,600.0	8,958.8	16,527.7	8,976.3	65.8	60.8	-91.03	-7,447.7	-334.4	969.9	843.7	126.22	7.684		
16,625.0	8,958.8	16,552.7	8,976.3	66.0	61.0	-91.03	-7,472.7	-334.6	969.9	843.3	126.58	7.663		
16,700.0	8,958.8	16,627.7	8,976.4	66.5	61.5	-91.03	-7,547.7	-335.2	969.9	842.3	127.64	7.599		
16,720.0	8,958.9	16,647.7	8,976.4	66.7	61.7	-91.03	-7,567.7	-335.4	969.9	842.0	127.93	7.582		
16,800.0	8,958.9	16,727.7	8,976.4	67.2	62.3	-91.03	-7,647.7	-336.0	969.9	840.8	129.06	7.515		
16,815.0	8,958.9	16,742.7	8,976.5	67.3	62.4	-91.03	-7,662.7	-336.2	969.9	840.6	129.28	7.502		
16,900.0	8,959.0	16,827.7	8,976.5	67.9	63.0	-91.03	-7,747.7	-336.9	969.9	839.4	130.49	7.433		
16,910.0	8,959.0	16,837.7	8,976.5	67.9	63.1	-91.03	-7,757.7	-336.9	969.9	839.3	130.63	7.425		
17,000.0	8,959.1	16,927.7	8,976.6	68.6	63.7	-91.03	-7,847.7	-337.7	969.9	838.0	131.91	7.352		
17,005.0	8,959.1	16,932.7	8,976.6	68.6	63.8	-91.03	-7,852.7	-337.7	969.9	837.9	131.99	7.349		
17,100.0	8,959.2	17,027.7	8,976.6	69.2	64.5	-91.03	-7,947.7	-338.5	969.9	836.6	133.34	7.274		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
17,195.0	8,959.2	17,122.7	8,976.7	69.9	65.2	-91.02	-8,042.7	-339.3	969.9	835.2	134.70	7.200
17,200.0	8,959.3	17,127.7	8,976.7	69.9	65.2	-91.02	-8,047.7	-339.3	969.9	835.1	134.77	7.196
17,290.0	8,959.3	17,217.7	8,976.7	70.6	65.9	-91.02	-8,137.7	-340.1	969.9	833.8	136.06	7.128
17,300.0	8,959.3	17,227.7	8,976.7	70.6	66.0	-91.02	-8,147.7	-340.2	969.9	833.7	136.21	7.121
17,385.0	8,959.4	17,312.7	8,976.8	71.2	66.6	-91.02	-8,232.7	-340.9	969.9	832.5	137.43	7.058
17,400.0	8,959.4	17,327.7	8,976.8	71.3	66.7	-91.02	-8,247.7	-341.0	969.9	832.3	137.64	7.047
17,480.0	8,959.5	17,407.7	8,976.9	71.9	67.3	-91.02	-8,327.7	-341.6	969.9	831.1	138.79	6.988
17,500.0	8,959.5	17,427.7	8,976.9	72.0	67.4	-91.02	-8,347.7	-341.8	969.9	830.8	139.08	6.974
17,575.0	8,959.6	17,502.7	8,976.9	72.5	68.0	-91.02	-8,422.7	-342.4	969.9	829.7	140.16	6.920
17,600.0	8,959.6	17,527.7	8,976.9	72.7	68.2	-91.02	-8,447.7	-342.6	969.9	829.4	140.52	6.902
17,670.0	8,959.6	17,597.7	8,977.0	73.2	68.7	-91.02	-8,517.7	-343.2	969.9	828.4	141.53	6.853
17,700.0	8,959.7	17,627.7	8,977.0	73.4	68.9	-91.02	-8,547.7	-343.5	969.9	827.9	141.96	6.832
17,765.0	8,959.7	17,692.7	8,977.0	73.8	69.4	-91.02	-8,612.7	-344.0	969.9	827.0	142.90	6.787
17,800.0	8,959.7	17,727.7	8,977.0	74.1	69.7	-91.02	-8,647.7	-344.3	969.9	826.5	143.40	6.764
17,860.0	8,959.8	17,787.7	8,977.1	74.5	70.1	-91.02	-8,707.7	-344.8	969.9	825.6	144.27	6.723
17,900.0	8,959.8	17,827.7	8,977.1	74.8	70.4	-91.02	-8,747.7	-345.1	969.9	825.1	144.85	6.696
17,955.0	8,959.9	17,882.7	8,977.1	75.2	70.8	-91.02	-8,802.7	-345.6	969.9	824.3	145.64	6.660
18,000.0	8,959.9	17,927.7	8,977.2	75.5	71.1	-91.01	-8,847.7	-345.9	969.9	823.6	146.29	6.630
18,050.0	8,959.9	17,977.7	8,977.2	75.8	71.5	-91.01	-8,897.7	-346.4	969.9	822.9	147.01	6.597
18,100.0	8,960.0	18,027.7	8,977.2	76.2	71.9	-91.01	-8,947.7	-346.8	969.9	822.2	147.74	6.565
18,145.0	8,960.0	18,072.7	8,977.3	76.5	72.2	-91.01	-8,992.7	-347.1	969.9	821.5	148.39	6.536
18,200.0	8,960.1	18,127.7	8,977.3	76.9	72.6	-91.01	-9,047.7	-347.6	969.9	820.7	149.19	6.501
18,240.0	8,960.1	18,167.7	8,977.3	77.2	72.9	-91.01	-9,087.7	-347.9	969.9	820.1	149.77	6.476
18,300.0	8,960.1	18,227.7	8,977.3	77.6	73.4	-91.01	-9,147.6	-348.4	969.9	819.3	150.64	6.439
18,335.0	8,960.2	18,262.7	8,977.4	77.8	73.6	-91.01	-9,182.6	-348.7	969.9	818.8	151.15	6.417
18,400.0	8,960.2	18,327.7	8,977.4	78.3	74.1	-91.01	-9,247.6	-349.2	969.9	817.8	152.09	6.377
18,430.0	8,960.2	18,357.7	8,977.4	78.5	74.3	-91.01	-9,277.6	-349.5	969.9	817.4	152.53	6.359
18,500.0	8,960.3	18,427.7	8,977.5	79.0	74.9	-91.01	-9,347.6	-350.1	969.9	816.4	153.54	6.317
18,525.0	8,960.3	18,452.7	8,977.5	79.2	75.0	-91.01	-9,372.6	-350.3	969.9	816.0	153.91	6.302
18,600.0	8,960.4	18,527.7	8,977.5	79.7	75.6	-91.01	-9,447.6	-350.9	969.9	814.9	155.00	6.258
18,620.0	8,960.4	18,547.7	8,977.5	79.8	75.8	-91.01	-9,467.6	-351.1	969.9	814.6	155.29	6.246
18,700.0	8,960.5	18,627.7	8,977.6	80.4	76.4	-91.01	-9,547.6	-351.7	969.9	813.5	156.46	6.199
18,715.0	8,960.5	18,642.7	8,977.6	80.5	76.5	-91.01	-9,562.6	-351.8	969.9	813.2	156.67	6.191
18,800.0	8,960.5	18,727.7	8,977.6	81.1	77.1	-91.00	-9,647.6	-352.6	969.9	812.0	157.91	6.142
18,810.0	8,960.5	18,737.7	8,977.7	81.2	77.2	-91.00	-9,657.6	-352.6	969.9	811.9	158.06	6.136
18,900.0	8,960.6	18,827.7	8,977.7	81.8	77.8	-91.00	-9,747.6	-353.4	969.9	810.5	159.37	6.086
18,905.0	8,960.6	18,832.7	8,977.7	81.8	77.9	-91.00	-9,752.6	-353.4	969.9	810.5	159.44	6.083
19,000.0	8,960.7	18,927.7	8,977.8	82.5	78.6	-91.00	-9,847.6	-354.2	969.9	809.1	160.83	6.031
19,095.0	8,960.8	19,022.7	8,977.8	83.2	79.3	-91.00	-9,942.6	-355.0	969.9	807.7	162.22	5.979
19,100.0	8,960.8	19,027.7	8,977.8	83.2	79.3	-91.00	-9,947.6	-355.0	969.9	807.6	162.29	5.976
19,190.0	8,960.9	19,117.7	8,977.9	83.9	80.0	-91.00	-10,037.6	-355.8	969.9	806.3	163.61	5.928
19,200.0	8,960.9	19,127.7	8,977.9	83.9	80.1	-91.00	-10,047.6	-355.9	969.9	806.2	163.76	5.923
19,285.0	8,960.9	19,212.7	8,977.9	84.6	80.7	-91.00	-10,132.6	-356.6	969.9	804.9	165.00	5.878
19,300.0	8,960.9	19,227.7	8,978.0	84.7	80.8	-91.00	-10,147.6	-356.7	969.9	804.7	165.22	5.871
19,380.0	8,961.0	19,307.7	8,978.0	85.2	81.4	-91.00	-10,227.6	-357.3	969.9	803.5	166.39	5.829
19,400.0	8,961.0	19,327.7	8,978.0	85.4	81.6	-91.00	-10,247.6	-357.5	969.9	803.2	166.68	5.819
19,475.0	8,961.1	19,402.7	8,978.1	85.9	82.1	-91.00	-10,322.6	-358.1	969.9	802.1	167.78	5.781
19,500.0	8,961.1	19,427.7	8,978.1	86.1	82.3	-91.00	-10,347.6	-358.3	969.9	801.8	168.15	5.768
19,570.0	8,961.2	19,497.7	8,978.1	86.6	82.9	-91.00	-10,417.6	-358.9	969.9	800.8	169.18	5.733
19,600.0	8,961.2	19,527.7	8,978.1	86.8	83.1	-91.00	-10,447.6	-359.2	969.9	800.3	169.62	5.718
19,665.0	8,961.2	19,592.7	8,978.2	87.3	83.6	-90.99	-10,512.6	-359.7	969.9	799.4	170.57	5.686

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance						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		
19,700.0	8,961.3	19,627.7	8,978.2	87.5	83.8	-90.99	-10,547.6	-360.0	969.9	798.8	171.09	5.669		
19,760.0	8,961.3	19,687.7	8,978.2	87.9	84.3	-90.99	-10,607.6	-360.5	969.9	798.0	171.97	5.640		
19,800.0	8,961.3	19,727.7	8,978.3	88.2	84.6	-90.99	-10,647.6	-360.8	969.9	797.4	172.56	5.621		
19,855.0	8,961.4	19,782.7	8,978.3	88.6	85.0	-90.99	-10,702.6	-361.3	969.9	796.6	173.36	5.595		
19,900.0	8,961.4	19,827.7	8,978.3	88.9	85.3	-90.99	-10,747.6	-361.6	969.9	795.9	174.03	5.574		
19,950.0	8,961.5	19,877.7	8,978.3	89.3	85.7	-90.99	-10,797.6	-362.1	969.9	795.2	174.76	5.550		
20,000.0	8,961.5	19,927.7	8,978.4	89.7	86.1	-90.99	-10,847.6	-362.5	969.9	794.4	175.50	5.527		
20,045.0	8,961.5	19,972.7	8,978.4	90.0	86.4	-90.99	-10,892.6	-362.8	969.9	793.8	176.16	5.506		
20,100.0	8,961.6	20,027.7	8,978.4	90.4	86.8	-90.99	-10,947.6	-363.3	969.9	793.0	176.97	5.481		
20,140.0	8,961.6	20,067.7	8,978.5	90.7	87.1	-90.99	-10,987.6	-363.6	969.9	792.4	177.56	5.463		
20,200.0	8,961.7	20,127.7	8,978.5	91.1	87.6	-90.99	-11,047.6	-364.1	969.9	791.5	178.44	5.436		
20,235.0	8,961.7	20,162.7	8,978.5	91.4	87.8	-90.99	-11,082.6	-364.4	969.9	791.0	178.96	5.420		
20,300.0	8,961.7	20,227.7	8,978.6	91.8	88.3	-90.99	-11,147.6	-364.9	969.9	790.0	179.92	5.391		
20,330.0	8,961.8	20,257.7	8,978.6	92.0	88.6	-90.99	-11,177.6	-365.2	969.9	789.6	180.36	5.378		
20,400.0	8,961.8	20,327.7	8,978.6	92.5	89.1	-90.99	-11,247.6	-365.8	969.9	788.5	181.39	5.347		
20,425.0	8,961.8	20,352.7	8,978.6	92.7	89.3	-90.99	-11,272.6	-366.0	969.9	788.2	181.76	5.336		
20,500.0	8,961.9	20,427.7	8,978.7	93.3	89.8	-90.98	-11,347.6	-366.6	969.9	787.1	182.87	5.304		
20,520.0	8,961.9	20,447.7	8,978.7	93.4	90.0	-90.98	-11,367.6	-366.8	969.9	786.8	183.16	5.296		
20,600.0	8,962.0	20,527.7	8,978.7	94.0	90.6	-90.98	-11,447.6	-367.4	969.9	785.6	184.34	5.262		
20,615.0	8,962.0	20,542.7	8,978.7	94.1	90.7	-90.98	-11,462.6	-367.5	969.9	785.4	184.56	5.255		
20,700.0	8,962.1	20,627.7	8,978.8	94.7	91.3	-90.98	-11,547.6	-368.2	969.9	784.1	185.82	5.220		
20,710.0	8,962.1	20,637.7	8,978.8	94.8	91.4	-90.98	-11,557.6	-368.3	969.9	784.0	185.97	5.216		
20,800.0	8,962.1	20,727.7	8,978.9	95.4	92.1	-90.98	-11,647.6	-369.1	969.9	782.6	187.30	5.179		
20,805.0	8,962.2	20,732.7	8,978.9	95.5	92.1	-90.98	-11,652.6	-369.1	969.9	782.6	187.37	5.177		
20,900.0	8,962.2	20,827.7	8,978.9	96.2	92.8	-90.98	-11,747.6	-369.9	969.9	781.2	188.78	5.138		
20,995.0	8,962.3	20,922.7	8,979.0	96.9	93.6	-90.98	-11,842.6	-370.7	969.9	779.8	190.18	5.100		
21,000.0	8,962.3	20,927.7	8,979.0	96.9	93.6	-90.98	-11,847.6	-370.7	969.9	779.7	190.26	5.098		
21,090.0	8,962.4	21,017.7	8,979.0	97.5	94.3	-90.98	-11,937.6	-371.5	969.9	778.4	191.59	5.063		
21,100.0	8,962.4	21,027.7	8,979.0	97.6	94.3	-90.98	-11,947.6	-371.6	969.9	778.2	191.74	5.059		
21,185.0	8,962.5	21,112.7	8,979.1	98.2	95.0	-90.98	-12,032.5	-372.3	969.9	776.9	193.00	5.026		
21,200.0	8,962.5	21,127.7	8,979.1	98.3	95.1	-90.98	-12,047.5	-372.4	969.9	776.7	193.22	5.020		
21,280.0	8,962.5	21,207.7	8,979.1	98.9	95.7	-90.98	-12,127.5	-373.0	969.9	775.5	194.40	4.989		
21,300.0	8,962.5	21,227.7	8,979.2	99.1	95.8	-90.97	-12,147.5	-373.2	969.9	775.2	194.70	4.982		
21,375.0	8,962.6	21,302.7	8,979.2	99.6	96.4	-90.97	-12,222.5	-373.8	969.9	774.1	195.81	4.953		
21,400.0	8,962.6	21,327.7	8,979.2	99.8	96.6	-90.97	-12,247.5	-374.0	969.9	773.8	196.18	4.944		
21,470.0	8,962.7	21,397.7	8,979.3	100.3	97.1	-90.97	-12,317.5	-374.6	969.9	772.7	197.22	4.918		
21,500.0	8,962.7	21,427.7	8,979.3	100.5	97.4	-90.97	-12,347.5	-374.9	969.9	772.3	197.67	4.907		
21,565.0	8,962.8	21,492.7	8,979.3	101.0	97.8	-90.97	-12,412.5	-375.4	970.0	771.3	198.63	4.883		
21,600.0	8,962.8	21,527.7	8,979.3	101.3	98.1	-90.97	-12,447.5	-375.7	970.0	770.8	199.15	4.870		
21,660.0	8,962.8	21,587.7	8,979.4	101.7	98.6	-90.97	-12,507.5	-376.2	970.0	769.9	200.04	4.849		
21,700.0	8,962.9	21,627.7	8,979.4	102.0	98.9	-90.97	-12,547.5	-376.5	970.0	769.3	200.64	4.834		
21,755.0	8,962.9	21,682.7	8,979.4	102.4	99.3	-90.97	-12,602.5	-377.0	970.0	768.5	201.45	4.815		
21,800.0	8,963.0	21,727.7	8,979.5	102.7	99.6	-90.97	-12,647.5	-377.3	970.0	767.8	202.12	4.799		
21,850.0	8,963.0	21,777.7	8,979.5	103.1	100.0	-90.97	-12,697.5	-377.7	970.0	767.1	202.86	4.781		
21,900.0	8,963.0	21,827.7	8,979.5	103.4	100.4	-90.97	-12,747.5	-378.2	970.0	766.3	203.61	4.764		
21,945.0	8,963.1	21,872.7	8,979.5	103.8	100.7	-90.97	-12,792.5	-378.5	970.0	765.7	204.28	4.748		
22,000.0	8,963.1	21,927.7	8,979.6	104.2	101.1	-90.97	-12,847.5	-379.0	970.0	764.9	205.09	4.729		
22,040.0	8,963.1	21,967.7	8,979.6	104.5	101.4	-90.97	-12,887.5	-379.3	970.0	764.3	205.69	4.716		
22,100.0	8,963.2	22,027.7	8,979.6	104.9	101.9	-90.97	-12,947.5	-379.8	970.0	763.4	206.58	4.695		
22,135.0	8,963.2	22,062.7	8,979.7	105.2	102.1	-90.96	-12,982.5	-380.1	970.0	762.9	207.10	4.683		
22,200.0	8,963.3	22,127.7	8,979.7	105.6	102.6	-90.96	-13,047.5	-380.6	970.0	761.9	208.07	4.662		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Between	Between	Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
22,230.0	8,963.3	22,157.7	8,979.7	105.9	102.9	-90.96	-13,077.5	-380.9	970.0	761.4	208.51	4.652	
22,300.0	8,963.4	22,227.7	8,979.8	106.4	103.4	-90.96	-13,147.5	-381.5	970.0	760.4	209.56	4.629	
22,325.0	8,963.4	22,252.7	8,979.8	106.6	103.6	-90.96	-13,172.5	-381.7	970.0	760.0	209.93	4.620	
22,400.0	8,963.4	22,327.7	8,979.8	107.1	104.1	-90.96	-13,247.5	-382.3	970.0	758.9	211.05	4.596	
22,420.0	8,963.5	22,347.7	8,979.8	107.2	104.3	-90.96	-13,267.5	-382.5	970.0	758.6	211.34	4.590	
22,500.0	8,963.5	22,427.7	8,979.9	107.8	104.9	-90.96	-13,347.5	-383.1	970.0	757.4	212.53	4.564	
22,515.0	8,963.5	22,442.7	8,979.9	107.9	105.0	-90.96	-13,362.5	-383.2	970.0	757.2	212.76	4.559	
22,600.0	8,963.6	22,527.7	8,979.9	108.6	105.6	-90.96	-13,447.5	-383.9	970.0	755.9	214.02	4.532	
22,610.0	8,963.6	22,537.7	8,979.9	108.6	105.7	-90.96	-13,457.5	-384.0	970.0	755.8	214.17	4.529	
22,700.0	8,963.7	22,627.7	8,980.0	109.3	106.4	-90.96	-13,547.5	-384.8	970.0	754.4	215.52	4.501	
22,705.0	8,963.7	22,632.7	8,980.0	109.3	106.4	-90.96	-13,552.5	-384.8	970.0	754.4	215.59	4.499	
22,800.0	8,963.8	22,727.7	8,980.1	110.0	107.2	-90.96	-13,647.5	-385.6	970.0	753.0	217.01	4.470	
22,895.0	8,963.8	22,822.7	8,980.1	110.7	107.9	-90.96	-13,742.5	-386.4	970.0	751.5	218.42	4.441	
22,900.0	8,963.8	22,827.7	8,980.1	110.8	107.9	-90.96	-13,747.5	-386.4	970.0	751.5	218.50	4.439	
22,990.0	8,963.9	22,917.7	8,980.2	111.4	108.6	-90.95	-13,837.5	-387.2	970.0	750.1	219.84	4.412	
23,000.0	8,963.9	22,927.7	8,980.2	111.5	108.7	-90.95	-13,847.5	-387.2	970.0	750.0	219.99	4.409	
23,085.0	8,964.0	23,012.7	8,980.2	112.1	109.3	-90.95	-13,932.5	-388.0	970.0	748.7	221.26	4.384	
23,100.0	8,964.0	23,027.7	8,980.2	112.2	109.4	-90.95	-13,947.5	-388.1	970.0	748.5	221.48	4.379	
23,180.0	8,964.1	23,107.7	8,980.3	112.8	110.0	-90.95	-14,027.5	-388.7	970.0	747.3	222.68	4.356	
23,200.0	8,964.1	23,127.7	8,980.3	113.0	110.2	-90.95	-14,047.5	-388.9	970.0	747.0	222.98	4.350	
23,275.0	8,964.1	23,202.7	8,980.3	113.5	110.7	-90.95	-14,122.5	-389.5	970.0	745.9	224.10	4.328	
23,300.0	8,964.2	23,227.7	8,980.4	113.7	110.9	-90.95	-14,147.5	-389.7	970.0	745.5	224.47	4.321	
23,370.0	8,964.2	23,297.7	8,980.4	114.2	111.5	-90.95	-14,217.5	-390.3	970.0	744.5	225.51	4.301	
23,400.0	8,964.2	23,327.7	8,980.4	114.4	111.7	-90.95	-14,247.5	-390.6	970.0	744.0	225.96	4.293	
23,465.0	8,964.3	23,392.7	8,980.5	114.9	112.2	-90.95	-14,312.5	-391.1	970.0	743.0	226.93	4.274	
23,500.0	8,964.3	23,427.7	8,980.5	115.2	112.4	-90.95	-14,347.5	-391.4	970.0	742.5	227.46	4.264	
23,560.0	8,964.4	23,487.7	8,980.5	115.6	112.9	-90.95	-14,407.5	-391.9	970.0	741.6	228.35	4.248	
23,600.0	8,964.4	23,527.7	8,980.5	115.9	113.2	-90.95	-14,447.5	-392.2	970.0	741.0	228.95	4.237	
23,655.0	8,964.4	23,582.7	8,980.6	116.3	113.6	-90.95	-14,502.5	-392.7	970.0	740.2	229.77	4.221	
23,700.0	8,964.5	23,627.7	8,980.6	116.7	114.0	-90.95	-14,547.5	-393.0	970.0	739.5	230.45	4.209	
23,750.0	8,964.5	23,677.7	8,980.6	117.0	114.3	-90.95	-14,597.5	-393.4	970.0	738.8	231.19	4.195	
23,800.0	8,964.6	23,727.7	8,980.7	117.4	114.7	-90.94	-14,647.5	-393.9	970.0	738.0	231.94	4.182	
23,845.0	8,964.6	23,772.7	8,980.7	117.7	115.1	-90.94	-14,692.5	-394.2	970.0	737.4	232.62	4.170	
23,900.0	8,964.6	23,827.7	8,980.7	118.1	115.5	-90.94	-14,747.5	-394.7	970.0	736.5	233.44	4.155	
23,940.0	8,964.7	23,867.7	8,980.7	118.4	115.8	-90.94	-14,787.5	-395.0	970.0	735.9	234.04	4.145	
24,000.0	8,964.7	23,927.7	8,980.8	118.9	116.2	-90.94	-14,847.5	-395.5	970.0	735.0	234.94	4.129	
24,035.0	8,964.8	23,962.7	8,980.8	119.1	116.5	-90.94	-14,882.5	-395.8	970.0	734.5	235.46	4.120	
24,100.0	8,964.8	24,027.7	8,980.8	119.6	117.0	-90.94	-14,947.4	-396.3	970.0	733.5	236.43	4.103	
24,130.0	8,964.8	24,057.7	8,980.9	119.8	117.2	-90.94	-14,977.4	-396.6	970.0	733.1	236.88	4.095	
24,200.0	8,964.9	24,127.7	8,980.9	120.4	117.7	-90.94	-15,047.4	-397.2	970.0	732.1	237.93	4.077	
24,214.6	8,964.9	24,142.3	8,980.9	120.5	117.8	-90.94	-15,062.0	-397.3	970.0	731.8	238.15	4.073	
24,225.0	8,964.9	24,152.7	8,980.9	120.5	117.9	-90.94	-15,072.4	-397.4	970.0	731.7	238.30	4.070	
24,300.0	8,965.0	24,227.7	8,981.0	121.1	118.5	-90.94	-15,147.4	-398.0	970.0	730.6	239.42	4.051	
24,320.0	8,965.0	24,247.7	8,981.0	121.2	118.6	-90.94	-15,167.4	-398.2	970.0	730.3	239.72	4.046	
24,344.7	8,965.0	24,272.4	8,981.0	121.4	118.8	-90.94	-15,192.1	-398.4	970.0	729.9	240.09	4.040	
24,345.4	8,965.0	24,273.1	8,981.0	121.4	118.8	-90.94	-15,192.8	-398.4	970.0	729.9	240.10	4.040 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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.1	0.1	3.0	3.0	89.05	0.5	30.0	30.0				
95.0	95.0	95.1	95.1	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.971	
100.0	100.0	100.1	100.1	3.0	3.0	89.05	0.5	30.0	30.0	24.0	6.04	4.967	
190.0	190.0	190.1	190.1	3.1	3.1	89.05	0.5	30.0	30.0	23.8	6.25	4.799	
200.0	200.0	200.1	200.1	3.1	3.1	89.05	0.5	30.0	30.0	23.7	6.29	4.773	
285.0	285.0	285.1	285.1	3.3	3.3	89.05	0.5	30.0	30.0	23.5	6.48	4.628	
300.0	300.0	300.1	300.1	3.3	3.3	89.05	0.5	30.0	30.0	23.5	6.52	4.600	
380.0	380.0	380.1	380.1	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.70	4.477	
400.0	400.0	400.1	400.1	3.4	3.4	89.05	0.5	30.0	30.0	23.3	6.75	4.445	
475.0	475.0	475.1	475.1	3.5	3.5	89.05	0.5	30.0	30.0	23.1	6.91	4.340	
500.0	500.0	500.1	500.1	3.5	3.5	89.05	0.5	30.0	30.0	23.0	6.97	4.304	
570.0	570.0	570.1	570.1	3.6	3.6	89.05	0.5	30.0	30.0	22.9	7.12	4.215	
600.0	600.0	600.1	600.1	3.6	3.6	89.05	0.5	30.0	30.0	22.8	7.18	4.176	
665.0	665.0	665.1	665.1	3.7	3.7	89.05	0.5	30.0	30.0	22.7	7.32	4.100	
700.0	700.0	700.1	700.1	3.8	3.8	89.05	0.5	30.0	30.0	22.6	7.39	4.059	
760.0	760.0	760.1	760.1	3.8	3.8	89.05	0.5	30.0	30.0	22.5	7.51	3.994	
800.0	800.0	800.1	800.1	3.9	3.9	89.05	0.5	30.0	30.0	22.4	7.59	3.951	
855.0	855.0	855.1	855.1	4.0	4.0	89.05	0.5	30.0	30.0	22.3	7.70	3.896	
900.0	900.0	900.1	900.1	4.0	4.0	89.05	0.5	30.0	30.0	22.2	7.79	3.851	
950.0	950.0	950.1	950.1	4.1	4.1	89.05	0.5	30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	1,000.1	1,000.1	4.1	4.1	89.05	0.5	30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,045.1	1,045.1	4.2	4.2	89.05	0.5	30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,100.1	1,100.1	4.2	4.2	89.05	0.5	30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,140.1	1,140.1	4.3	4.3	89.05	0.5	30.0	30.0	21.8	8.24	3.640	
1,200.0	1,200.0	1,200.1	1,200.1	4.4	4.4	89.05	0.5	30.0	30.0	21.7	8.35	3.592	
1,235.0	1,235.0	1,235.1	1,235.1	4.4	4.4	89.05	0.5	30.0	30.0	21.6	8.42	3.566	
1,300.0	1,300.0	1,300.1	1,300.1	4.5	4.5	89.05	0.5	30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,330.1	1,330.1	4.5	4.5	89.05	0.5	30.0	30.0	21.4	8.58	3.495	
1,400.0	1,400.0	1,400.1	1,400.1	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,425.1	1,425.1	4.6	4.6	89.05	0.5	30.0	30.0	21.3	8.75	3.429	
1,500.0	1,500.0	1,500.1	1,500.1	4.7	4.7	89.05	0.5	30.0	30.0	21.1	8.88	3.379	
1,502.7	1,502.7	1,502.8	1,502.8	4.7	4.7	165.30	0.5	30.0	30.0	21.1	8.89	3.375 CC	
1,520.0	1,520.0	1,520.3	1,520.3	4.7	4.7	165.29	0.5	29.9	30.0	21.1	8.95	3.352	
1,600.0	1,600.0	1,601.1	1,601.1	4.8	4.8	164.85	1.2	28.3	30.1	20.8	9.24	3.253	
1,615.0	1,615.0	1,616.2	1,616.2	4.9	4.9	164.71	1.4	27.8	30.1	20.8	9.32	3.228	
1,700.0	1,699.8	1,702.0	1,701.9	5.0	5.0	163.51	3.1	23.4	30.3	20.5	9.76	3.099	
1,710.0	1,709.8	1,712.1	1,712.0	5.0	5.1	163.33	3.4	22.7	30.3	20.5	9.82	3.085	
1,800.0	1,799.5	1,803.0	1,802.4	5.3	5.3	161.32	6.4	15.1	30.6	20.3	10.29	2.975	
1,805.0	1,804.4	1,808.1	1,807.5	5.3	5.3	161.19	6.6	14.6	30.6	20.3	10.32	2.970 ES	
1,900.0	1,898.7	1,904.0	1,902.6	5.5	5.6	158.34	11.0	3.6	31.2	20.4	10.82	2.882	
1,995.0	1,992.5	1,999.8	1,997.3	5.9	5.9	154.89	16.5	-10.4	32.0	20.7	11.32	2.826	
2,000.0	1,997.5	2,004.9	2,002.3	5.9	5.9	154.70	16.9	-11.3	32.0	20.7	11.35	2.824	
2,090.0	2,085.8	2,095.7	2,091.4	6.2	6.2	150.96	23.2	-27.4	33.1	21.3	11.81	2.805	
2,100.0	2,095.6	2,105.8	2,101.3	6.2	6.3	150.53	24.0	-29.3	33.3	21.4	11.86	2.805	
2,185.0	2,178.5	2,191.5	2,184.8	6.5	6.6	146.70	31.1	-47.2	34.6	22.3	12.27	2.821	
2,200.1	2,193.1	2,206.7	2,199.5	6.6	6.6	146.02	32.5	-50.6	34.9	22.6	12.34	2.828	
2,280.0	2,270.7	2,286.6	2,277.0	6.8	6.9	142.72	39.6	-68.6	36.6	23.9	12.67	2.888	
2,300.0	2,290.1	2,306.6	2,296.4	6.9	6.9	141.95	41.4	-73.1	37.0	24.3	12.75	2.905	
2,375.0	2,362.9	2,381.5	2,369.2	7.1	7.2	139.20	48.0	-89.9	38.7	25.7	13.06	2.967	
2,400.0	2,387.1	2,406.5	2,393.4	7.2	7.3	138.34	50.3	-95.6	39.3	26.2	13.16	2.989	
2,470.0	2,455.0	2,476.5	2,461.3	7.5	7.5	136.05	56.5	-111.3	41.0	27.6	13.44	3.051	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,500.0	2,484.1	2,506.4	2,490.4	7.6	7.6	135.13	59.2	-118.0	41.8	28.2	13.57	3.078		
2,565.0	2,547.2	2,571.4	2,553.4	7.8	7.9	133.25	65.0	-132.7	43.4	29.6	13.83	3.138		
2,600.0	2,581.2	2,606.4	2,587.4	7.9	8.0	132.29	68.1	-140.5	44.3	30.3	13.97	3.171		
2,660.0	2,639.4	2,666.4	2,645.5	8.2	8.2	130.74	73.4	-154.0	45.9	31.7	14.22	3.227		
2,700.0	2,678.2	2,706.3	2,684.3	8.3	8.4	129.77	77.0	-163.0	47.0	32.6	14.38	3.265		
2,755.0	2,731.6	2,761.3	2,737.7	8.5	8.6	128.49	81.9	-175.4	48.5	33.8	14.61	3.317		
2,800.0	2,775.2	2,806.3	2,781.3	8.7	8.7	127.51	85.9	-185.5	49.7	34.9	14.79	3.360		
2,850.0	2,823.7	2,856.2	2,829.8	8.9	8.9	126.48	90.4	-196.7	51.1	36.1	14.99	3.407		
2,900.0	2,872.3	2,906.2	2,878.3	9.1	9.1	125.50	94.8	-208.0	52.5	37.3	15.20	3.453		
2,945.0	2,915.9	2,951.2	2,921.9	9.3	9.3	124.66	98.8	-218.1	53.8	38.4	15.38	3.495		
3,000.0	2,969.3	3,006.2	2,975.3	9.5	9.5	123.69	103.7	-230.4	55.3	39.7	15.61	3.546		
3,040.0	3,008.1	3,046.1	3,014.1	9.7	9.7	123.01	107.3	-239.4	56.5	40.7	15.77	3.582		
3,100.0	3,066.3	3,106.1	3,072.2	9.9	10.0	122.05	112.6	-252.9	58.3	42.2	16.02	3.636		
3,135.0	3,100.3	3,141.1	3,106.2	10.1	10.1	121.52	115.8	-260.8	59.3	43.1	16.17	3.667		
3,200.0	3,163.3	3,206.1	3,169.2	10.3	10.4	120.58	121.6	-275.4	61.2	44.8	16.44	3.723		
3,230.0	3,192.5	3,236.0	3,198.3	10.5	10.5	120.16	124.2	-282.2	62.1	45.5	16.56	3.749		
3,300.0	3,260.4	3,306.0	3,266.2	10.8	10.8	119.24	130.5	-297.9	64.2	47.3	16.85	3.808		
3,325.0	3,284.6	3,331.0	3,290.4	10.9	10.9	118.93	132.7	-303.5	64.9	48.0	16.96	3.829		
3,400.0	3,357.4	3,405.9	3,363.2	11.2	11.2	118.02	139.4	-320.4	67.2	49.9	17.27	3.890		
3,420.0	3,376.8	3,425.9	3,382.6	11.3	11.3	117.79	141.2	-324.9	67.8	50.5	17.36	3.906		
3,500.0	3,454.4	3,505.9	3,460.1	11.6	11.7	116.91	148.3	-342.9	70.3	52.6	17.70	3.969		
3,515.0	3,469.0	3,520.9	3,474.7	11.7	11.7	116.75	149.6	-346.2	70.7	52.9	17.76	3.981		
3,600.0	3,551.5	3,605.8	3,557.1	12.1	12.1	115.89	157.2	-365.3	73.3	55.2	18.13	4.045		
3,610.0	3,561.2	3,615.8	3,566.8	12.1	12.2	115.79	158.1	-367.6	73.6	55.5	18.17	4.053		
3,700.0	3,648.5	3,705.8	3,654.1	12.5	12.6	114.95	166.1	-387.8	76.4	57.9	18.55	4.118		
3,705.0	3,653.3	3,710.8	3,658.9	12.5	12.6	114.90	166.6	-388.9	76.6	58.0	18.58	4.122		
3,800.0	3,745.5	3,805.7	3,751.1	13.0	13.0	114.08	175.0	-410.3	79.5	60.5	18.99	4.188		
3,895.0	3,837.7	3,900.7	3,843.2	13.4	13.4	113.32	183.5	-431.7	82.5	63.1	19.40	4.252		
3,900.0	3,842.5	3,905.7	3,848.0	13.4	13.5	113.28	183.9	-432.8	82.6	63.2	19.42	4.255		
3,990.0	3,929.9	3,995.6	3,935.3	13.8	13.9	112.61	192.0	-453.0	85.5	65.7	19.82	4.313		
4,000.0	3,939.6	4,005.6	3,945.0	13.9	13.9	112.54	192.9	-455.3	85.8	65.9	19.86	4.319		
4,085.0	4,022.1	4,090.6	4,027.4	14.3	14.3	111.95	200.4	-474.4	88.5	68.2	20.24	4.372		
4,100.0	4,036.6	4,105.6	4,042.0	14.3	14.4	111.85	201.8	-477.7	88.9	68.6	20.30	4.381		
4,180.0	4,114.2	4,185.5	4,119.6	14.7	14.7	111.34	208.9	-495.7	91.5	70.8	20.66	4.428		
4,200.0	4,133.6	4,205.5	4,139.0	14.8	14.8	111.21	210.7	-500.2	92.1	71.4	20.75	4.439		
4,275.0	4,206.4	4,280.5	4,211.7	15.1	15.2	110.76	217.4	-517.1	94.5	73.4	21.09	4.482		
4,300.0	4,230.7	4,305.4	4,235.9	15.3	15.3	110.61	219.6	-522.7	95.3	74.1	21.20	4.496		
4,370.0	4,298.6	4,375.4	4,303.8	15.6	15.6	110.22	225.8	-538.4	97.5	76.0	21.51	4.533		
4,400.0	4,327.7	4,405.4	4,332.9	15.7	15.7	110.05	228.5	-545.2	98.5	76.8	21.65	4.549		
4,465.0	4,390.8	4,470.4	4,395.9	16.0	16.0	109.71	234.3	-559.8	100.6	78.6	21.94	4.583		
4,500.0	4,424.7	4,505.3	4,429.9	16.2	16.2	109.53	237.4	-567.7	101.7	79.6	22.10	4.601		
4,560.0	4,482.9	4,565.3	4,488.1	16.5	16.5	109.23	242.8	-581.2	103.6	81.2	22.37	4.631		
4,600.0	4,521.8	4,605.3	4,526.9	16.6	16.7	109.03	246.3	-590.2	104.9	82.3	22.55	4.651		
4,655.0	4,575.1	4,660.2	4,580.1	16.9	16.9	108.81	251.2	-602.4	106.7	83.9	22.79	4.681		
4,700.0	4,618.8	4,705.0	4,623.7	17.1	17.1	108.79	255.1	-612.2	108.2	85.2	23.00	4.703		
4,750.0	4,667.3	4,754.8	4,672.2	17.3	17.3	108.99	259.2	-622.6	109.9	86.7	23.28	4.723		
4,800.0	4,715.8	4,804.5	4,720.8	17.6	17.6	109.40	263.2	-632.7	111.8	88.2	23.59	4.740		
4,845.0	4,759.5	4,849.3	4,764.5	17.8	17.8	109.94	266.6	-641.4	113.6	89.7	23.89	4.754		
4,900.0	4,812.8	4,904.0	4,818.1	18.0	18.0	110.81	270.7	-651.6	115.8	91.5	24.29	4.768		
4,940.0	4,851.7	4,943.7	4,857.1	18.2	18.2	111.57	273.5	-658.7	117.6	92.9	24.61	4.777		
5,000.0	4,909.9	5,003.3	4,915.6	18.5	18.5	112.91	277.5	-668.9	120.3	95.2	25.14	4.787		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
5,035.0	4,943.8	5,038.0	4,949.8	18.7	18.6	113.79	279.8	-674.6	122.1	96.6	25.47	4.793	
5,100.0	5,006.9	5,102.4	5,013.3	19.0	18.9	115.60	283.8	-684.7	125.5	99.4	26.15	4.801	
5,130.0	5,036.0	5,132.0	5,042.6	19.1	19.0	116.51	285.5	-689.1	127.3	100.8	26.49	4.804	
5,200.0	5,103.9	5,201.2	5,110.9	19.5	19.3	118.77	289.4	-698.8	131.6	104.3	27.35	4.813	
5,225.0	5,128.2	5,225.8	5,135.3	19.6	19.4	119.62	290.7	-702.0	133.3	105.6	27.67	4.817	
5,300.0	5,201.0	5,300.0	5,208.8	19.9	19.8	122.29	294.3	-711.3	138.8	110.0	28.72	4.831	
5,320.0	5,220.4	5,319.3	5,228.0	20.0	19.8	123.01	295.2	-713.6	140.3	111.3	29.01	4.838	
5,400.0	5,298.0	5,397.8	5,305.9	20.4	20.2	126.01	298.6	-722.2	147.2	117.0	30.24	4.868	
5,415.0	5,312.5	5,412.4	5,320.5	20.5	20.2	126.58	299.2	-723.7	148.6	118.1	30.48	4.875	
5,500.0	5,395.0	5,495.4	5,403.0	20.9	20.5	129.83	302.3	-731.5	157.1	125.2	31.87	4.930	
5,510.0	5,404.7	5,505.2	5,412.7	20.9	20.6	130.22	302.7	-732.3	158.2	126.1	32.03	4.938	
5,600.0	5,492.0	5,592.6	5,499.8	21.4	20.9	133.64	305.4	-739.2	168.6	135.1	33.55	5.027	
5,605.0	5,496.9	5,597.4	5,504.7	21.4	20.9	133.83	305.5	-739.6	169.2	135.6	33.63	5.032	
5,700.0	5,589.1	5,689.2	5,596.2	21.8	21.3	137.35	307.9	-745.4	181.9	146.7	35.22	5.164	
5,795.0	5,681.3	5,780.5	5,687.3	22.3	21.6	140.70	309.6	-749.8	196.2	159.4	36.77	5.335	
5,800.0	5,686.1	5,785.2	5,692.1	22.3	21.6	140.87	309.7	-750.0	197.0	160.1	36.85	5.345	
5,890.0	5,773.4	5,871.1	5,777.9	22.7	21.9	143.86	310.8	-752.9	212.1	173.9	38.23	5.548	
5,900.0	5,783.1	5,880.6	5,787.4	22.8	21.9	144.18	310.9	-753.2	213.9	175.5	38.38	5.572	
5,985.0	5,865.6	5,961.2	5,868.0	23.2	22.1	146.81	311.5	-754.7	229.7	190.1	39.59	5.803	
6,000.0	5,880.2	5,975.3	5,882.1	23.3	22.1	147.25	311.6	-754.8	232.7	192.9	39.80	5.847	
6,080.0	5,957.8	6,051.1	5,957.9	23.7	22.2	149.54	311.7	-755.1	249.0	208.2	40.80	6.105	
6,100.0	5,977.2	6,070.5	5,977.3	23.8	22.2	150.09	311.7	-755.1	253.3	212.2	41.03	6.172	
6,175.0	6,050.0	6,143.3	6,050.1	24.1	22.3	152.00	311.7	-755.1	269.2	227.4	41.88	6.429	
6,200.0	6,074.2	6,167.5	6,074.3	24.2	22.3	152.59	311.7	-755.1	274.6	232.5	42.15	6.515	
6,270.0	6,142.1	6,235.4	6,142.2	24.6	22.3	154.13	311.7	-755.1	289.9	247.0	42.87	6.761	
6,300.0	6,171.2	6,264.5	6,171.3	24.7	22.3	154.73	311.7	-755.1	296.4	253.3	43.16	6.868	
6,365.0	6,234.3	6,327.6	6,234.4	25.0	22.3	155.97	311.7	-755.1	310.8	267.0	43.77	7.100	
6,400.0	6,268.3	6,361.6	6,268.4	25.2	22.3	156.58	311.7	-755.1	318.6	274.5	44.09	7.226	
6,460.0	6,326.5	6,419.8	6,326.6	25.5	22.4	157.57	311.7	-755.1	332.0	287.4	44.61	7.443	
6,500.0	6,365.3	6,458.6	6,365.4	25.7	22.4	158.19	311.7	-755.1	341.0	296.1	44.95	7.588	
6,555.0	6,418.7	6,512.0	6,418.8	25.9	22.4	158.99	311.7	-755.1	353.5	308.1	45.40	7.787	
6,600.0	6,462.3	6,555.6	6,462.4	26.2	22.4	159.60	311.7	-755.1	363.7	317.9	45.75	7.949	
6,650.0	6,510.8	6,604.1	6,510.9	26.4	22.4	160.25	311.7	-755.1	375.1	329.0	46.14	8.130	
6,700.0	6,559.4	6,652.7	6,559.5	26.6	22.5	160.85	311.7	-755.1	386.5	340.0	46.51	8.310	
6,745.0	6,603.0	6,696.3	6,603.1	26.9	22.5	161.36	311.7	-755.1	396.9	350.0	46.84	8.473	
6,772.7	6,629.9	6,723.2	6,630.0	27.0	22.5	161.67	311.7	-755.1	403.2	356.2	47.04	8.573	
6,800.0	6,656.4	6,749.7	6,656.5	27.1	22.5	161.99	311.7	-755.1	409.4	362.2	47.23	8.669	
6,840.0	6,695.4	6,788.7	6,695.5	27.3	22.5	162.43	311.7	-755.1	418.0	370.5	47.51	8.800	
6,900.0	6,754.1	6,847.4	6,754.2	27.6	22.5	163.00	311.7	-755.1	430.0	382.1	47.91	8.976	
6,935.0	6,788.4	6,881.7	6,788.5	27.8	22.6	163.30	311.7	-755.1	436.5	388.4	48.13	9.068	
7,000.0	6,852.4	6,945.7	6,852.5	28.1	22.6	163.78	311.7	-755.1	447.4	398.9	48.54	9.219	
7,030.0	6,882.0	6,975.3	6,882.1	28.2	22.6	163.97	311.7	-755.1	452.0	403.3	48.71	9.280	
7,100.0	6,951.3	7,044.6	6,951.4	28.5	22.6	164.36	311.7	-755.1	461.6	412.5	49.11	9.399	
7,125.0	6,976.1	7,069.4	6,976.2	28.6	22.6	164.49	311.7	-755.1	464.6	415.4	49.24	9.435	
7,200.0	7,050.7	7,144.0	7,050.8	29.0	22.7	164.79	311.7	-755.1	472.4	422.8	49.63	9.519	
7,220.0	7,070.6	7,163.9	7,070.7	29.0	22.7	164.86	311.7	-755.1	474.2	424.5	49.73	9.536	
7,300.0	7,150.4	7,243.7	7,150.5	29.3	22.7	165.07	311.7	-755.1	479.9	429.8	50.10	9.580	
7,315.0	7,165.3	7,258.6	7,165.4	29.4	22.7	165.10	311.7	-755.1	480.8	430.6	50.16	9.585	
7,400.0	7,250.3	7,343.6	7,250.4	29.7	22.7	165.22	311.7	-755.1	484.1	433.6	50.49	9.587	
7,410.0	7,260.3	7,353.6	7,260.4	29.7	22.7	165.23	311.7	-755.1	484.3	433.8	50.51	9.588	
7,472.7	7,323.0	7,416.3	7,323.1	29.8	22.8	165.00	311.7	-755.1	485.0	434.3	50.63	9.578	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
7,500.0	7,350.3	7,443.6	7,350.4	29.8	22.8	89.00	311.7	-755.1	485.0	434.3	50.65	9.576
7,505.0	7,355.3	7,448.6	7,355.4	29.8	22.8	89.00	311.7	-755.1	485.0	434.3	50.65	9.575
7,600.0	7,450.3	7,543.6	7,450.4	29.8	22.8	89.00	311.7	-755.1	485.0	434.3	50.72	9.562
7,695.0	7,545.3	7,638.6	7,545.4	29.8	22.9	89.00	311.7	-755.1	485.0	434.2	50.79	9.549
7,700.0	7,550.3	7,643.6	7,550.4	29.8	22.9	89.00	311.7	-755.1	485.0	434.2	50.79	9.549
7,790.0	7,640.3	7,733.6	7,640.4	29.9	22.9	89.00	311.7	-755.1	485.0	434.1	50.85	9.536
7,800.0	7,650.3	7,743.6	7,650.4	29.9	22.9	89.00	311.7	-755.1	485.0	434.1	50.86	9.535
7,885.0	7,735.3	7,828.6	7,735.4	29.9	22.9	89.00	311.7	-755.1	485.0	434.1	50.92	9.524
7,900.0	7,750.3	7,843.6	7,750.4	29.9	22.9	89.00	311.7	-755.1	485.0	434.0	50.93	9.522
7,980.0	7,830.3	7,923.6	7,830.4	29.9	23.0	89.00	311.7	-755.1	485.0	434.0	50.99	9.511
8,000.0	7,850.3	7,943.6	7,850.4	29.9	23.0	89.00	311.7	-755.1	485.0	434.0	51.01	9.508
8,075.0	7,925.3	8,018.6	7,925.4	30.0	23.0	89.00	311.7	-755.1	485.0	433.9	51.06	9.498
8,100.0	7,950.3	8,043.6	7,950.4	30.0	23.0	89.00	311.7	-755.1	485.0	433.9	51.08	9.494
8,170.0	8,020.3	8,113.6	8,020.4	30.0	23.1	89.00	311.7	-755.1	485.0	433.8	51.13	9.485
8,200.0	8,050.3	8,143.6	8,050.4	30.0	23.1	89.00	311.7	-755.1	485.0	433.8	51.15	9.481
8,265.0	8,115.3	8,208.6	8,115.4	30.0	23.1	89.00	311.7	-755.1	485.0	433.8	51.20	9.472
8,300.0	8,150.3	8,243.6	8,150.4	30.0	23.1	89.00	311.7	-755.1	485.0	433.7	51.23	9.467
8,360.0	8,210.3	8,303.6	8,210.4	30.0	23.1	89.00	311.7	-755.1	485.0	433.7	51.27	9.459
8,400.0	8,250.3	8,343.6	8,250.4	30.1	23.2	89.00	311.7	-755.1	485.0	433.7	51.30	9.453
8,455.0	8,305.3	8,398.6	8,305.4	30.1	23.2	89.00	311.7	-755.1	485.0	433.6	51.34	9.446
8,500.0	8,350.3	8,443.6	8,350.4	30.1	23.2	89.00	311.7	-755.1	485.0	433.6	51.37	9.440
8,529.8	8,380.0	8,473.3	8,380.1	30.1	23.2	89.00	311.7	-755.1	485.0	433.6	51.38	9.438
8,550.0	8,400.3	8,493.8	8,400.6	30.1	23.2	-91.51	311.6	-755.1	485.0	433.6	51.39	9.438
8,600.0	8,450.1	8,545.0	8,451.6	30.1	23.2	-91.60	308.4	-755.1	485.0	433.6	51.40	9.435
8,645.0	8,494.5	8,591.1	8,497.2	30.1	23.2	-91.68	301.6	-755.2	485.0	433.6	51.42	9.432
8,650.0	8,499.4	8,596.2	8,502.3	30.1	23.2	-91.68	300.6	-755.2	485.0	433.6	51.42	9.432
8,700.0	8,547.8	8,647.5	8,552.1	30.1	23.2	-91.75	288.3	-755.3	485.0	433.6	51.45	9.428
8,740.0	8,585.6	8,688.6	8,591.0	30.1	23.3	-91.80	275.3	-755.4	485.1	433.6	51.47	9.424
8,750.0	8,594.9	8,698.8	8,600.6	30.1	23.3	-91.81	271.6	-755.4	485.1	433.6	51.47	9.423
8,800.0	8,640.4	8,750.2	8,647.5	30.1	23.3	-91.85	250.6	-755.6	485.1	433.6	51.50	9.418
8,835.0	8,671.0	8,786.2	8,679.1	30.1	23.3	-91.87	233.4	-755.7	485.1	433.5	51.53	9.414
8,850.0	8,683.8	8,801.6	8,692.3	30.1	23.3	-91.87	225.5	-755.8	485.1	433.5	51.54	9.412
8,900.0	8,725.0	8,853.1	8,734.7	30.2	23.3	-91.88	196.4	-756.1	485.1	433.5	51.58	9.405
8,930.0	8,748.5	8,883.9	8,758.9	30.2	23.3	-91.88	177.2	-756.2	485.1	433.5	51.60	9.400
8,950.0	8,763.6	8,904.5	8,774.4	30.2	23.3	-91.88	163.7	-756.3	485.1	433.5	51.62	9.397
9,000.0	8,799.2	8,955.9	8,810.9	30.2	23.4	-91.86	127.5	-756.6	485.1	433.4	51.67	9.388
9,025.0	8,815.9	8,981.6	8,827.9	30.2	23.4	-91.85	108.3	-756.8	485.1	433.4	51.70	9.383
9,050.0	8,831.7	9,007.3	8,844.0	30.2	23.4	-91.83	88.3	-756.9	485.1	433.3	51.73	9.378
9,100.0	8,860.7	9,058.7	8,873.5	30.2	23.4	-91.78	46.2	-757.3	485.0	433.3	51.79	9.366
9,120.0	8,871.3	9,079.2	8,884.2	30.2	23.4	-91.76	28.7	-757.4	485.0	433.2	51.81	9.361
9,150.0	8,886.0	9,110.0	8,899.1	30.3	23.5	-91.72	1.7	-757.7	485.0	433.2	51.85	9.354
9,200.0	8,907.5	9,161.3	8,920.5	30.3	23.5	-91.65	-44.8	-758.0	485.0	433.1	51.93	9.340
9,215.0	8,913.2	9,176.7	8,926.2	30.3	23.5	-91.62	-59.1	-758.2	485.0	433.1	51.95	9.336
9,250.0	8,925.0	9,212.5	8,937.7	30.3	23.6	-91.56	-93.0	-758.4	485.0	433.0	52.01	9.325
9,300.0	8,938.4	9,263.6	8,950.6	30.4	23.6	-91.46	-142.5	-758.9	485.0	432.9	52.09	9.309
9,310.0	8,940.5	9,273.9	8,952.6	30.4	23.6	-91.44	-152.5	-758.9	485.0	432.9	52.11	9.306
9,350.0	8,947.5	9,314.7	8,958.9	30.4	23.7	-91.35	-192.9	-759.3	485.0	432.8	52.19	9.293
9,400.0	8,952.2	9,365.7	8,962.7	30.5	23.7	-91.23	-243.7	-759.7	484.9	432.6	52.28	9.275
9,405.0	8,952.5	9,370.7	8,962.9	30.5	23.7	-91.22	-248.7	-759.7	484.9	432.6	52.29	9.273
9,429.2	8,953.0	9,395.2	8,963.0	30.5	23.8	-91.17	-273.2	-759.9	484.9	432.6	52.34	9.266
9,429.3	8,953.0	9,395.3	8,963.0	30.5	23.8	-91.17	-273.3	-759.9	484.9	432.6	52.34	9.265

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured 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)		
9,500.0	8,953.1	9,466.0	8,963.1	30.6	23.9	-91.17	-344.0	-760.5	484.9	432.4	52.50	9.237
9,595.0	8,953.1	9,561.0	8,963.1	30.7	24.0	-91.17	-439.0	-761.3	484.9	432.2	52.76	9.191
9,600.0	8,953.1	9,566.0	8,963.1	30.7	24.0	-91.17	-444.0	-761.3	484.9	432.1	52.77	9.189
9,690.0	8,953.2	9,656.0	8,963.2	30.9	24.2	-91.17	-533.9	-762.1	484.9	431.9	53.05	9.140
9,700.0	8,953.2	9,666.0	8,963.2	30.9	24.2	-91.17	-543.9	-762.2	484.9	431.8	53.09	9.134
9,785.0	8,953.3	9,751.0	8,963.2	31.0	24.4	-91.17	-628.9	-762.9	484.9	431.5	53.39	9.083
9,800.0	8,953.3	9,766.0	8,963.3	31.1	24.4	-91.16	-643.9	-763.0	484.9	431.5	53.44	9.073
9,880.0	8,953.4	9,846.0	8,963.3	31.2	24.6	-91.16	-723.9	-763.7	484.9	431.2	53.76	9.020
9,900.0	8,953.4	9,866.0	8,963.3	31.2	24.6	-91.16	-743.9	-763.8	484.9	431.1	53.84	9.006
9,975.0	8,953.4	9,941.0	8,963.4	31.4	24.8	-91.16	-818.9	-764.4	484.9	430.7	54.17	8.951
10,000.0	8,953.5	9,966.0	8,963.4	31.5	24.9	-91.16	-843.9	-764.7	484.9	430.6	54.28	8.933
10,070.0	8,953.5	10,036.0	8,963.4	31.6	25.1	-91.16	-913.9	-765.2	484.9	430.3	54.62	8.878
10,100.0	8,953.5	10,066.0	8,963.5	31.7	25.1	-91.16	-943.9	-765.5	484.9	430.2	54.76	8.855
10,165.0	8,953.6	10,131.0	8,963.5	31.8	25.3	-91.16	-1,008.9	-766.0	484.9	429.8	55.10	8.801
10,200.0	8,953.6	10,166.0	8,963.5	31.9	25.4	-91.16	-1,043.9	-766.3	484.9	429.6	55.28	8.772
10,260.0	8,953.7	10,226.0	8,963.6	32.1	25.6	-91.16	-1,103.9	-766.8	484.9	429.3	55.61	8.720
10,300.0	8,953.7	10,266.0	8,963.6	32.2	25.7	-91.16	-1,143.9	-767.1	484.9	429.1	55.84	8.685
10,355.0	8,953.7	10,321.0	8,963.6	32.3	25.9	-91.16	-1,198.9	-767.6	484.9	428.8	56.16	8.635
10,400.0	8,953.8	10,366.0	8,963.7	32.4	26.0	-91.16	-1,243.9	-768.0	484.9	428.5	56.43	8.594
10,450.0	8,953.8	10,416.0	8,963.7	32.6	26.2	-91.15	-1,293.9	-768.4	484.9	428.2	56.74	8.547
10,500.0	8,953.9	10,466.0	8,963.7	32.7	26.3	-91.15	-1,343.9	-768.8	484.9	427.9	57.06	8.499
10,545.0	8,953.9	10,511.0	8,963.8	32.8	26.5	-91.15	-1,388.9	-769.2	484.9	427.6	57.35	8.456
10,600.0	8,953.9	10,566.0	8,963.8	33.0	26.7	-91.15	-1,443.9	-769.6	484.9	427.2	57.72	8.402
10,640.0	8,954.0	10,606.0	8,963.8	33.1	26.8	-91.15	-1,483.9	-769.9	484.9	426.9	57.99	8.362
10,700.0	8,954.0	10,666.0	8,963.9	33.3	27.0	-91.15	-1,543.9	-770.4	484.9	426.5	58.41	8.302
10,735.0	8,954.0	10,701.0	8,963.9	33.4	27.1	-91.15	-1,578.9	-770.7	484.9	426.3	58.66	8.267
10,800.0	8,954.1	10,766.0	8,963.9	33.6	27.4	-91.15	-1,643.9	-771.3	484.9	425.8	59.13	8.201
10,830.0	8,954.1	10,796.0	8,963.9	33.7	27.5	-91.15	-1,673.9	-771.5	484.9	425.6	59.36	8.170
10,900.0	8,954.2	10,866.0	8,964.0	34.0	27.8	-91.15	-1,743.9	-772.1	484.9	425.0	59.89	8.097
10,925.0	8,954.2	10,891.0	8,964.0	34.0	27.9	-91.15	-1,768.9	-772.3	484.9	424.8	60.08	8.071
11,000.0	8,954.3	10,966.0	8,964.1	34.3	28.2	-91.15	-1,843.9	-772.9	484.9	424.3	60.67	7.993
11,020.0	8,954.3	10,986.0	8,964.1	34.4	28.3	-91.15	-1,863.9	-773.1	484.9	424.1	60.83	7.971
11,100.0	8,954.3	11,066.0	8,964.1	34.7	28.6	-91.14	-1,943.9	-773.8	484.9	423.4	61.48	7.887
11,115.0	8,954.4	11,081.0	8,964.1	34.7	28.7	-91.14	-1,958.9	-773.9	484.9	423.3	61.61	7.871
11,200.0	8,954.4	11,166.0	8,964.2	35.0	29.0	-91.14	-2,043.9	-774.6	484.9	422.6	62.32	7.781
11,210.0	8,954.4	11,176.0	8,964.2	35.1	29.1	-91.14	-2,053.9	-774.7	484.9	422.5	62.41	7.770
11,300.0	8,954.5	11,266.0	8,964.3	35.4	29.5	-91.14	-2,143.9	-775.4	484.9	421.7	63.19	7.674
11,305.0	8,954.5	11,271.0	8,964.3	35.4	29.5	-91.14	-2,148.9	-775.4	484.9	421.7	63.23	7.669
11,400.0	8,954.6	11,366.0	8,964.3	35.8	29.9	-91.14	-2,243.9	-776.2	484.9	420.9	64.08	7.568
11,495.0	8,954.7	11,461.0	8,964.4	36.2	30.4	-91.14	-2,338.9	-777.0	484.9	420.0	64.94	7.467
11,500.0	8,954.7	11,466.0	8,964.4	36.2	30.4	-91.14	-2,343.9	-777.1	484.9	419.9	64.99	7.462
11,590.0	8,954.7	11,556.0	8,964.5	36.6	30.8	-91.14	-2,433.9	-777.8	484.9	419.1	65.83	7.366
11,600.0	8,954.7	11,566.0	8,964.5	36.6	30.9	-91.14	-2,443.9	-777.9	484.9	419.0	65.92	7.356
11,685.0	8,954.8	11,651.0	8,964.5	37.0	31.3	-91.13	-2,528.9	-778.6	484.9	418.2	66.74	7.266
11,700.0	8,954.8	11,666.0	8,964.5	37.1	31.4	-91.13	-2,543.9	-778.7	484.9	418.0	66.88	7.251
11,780.0	8,954.9	11,746.0	8,964.6	37.4	31.8	-91.13	-2,623.9	-779.4	484.9	417.3	67.66	7.167
11,800.0	8,954.9	11,766.0	8,964.6	37.5	31.9	-91.13	-2,643.9	-779.5	484.9	417.1	67.86	7.146
11,875.0	8,955.0	11,841.0	8,964.6	37.8	32.3	-91.13	-2,718.9	-780.2	484.9	416.3	68.61	7.068
11,900.0	8,955.0	11,866.0	8,964.7	37.9	32.4	-91.13	-2,743.9	-780.4	484.9	416.1	68.86	7.043
11,970.0	8,955.0	11,936.0	8,964.7	38.3	32.8	-91.13	-2,813.9	-780.9	484.9	415.4	69.57	6.971
12,000.0	8,955.1	11,966.0	8,964.7	38.4	32.9	-91.13	-2,843.9	-781.2	484.9	415.1	69.87	6.940

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
12,065.0	8,955.1	12,031.0	8,964.8	38.7	33.3	-91.13	-91.13	-2,908.9	-781.7	484.9	414.4	70.55	6.874
12,100.0	8,955.1	12,066.0	8,964.8	38.9	33.4	-91.13	-91.13	-2,943.9	-782.0	484.9	414.0	70.91	6.839
12,160.0	8,955.2	12,126.0	8,964.8	39.2	33.8	-91.13	-91.13	-3,003.9	-782.5	484.9	413.4	71.54	6.779
12,200.0	8,955.2	12,166.0	8,964.9	39.3	34.0	-91.13	-91.13	-3,043.9	-782.8	484.9	413.0	71.96	6.739
12,255.0	8,955.3	12,221.0	8,964.9	39.6	34.3	-91.13	-91.13	-3,098.9	-783.3	484.9	412.4	72.55	6.684
12,300.0	8,955.3	12,266.0	8,964.9	39.8	34.5	-91.12	-91.12	-3,143.9	-783.7	484.9	411.9	73.03	6.640
12,350.0	8,955.3	12,316.0	8,965.0	40.1	34.8	-91.12	-91.12	-3,193.9	-784.1	484.9	411.4	73.57	6.591
12,400.0	8,955.4	12,366.0	8,965.0	40.3	35.1	-91.12	-91.12	-3,243.9	-784.5	484.9	410.8	74.11	6.543
12,445.0	8,955.4	12,411.0	8,965.0	40.5	35.4	-91.12	-91.12	-3,288.9	-784.9	484.9	410.3	74.61	6.500
12,500.0	8,955.5	12,466.0	8,965.1	40.8	35.7	-91.12	-91.12	-3,343.9	-785.3	484.9	409.7	75.21	6.447
12,540.0	8,955.5	12,506.0	8,965.1	41.0	35.9	-91.12	-91.12	-3,383.8	-785.7	484.9	409.3	75.66	6.409
12,600.0	8,955.6	12,566.0	8,965.1	41.3	36.2	-91.12	-91.12	-3,443.8	-786.2	484.9	408.6	76.33	6.353
12,635.0	8,955.6	12,601.0	8,965.2	41.5	36.4	-91.12	-91.12	-3,478.8	-786.4	484.9	408.2	76.72	6.321
12,700.0	8,955.6	12,666.0	8,965.2	41.8	36.8	-91.12	-91.12	-3,543.8	-787.0	484.9	407.5	77.46	6.261
12,730.0	8,955.7	12,696.0	8,965.2	42.0	37.0	-91.12	-91.12	-3,573.8	-787.2	484.9	407.1	77.80	6.233
12,800.0	8,955.7	12,766.0	8,965.3	42.4	37.4	-91.12	-91.12	-3,643.8	-787.8	484.9	406.3	78.60	6.170
12,825.0	8,955.7	12,791.0	8,965.3	42.5	37.6	-91.12	-91.12	-3,668.8	-788.0	484.9	406.0	78.89	6.147
12,900.0	8,955.8	12,866.0	8,965.3	42.9	38.0	-91.12	-91.12	-3,743.8	-788.6	484.9	405.2	79.76	6.080
12,920.0	8,955.8	12,886.0	8,965.3	43.0	38.1	-91.11	-91.11	-3,763.8	-788.8	484.9	404.9	79.99	6.063
13,000.0	8,955.9	12,966.0	8,965.4	43.4	38.6	-91.11	-91.11	-3,843.8	-789.5	484.9	404.0	80.92	5.993
13,015.0	8,955.9	12,981.0	8,965.4	43.5	38.7	-91.11	-91.11	-3,858.8	-789.6	484.9	403.8	81.10	5.980
13,100.0	8,956.0	13,066.0	8,965.5	44.0	39.2	-91.11	-91.11	-3,943.8	-790.3	484.9	402.8	82.10	5.907
13,110.0	8,956.0	13,076.0	8,965.5	44.0	39.3	-91.11	-91.11	-3,953.8	-790.4	484.9	402.7	82.22	5.898
13,200.0	8,956.0	13,166.0	8,965.5	44.5	39.8	-91.11	-91.11	-4,043.8	-791.1	484.9	401.6	83.29	5.822
13,205.0	8,956.0	13,171.0	8,965.5	44.6	39.9	-91.11	-91.11	-4,048.8	-791.2	484.9	401.6	83.35	5.818
13,300.0	8,956.1	13,266.0	8,965.6	45.1	40.4	-91.11	-91.11	-4,143.8	-791.9	484.9	400.4	84.49	5.739
13,395.0	8,956.2	13,361.0	8,965.7	45.6	41.0	-91.11	-91.11	-4,238.8	-792.7	484.9	399.3	85.64	5.662
13,400.0	8,956.2	13,366.0	8,965.7	45.7	41.1	-91.11	-91.11	-4,243.8	-792.8	484.9	399.2	85.70	5.658
13,490.0	8,956.3	13,456.0	8,965.7	46.2	41.6	-91.11	-91.11	-4,333.8	-793.5	484.9	398.1	86.80	5.587
13,500.0	8,956.3	13,466.0	8,965.7	46.2	41.7	-91.11	-91.11	-4,343.8	-793.6	484.9	398.0	86.92	5.579
13,585.0	8,956.3	13,551.0	8,965.8	46.7	42.2	-91.10	-91.10	-4,428.8	-794.3	484.9	397.0	87.97	5.513
13,600.0	8,956.4	13,566.0	8,965.8	46.8	42.3	-91.10	-91.10	-4,443.8	-794.4	484.9	396.8	88.15	5.501
13,680.0	8,956.4	13,646.0	8,965.9	47.3	42.8	-91.10	-91.10	-4,523.8	-795.1	484.9	395.8	89.15	5.440
13,700.0	8,956.4	13,666.0	8,965.9	47.4	43.0	-91.10	-91.10	-4,543.8	-795.3	484.9	395.5	89.39	5.425
13,775.0	8,956.5	13,741.0	8,965.9	47.8	43.5	-91.10	-91.10	-4,618.8	-795.9	484.9	394.6	90.33	5.369
13,800.0	8,956.5	13,766.0	8,965.9	48.0	43.6	-91.10	-91.10	-4,643.8	-796.1	484.9	394.3	90.64	5.350
13,870.0	8,956.6	13,836.0	8,966.0	48.4	44.1	-91.10	-91.10	-4,713.8	-796.7	484.9	393.4	91.52	5.299
13,900.0	8,956.6	13,866.0	8,966.0	48.5	44.3	-91.10	-91.10	-4,743.8	-796.9	484.9	393.0	91.90	5.277
13,965.0	8,956.6	13,931.0	8,966.0	48.9	44.7	-91.10	-91.10	-4,808.8	-797.4	484.9	392.2	92.72	5.230
14,000.0	8,956.7	13,966.0	8,966.1	49.1	44.9	-91.10	-91.10	-4,843.8	-797.7	484.9	391.8	93.16	5.205
14,060.0	8,956.7	14,026.0	8,966.1	49.5	45.3	-91.10	-91.10	-4,903.8	-798.2	484.9	391.0	93.93	5.163
14,100.0	8,956.8	14,066.0	8,966.1	49.7	45.6	-91.10	-91.10	-4,943.8	-798.6	484.9	390.5	94.44	5.135
14,155.0	8,956.8	14,121.0	8,966.2	50.1	45.9	-91.10	-91.10	-4,998.8	-799.0	484.9	389.8	95.14	5.097
14,200.0	8,956.8	14,166.0	8,966.2	50.3	46.2	-91.09	-91.09	-5,043.8	-799.4	484.9	389.2	95.72	5.066
14,250.0	8,956.9	14,216.0	8,966.2	50.6	46.5	-91.09	-91.09	-5,093.8	-799.8	484.9	388.6	96.36	5.033
14,300.0	8,956.9	14,266.0	8,966.3	50.9	46.9	-91.09	-91.09	-5,143.8	-800.2	484.9	387.9	97.00	4.999
14,345.0	8,957.0	14,311.0	8,966.3	51.2	47.2	-91.09	-91.09	-5,188.8	-800.6	484.9	387.4	97.58	4.969
14,400.0	8,957.0	14,366.0	8,966.3	51.6	47.5	-91.09	-91.09	-5,243.8	-801.0	484.9	386.6	98.30	4.933
14,440.0	8,957.0	14,406.0	8,966.4	51.8	47.8	-91.09	-91.09	-5,283.8	-801.4	484.9	386.1	98.82	4.908
14,500.0	8,957.1	14,466.0	8,966.4	52.2	48.2	-91.09	-91.09	-5,343.8	-801.9	484.9	385.3	99.60	4.869
14,535.0	8,957.1	14,501.0	8,966.4	52.4	48.4	-91.09	-91.09	-5,378.8	-802.2	484.9	384.9	100.05	4.847

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,600.0	8,957.2	14,566.0	8,966.5	52.8	48.9	-91.09	-5,443.8	-802.7	484.9	384.0	100.90	4.806		
14,630.0	8,957.2	14,596.0	8,966.5	53.0	49.1	-91.09	-5,473.8	-802.9	484.9	383.6	101.30	4.787		
14,700.0	8,957.2	14,666.0	8,966.5	53.4	49.6	-91.09	-5,543.8	-803.5	484.9	382.7	102.22	4.744		
14,725.0	8,957.3	14,691.0	8,966.6	53.6	49.7	-91.09	-5,568.8	-803.7	484.9	382.4	102.55	4.729		
14,800.0	8,957.3	14,766.0	8,966.6	54.0	50.2	-91.08	-5,643.8	-804.3	484.9	381.4	103.53	4.684		
14,820.0	8,957.3	14,786.0	8,966.6	54.2	50.4	-91.08	-5,663.8	-804.5	484.9	381.1	103.80	4.672		
14,900.0	8,957.4	14,866.0	8,966.7	54.7	50.9	-91.08	-5,743.8	-805.2	484.9	380.1	104.86	4.625		
14,915.0	8,957.4	14,881.0	8,966.7	54.8	51.0	-91.08	-5,758.8	-805.3	484.9	379.9	105.06	4.616		
15,000.0	8,957.5	14,966.0	8,966.7	55.3	51.6	-91.08	-5,843.8	-806.0	484.9	378.8	106.19	4.567		
15,010.0	8,957.5	14,976.0	8,966.7	55.4	51.7	-91.08	-5,853.8	-806.1	484.9	378.6	106.32	4.561		
15,100.0	8,957.6	15,066.0	8,966.8	56.0	52.3	-91.08	-5,943.8	-806.8	484.9	377.4	107.52	4.510		
15,105.0	8,957.6	15,071.0	8,966.8	56.0	52.3	-91.08	-5,948.8	-806.9	484.9	377.4	107.59	4.507		
15,200.0	8,957.6	15,166.0	8,966.9	56.6	53.0	-91.08	-6,043.8	-807.7	484.9	376.1	108.86	4.455		
15,295.0	8,957.7	15,261.0	8,966.9	57.2	53.6	-91.08	-6,138.8	-808.4	484.9	374.8	110.14	4.403		
15,300.0	8,957.7	15,266.0	8,966.9	57.2	53.6	-91.08	-6,143.8	-808.5	484.9	374.7	110.21	4.400		
15,390.0	8,957.8	15,356.0	8,967.0	57.8	54.3	-91.08	-6,233.8	-809.2	484.9	373.5	111.42	4.352		
15,400.0	8,957.8	15,366.0	8,967.0	57.9	54.3	-91.08	-6,243.8	-809.3	484.9	373.4	111.56	4.347		
15,485.0	8,957.9	15,451.0	8,967.1	58.4	54.9	-91.07	-6,328.7	-810.0	484.9	372.2	112.71	4.303		
15,500.0	8,957.9	15,466.0	8,967.1	58.5	55.0	-91.07	-6,343.7	-810.1	484.9	372.0	112.91	4.295		
15,580.0	8,957.9	15,546.0	8,967.1	59.1	55.6	-91.07	-6,423.7	-810.8	484.9	370.9	114.00	4.254		
15,600.0	8,958.0	15,566.0	8,967.1	59.2	55.7	-91.07	-6,443.7	-811.0	484.9	370.7	114.27	4.244		
15,675.0	8,958.0	15,641.0	8,967.2	59.7	56.2	-91.07	-6,518.7	-811.6	484.9	369.7	115.29	4.206		
15,700.0	8,958.0	15,666.0	8,967.2	59.8	56.4	-91.07	-6,543.7	-811.8	484.9	369.3	115.63	4.194		
15,770.0	8,958.1	15,736.0	8,967.3	60.3	56.9	-91.07	-6,613.7	-812.4	484.9	368.4	116.59	4.159		
15,800.0	8,958.1	15,766.0	8,967.3	60.5	57.1	-91.07	-6,643.7	-812.6	484.9	367.9	117.00	4.145		
15,865.0	8,958.2	15,831.0	8,967.3	60.9	57.6	-91.07	-6,708.7	-813.2	484.9	367.1	117.89	4.114		
15,900.0	8,958.2	15,866.0	8,967.3	61.2	57.8	-91.07	-6,743.7	-813.4	484.9	366.6	118.37	4.097		
15,960.0	8,958.3	15,926.0	8,967.4	61.6	58.2	-91.07	-6,803.7	-813.9	484.9	365.8	119.19	4.069		
16,000.0	8,958.3	15,966.0	8,967.4	61.8	58.5	-91.07	-6,843.7	-814.3	484.9	365.2	119.74	4.050		
16,055.0	8,958.3	16,021.0	8,967.4	62.2	58.9	-91.06	-6,898.7	-814.7	484.9	364.4	120.50	4.024		
16,100.0	8,958.4	16,066.0	8,967.5	62.5	59.2	-91.06	-6,943.7	-815.1	484.9	363.8	121.12	4.004		
16,150.0	8,958.4	16,116.0	8,967.5	62.8	59.6	-91.06	-6,993.7	-815.5	484.9	363.1	121.81	3.981		
16,200.0	8,958.4	16,166.0	8,967.5	63.1	59.9	-91.06	-7,043.7	-815.9	484.9	362.4	122.50	3.959		
16,245.0	8,958.5	16,211.0	8,967.6	63.5	60.2	-91.06	-7,088.7	-816.3	485.0	361.8	123.13	3.939		
16,300.0	8,958.5	16,266.0	8,967.6	63.8	60.6	-91.06	-7,143.7	-816.7	485.0	361.1	123.89	3.914		
16,340.0	8,958.6	16,306.0	8,967.6	64.1	60.9	-91.06	-7,183.7	-817.1	485.0	360.5	124.44	3.897		
16,400.0	8,958.6	16,366.0	8,967.7	64.5	61.3	-91.06	-7,243.7	-817.6	485.0	359.7	125.28	3.871		
16,435.0	8,958.6	16,401.0	8,967.7	64.7	61.6	-91.06	-7,278.7	-817.9	485.0	359.2	125.76	3.856		
16,500.0	8,958.7	16,466.0	8,967.7	65.2	62.0	-91.06	-7,343.7	-818.4	485.0	358.3	126.67	3.829		
16,530.0	8,958.7	16,496.0	8,967.8	65.4	62.3	-91.06	-7,373.7	-818.7	485.0	357.9	127.09	3.816		
16,600.0	8,958.8	16,566.0	8,967.8	65.8	62.7	-91.06	-7,443.7	-819.2	485.0	356.9	128.06	3.787		
16,625.0	8,958.8	16,591.0	8,967.8	66.0	62.9	-91.06	-7,468.7	-819.4	485.0	356.5	128.41	3.777		
16,700.0	8,958.8	16,666.0	8,967.9	66.5	63.5	-91.05	-7,543.7	-820.1	485.0	355.5	129.46	3.746		
16,720.0	8,958.9	16,686.0	8,967.9	66.7	63.6	-91.05	-7,563.7	-820.2	485.0	355.2	129.74	3.738		
16,800.0	8,958.9	16,766.0	8,967.9	67.2	64.2	-91.05	-7,643.7	-820.9	485.0	354.1	130.86	3.706		
16,815.0	8,958.9	16,781.0	8,968.0	67.3	64.3	-91.05	-7,658.7	-821.0	485.0	353.9	131.07	3.700		
16,900.0	8,959.0	16,866.0	8,968.0	67.9	64.9	-91.05	-7,743.7	-821.7	485.0	352.7	132.26	3.667		
16,910.0	8,959.0	16,876.0	8,968.0	67.9	65.0	-91.05	-7,753.7	-821.8	485.0	352.5	132.40	3.663		
17,000.0	8,959.1	16,966.0	8,968.1	68.6	65.6	-91.05	-7,843.7	-822.5	485.0	351.3	133.67	3.628		
17,005.0	8,959.1	16,971.0	8,968.1	68.6	65.6	-91.05	-7,848.7	-822.6	485.0	351.2	133.74	3.626		
17,100.0	8,959.2	17,066.0	8,968.1	69.2	66.3	-91.05	-7,943.7	-823.4	485.0	349.9	135.08	3.590		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
17,195.0	8,959.2	17,161.0	8,968.2	69.9	67.0	-91.05	-91.05	-8,038.7	-824.1	485.0	348.5	136.42	3.555
17,200.0	8,959.3	17,166.0	8,968.2	69.9	67.0	-91.05	-91.05	-8,043.7	-824.2	485.0	348.5	136.49	3.553
17,290.0	8,959.3	17,256.0	8,968.3	70.6	67.7	-91.05	-91.05	-8,133.7	-824.9	485.0	347.2	137.76	3.520
17,300.0	8,959.3	17,266.0	8,968.3	70.6	67.8	-91.04	-91.04	-8,143.7	-825.0	485.0	347.1	137.90	3.517
17,385.0	8,959.4	17,351.0	8,968.3	71.2	68.4	-91.04	-91.04	-8,228.7	-825.7	485.0	345.8	139.11	3.486
17,400.0	8,959.4	17,366.0	8,968.3	71.3	68.5	-91.04	-91.04	-8,243.7	-825.8	485.0	345.6	139.32	3.481
17,480.0	8,959.5	17,446.0	8,968.4	71.9	69.0	-91.04	-91.04	-8,323.7	-826.5	485.0	344.5	140.45	3.453
17,500.0	8,959.5	17,466.0	8,968.4	72.0	69.2	-91.04	-91.04	-8,343.7	-826.7	485.0	344.2	140.74	3.446
17,575.0	8,959.6	17,541.0	8,968.5	72.5	69.7	-91.04	-91.04	-8,418.7	-827.3	485.0	343.2	141.80	3.420
17,600.0	8,959.6	17,566.0	8,968.5	72.7	69.9	-91.04	-91.04	-8,443.7	-827.5	485.0	342.8	142.16	3.411
17,670.0	8,959.6	17,636.0	8,968.5	73.2	70.4	-91.04	-91.04	-8,513.7	-828.1	485.0	341.8	143.15	3.388
17,700.0	8,959.7	17,666.0	8,968.5	73.4	70.6	-91.04	-91.04	-8,543.7	-828.3	485.0	341.4	143.58	3.378
17,765.0	8,959.7	17,731.0	8,968.6	73.8	71.1	-91.04	-91.04	-8,608.7	-828.9	485.0	340.5	144.51	3.356
17,800.0	8,959.7	17,766.0	8,968.6	74.1	71.4	-91.04	-91.04	-8,643.7	-829.2	485.0	340.0	145.01	3.344
17,860.0	8,959.8	17,826.0	8,968.7	74.5	71.8	-91.04	-91.04	-8,703.7	-829.6	485.0	339.1	145.86	3.325
17,900.0	8,959.8	17,866.0	8,968.7	74.8	72.1	-91.04	-91.04	-8,743.7	-830.0	485.0	338.5	146.43	3.312
17,955.0	8,959.9	17,921.0	8,968.7	75.2	72.5	-91.03	-91.03	-8,798.7	-830.4	485.0	337.7	147.22	3.294
18,000.0	8,959.9	17,966.0	8,968.7	75.5	72.8	-91.03	-91.03	-8,843.7	-830.8	485.0	337.1	147.86	3.280
18,050.0	8,959.9	18,016.0	8,968.8	75.8	73.2	-91.03	-91.03	-8,893.7	-831.2	485.0	336.4	148.58	3.264
18,100.0	8,960.0	18,066.0	8,968.8	76.2	73.5	-91.03	-91.03	-8,943.7	-831.6	485.0	335.7	149.29	3.248
18,145.0	8,960.0	18,111.0	8,968.8	76.5	73.9	-91.03	-91.03	-8,988.7	-832.0	485.0	335.0	149.94	3.234
18,200.0	8,960.1	18,166.0	8,968.9	76.9	74.3	-91.03	-91.03	-9,043.7	-832.5	485.0	334.2	150.73	3.218
18,240.0	8,960.1	18,206.0	8,968.9	77.2	74.5	-91.03	-91.03	-9,083.7	-832.8	485.0	333.7	151.30	3.205
18,300.0	8,960.1	18,266.0	8,968.9	77.6	75.0	-91.03	-91.03	-9,143.7	-833.3	485.0	332.8	152.16	3.187
18,335.0	8,960.2	18,301.0	8,969.0	77.8	75.2	-91.03	-91.03	-9,178.6	-833.6	485.0	332.3	152.66	3.177
18,400.0	8,960.2	18,366.0	8,969.0	78.3	75.7	-91.03	-91.03	-9,243.6	-834.1	485.0	331.4	153.60	3.157
18,430.0	8,960.2	18,396.0	8,969.0	78.5	75.9	-91.03	-91.03	-9,273.6	-834.4	485.0	330.9	154.03	3.149
18,500.0	8,960.3	18,466.0	8,969.1	79.0	76.4	-91.03	-91.03	-9,343.6	-834.9	485.0	329.9	155.03	3.128
18,525.0	8,960.3	18,491.0	8,969.1	79.2	76.6	-91.03	-91.03	-9,368.6	-835.1	485.0	329.6	155.39	3.121
18,600.0	8,960.4	18,566.0	8,969.1	79.7	77.2	-91.02	-91.02	-9,443.6	-835.8	485.0	328.5	156.47	3.099
18,620.0	8,960.4	18,586.0	8,969.2	79.8	77.3	-91.02	-91.02	-9,463.6	-835.9	485.0	328.2	156.76	3.094
18,700.0	8,960.5	18,666.0	8,969.2	80.4	77.9	-91.02	-91.02	-9,543.6	-836.6	485.0	327.0	157.92	3.071
18,715.0	8,960.5	18,681.0	8,969.2	80.5	78.0	-91.02	-91.02	-9,558.6	-836.7	485.0	326.8	158.13	3.067
18,800.0	8,960.5	18,766.0	8,969.3	81.1	78.6	-91.02	-91.02	-9,643.6	-837.4	485.0	325.6	159.36	3.043
18,810.0	8,960.5	18,776.0	8,969.3	81.2	78.7	-91.02	-91.02	-9,653.6	-837.5	485.0	325.5	159.50	3.040
18,900.0	8,960.6	18,866.0	8,969.3	81.8	79.4	-91.02	-91.02	-9,743.6	-838.2	485.0	324.2	160.80	3.016
18,905.0	8,960.6	18,871.0	8,969.4	81.8	79.4	-91.02	-91.02	-9,748.6	-838.3	485.0	324.1	160.88	3.015
19,000.0	8,960.7	18,966.0	8,969.4	82.5	80.1	-91.02	-91.02	-9,843.6	-839.1	485.0	322.7	162.25	2.989
19,095.0	8,960.8	19,061.0	8,969.5	83.2	80.8	-91.02	-91.02	-9,938.6	-839.9	485.0	321.3	163.63	2.964
19,100.0	8,960.8	19,066.0	8,969.5	83.2	80.8	-91.02	-91.02	-9,943.6	-839.9	485.0	321.3	163.70	2.963
19,190.0	8,960.9	19,156.0	8,969.5	83.9	81.5	-91.01	-91.01	-10,033.6	-840.6	485.0	320.0	165.00	2.939
19,200.0	8,960.9	19,166.0	8,969.5	83.9	81.6	-91.01	-91.01	-10,043.6	-840.7	485.0	319.8	165.15	2.937
19,285.0	8,960.9	19,251.0	8,969.6	84.6	82.2	-91.01	-91.01	-10,128.6	-841.4	485.0	318.6	166.38	2.915
19,300.0	8,960.9	19,266.0	8,969.6	84.7	82.3	-91.01	-91.01	-10,143.6	-841.6	485.0	318.4	166.60	2.911
19,380.0	8,961.0	19,346.0	8,969.7	85.2	82.9	-91.01	-91.01	-10,223.6	-842.2	485.0	317.2	167.76	2.891
19,400.0	8,961.0	19,366.0	8,969.7	85.4	83.0	-91.01	-91.01	-10,243.6	-842.4	485.0	316.9	168.05	2.886
19,475.0	8,961.1	19,441.0	8,969.7	85.9	83.6	-91.01	-91.01	-10,318.6	-843.0	485.0	315.8	169.14	2.867
19,500.0	8,961.1	19,466.0	8,969.7	86.1	83.8	-91.01	-91.01	-10,343.6	-843.2	485.0	315.5	169.50	2.861
19,570.0	8,961.2	19,536.0	8,969.8	86.6	84.3	-91.01	-91.01	-10,413.6	-843.8	485.0	314.4	170.52	2.844
19,600.0	8,961.2	19,566.0	8,969.8	86.8	84.5	-91.01	-91.01	-10,443.6	-844.0	485.0	314.0	170.96	2.837
19,665.0	8,961.2	19,631.0	8,969.9	87.3	85.0	-91.01	-91.01	-10,508.6	-844.6	485.0	313.1	171.90	2.821

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning		
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
19,700.0	8,961.3	19,666.0	8,969.9	87.5	85.2	-91.01	-10,543.6	-844.9	485.0	312.6	172.41	2.813	
19,760.0	8,961.3	19,726.0	8,969.9	87.9	85.7	-91.01	-10,603.6	-845.4	485.0	311.7	173.29	2.799	
19,800.0	8,961.3	19,766.0	8,969.9	88.2	86.0	-91.00	-10,643.6	-845.7	485.0	311.1	173.87	2.789	
19,855.0	8,961.4	19,821.0	8,970.0	88.6	86.4	-91.00	-10,698.6	-846.1	485.0	310.3	174.67	2.776	
19,900.0	8,961.4	19,866.0	8,970.0	88.9	86.7	-91.00	-10,743.6	-846.5	485.0	309.6	175.33	2.766	
19,950.0	8,961.5	19,916.0	8,970.0	89.3	87.1	-91.00	-10,793.6	-846.9	485.0	308.9	176.06	2.755	
20,000.0	8,961.5	19,966.0	8,970.1	89.7	87.4	-91.00	-10,843.6	-847.3	485.0	308.2	176.79	2.743	
20,045.0	8,961.5	20,011.0	8,970.1	90.0	87.8	-91.00	-10,888.6	-847.7	485.0	307.5	177.45	2.733	
20,100.0	8,961.6	20,066.0	8,970.2	90.4	88.2	-91.00	-10,943.6	-848.2	485.0	306.7	178.25	2.721	
20,140.0	8,961.6	20,106.0	8,970.2	90.7	88.5	-91.00	-10,983.6	-848.5	485.0	306.1	178.83	2.712	
20,200.0	8,961.7	20,166.0	8,970.2	91.1	88.9	-91.00	-11,043.6	-849.0	485.0	305.3	179.71	2.699	
20,235.0	8,961.7	20,201.0	8,970.2	91.4	89.2	-91.00	-11,078.6	-849.3	485.0	304.7	180.22	2.691	
20,300.0	8,961.7	20,266.0	8,970.3	91.8	89.7	-91.00	-11,143.6	-849.8	485.0	303.8	181.17	2.677	
20,330.0	8,961.8	20,296.0	8,970.3	92.0	89.9	-91.00	-11,173.6	-850.1	485.0	303.4	181.61	2.670	
20,400.0	8,961.8	20,366.0	8,970.4	92.5	90.4	-91.00	-11,243.6	-850.7	485.0	302.3	182.64	2.655	
20,425.0	8,961.8	20,391.0	8,970.4	92.7	90.6	-91.00	-11,268.6	-850.9	485.0	302.0	183.00	2.650	
20,500.0	8,961.9	20,466.0	8,970.4	93.3	91.1	-90.99	-11,343.6	-851.5	485.0	300.9	184.10	2.634	
20,520.0	8,961.9	20,486.0	8,970.4	93.4	91.3	-90.99	-11,363.6	-851.6	485.0	300.6	184.40	2.630	
20,600.0	8,962.0	20,566.0	8,970.5	94.0	91.9	-90.99	-11,443.6	-852.3	485.0	299.4	185.57	2.613	
20,615.0	8,962.0	20,581.0	8,970.5	94.1	92.0	-90.99	-11,458.6	-852.4	485.0	299.2	185.79	2.610	
20,700.0	8,962.1	20,666.0	8,970.6	94.7	92.6	-90.99	-11,543.6	-853.1	485.0	297.9	187.04	2.593	
20,710.0	8,962.1	20,676.0	8,970.6	94.8	92.7	-90.99	-11,553.6	-853.2	485.0	297.8	187.18	2.591	
20,800.0	8,962.1	20,766.0	8,970.6	95.4	93.4	-90.99	-11,643.6	-854.0	485.0	296.5	188.50	2.573	
20,805.0	8,962.2	20,771.0	8,970.6	95.5	93.4	-90.99	-11,648.6	-854.0	485.0	296.4	188.58	2.572	
20,900.0	8,962.2	20,866.0	8,970.7	96.2	94.1	-90.99	-11,743.6	-854.8	485.0	295.0	189.97	2.553	
20,995.0	8,962.3	20,961.0	8,970.7	96.9	94.8	-90.99	-11,838.6	-855.6	485.0	293.6	191.37	2.534	
21,000.0	8,962.3	20,966.0	8,970.8	96.9	94.8	-90.99	-11,843.6	-855.6	485.0	293.5	191.44	2.533	
21,090.0	8,962.4	21,056.0	8,970.8	97.5	95.5	-90.98	-11,933.6	-856.4	485.0	292.2	192.77	2.516	
21,100.0	8,962.4	21,066.0	8,970.8	97.6	95.6	-90.98	-11,943.6	-856.4	485.0	292.1	192.91	2.514	
21,185.0	8,962.5	21,151.0	8,970.9	98.2	96.2	-90.98	-12,028.6	-857.1	485.0	290.8	194.16	2.498	
21,200.0	8,962.5	21,166.0	8,970.9	98.3	96.3	-90.98	-12,043.6	-857.3	485.0	290.6	194.38	2.495	
21,280.0	8,962.5	21,246.0	8,970.9	98.9	96.9	-90.98	-12,123.5	-857.9	485.0	289.4	195.56	2.480	
21,300.0	8,962.5	21,266.0	8,971.0	99.1	97.1	-90.98	-12,143.5	-858.1	485.0	289.1	195.86	2.476	
21,375.0	8,962.6	21,341.0	8,971.0	99.6	97.6	-90.98	-12,218.5	-858.7	485.0	288.0	196.96	2.462	
21,400.0	8,962.6	21,366.0	8,971.0	99.8	97.8	-90.98	-12,243.5	-858.9	485.0	287.6	197.33	2.458	
21,470.0	8,962.7	21,436.0	8,971.1	100.3	98.3	-90.98	-12,313.5	-859.5	485.0	286.6	198.36	2.445	
21,500.0	8,962.7	21,466.0	8,971.1	100.5	98.6	-90.98	-12,343.5	-859.7	485.0	286.2	198.80	2.439	
21,565.0	8,962.8	21,531.0	8,971.1	101.0	99.0	-90.98	-12,408.5	-860.3	485.0	285.2	199.76	2.428	
21,600.0	8,962.8	21,566.0	8,971.2	101.3	99.3	-90.98	-12,443.5	-860.6	485.0	284.7	200.28	2.422	
21,660.0	8,962.8	21,626.0	8,971.2	101.7	99.7	-90.98	-12,503.5	-861.1	485.0	283.8	201.16	2.411	
21,700.0	8,962.9	21,666.0	8,971.2	102.0	100.0	-90.97	-12,543.5	-861.4	485.0	283.2	201.75	2.404	
21,755.0	8,962.9	21,721.0	8,971.3	102.4	100.4	-90.97	-12,598.5	-861.9	485.0	282.4	202.57	2.394	
21,800.0	8,963.0	21,766.0	8,971.3	102.7	100.8	-90.97	-12,643.5	-862.2	485.0	281.7	203.23	2.386	
21,850.0	8,963.0	21,816.0	8,971.3	103.1	101.2	-90.97	-12,693.5	-862.6	485.0	281.0	203.97	2.378	
21,900.0	8,963.0	21,866.0	8,971.4	103.4	101.5	-90.97	-12,743.5	-863.1	485.0	280.3	204.71	2.369	
21,945.0	8,963.1	21,911.0	8,971.4	103.8	101.9	-90.97	-12,788.5	-863.4	485.0	279.6	205.37	2.361	
22,000.0	8,963.1	21,966.0	8,971.4	104.2	102.3	-90.97	-12,843.5	-863.9	485.0	278.8	206.19	2.352	
22,040.0	8,963.1	22,006.0	8,971.4	104.5	102.6	-90.97	-12,883.5	-864.2	485.0	278.2	206.78	2.345	
22,100.0	8,963.2	22,066.0	8,971.5	104.9	103.0	-90.97	-12,943.5	-864.7	485.0	277.3	207.67	2.335	
22,135.0	8,963.2	22,101.0	8,971.5	105.2	103.3	-90.97	-12,978.5	-865.0	485.0	276.8	208.18	2.330	
22,200.0	8,963.3	22,166.0	8,971.6	105.6	103.8	-90.97	-13,043.5	-865.5	485.0	275.8	209.14	2.319	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Between	Between	Minimum	Separation	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor	
22,230.0	8,963.3	22,196.0	8,971.6	105.9	104.0	-90.97	-13,073.5	-865.8	485.0	275.4	209.59	2.314	
22,300.0	8,963.4	22,266.0	8,971.6	106.4	104.5	-90.97	-13,143.5	-866.4	485.0	274.4	210.62	2.303	
22,325.0	8,963.4	22,291.0	8,971.6	106.6	104.7	-90.96	-13,168.5	-866.6	485.0	274.0	210.99	2.299	
22,400.0	8,963.4	22,366.0	8,971.7	107.1	105.3	-90.96	-13,243.5	-867.2	485.0	272.9	212.11	2.287	
22,420.0	8,963.5	22,386.0	8,971.7	107.2	105.4	-90.96	-13,263.5	-867.4	485.0	272.6	212.40	2.283	
22,500.0	8,963.5	22,466.0	8,971.8	107.8	106.0	-90.96	-13,343.5	-868.0	485.0	271.4	213.59	2.271	
22,515.0	8,963.5	22,481.0	8,971.8	107.9	106.1	-90.96	-13,358.5	-868.1	485.0	271.2	213.81	2.268	
22,600.0	8,963.6	22,566.0	8,971.8	108.6	106.7	-90.96	-13,443.5	-868.8	485.0	269.9	215.07	2.255	
22,610.0	8,963.6	22,576.0	8,971.8	108.6	106.8	-90.96	-13,453.5	-868.9	485.0	269.8	215.22	2.253	
22,700.0	8,963.7	22,666.0	8,971.9	109.3	107.5	-90.96	-13,543.5	-869.7	485.0	268.4	216.55	2.240	
22,705.0	8,963.7	22,671.0	8,971.9	109.3	107.5	-90.96	-13,548.5	-869.7	485.0	268.4	216.63	2.239	
22,800.0	8,963.8	22,766.0	8,972.0	110.0	108.2	-90.96	-13,643.5	-870.5	485.0	266.9	218.04	2.224	
22,895.0	8,963.8	22,861.0	8,972.0	110.7	108.9	-90.96	-13,738.5	-871.3	485.0	265.5	219.44	2.210	
22,900.0	8,963.8	22,866.0	8,972.0	110.8	109.0	-90.96	-13,743.5	-871.3	485.0	265.5	219.52	2.209	
22,990.0	8,963.9	22,956.0	8,972.1	111.4	109.7	-90.95	-13,833.5	-872.1	485.0	264.1	220.86	2.196	
23,000.0	8,963.9	22,966.0	8,972.1	111.5	109.7	-90.95	-13,843.5	-872.1	485.0	264.0	221.00	2.194	
23,085.0	8,964.0	23,051.0	8,972.1	112.1	110.4	-90.95	-13,928.5	-872.9	485.0	262.7	222.27	2.182	
23,100.0	8,964.0	23,066.0	8,972.2	112.2	110.5	-90.95	-13,943.5	-873.0	485.0	262.5	222.49	2.180	
23,180.0	8,964.1	23,146.0	8,972.2	112.8	111.1	-90.95	-14,023.5	-873.6	485.0	261.3	223.68	2.168	
23,200.0	8,964.1	23,166.0	8,972.2	113.0	111.2	-90.95	-14,043.5	-873.8	485.0	261.0	223.97	2.165	
23,275.0	8,964.1	23,241.0	8,972.3	113.5	111.8	-90.95	-14,118.5	-874.4	485.0	259.9	225.09	2.155	
23,300.0	8,964.2	23,266.0	8,972.3	113.7	112.0	-90.95	-14,143.5	-874.6	485.0	259.5	225.46	2.151	
23,370.0	8,964.2	23,336.0	8,972.3	114.2	112.5	-90.95	-14,213.5	-875.2	485.0	258.5	226.50	2.141	
23,400.0	8,964.2	23,366.0	8,972.4	114.4	112.7	-90.95	-14,243.5	-875.5	485.0	258.0	226.95	2.137	
23,465.0	8,964.3	23,431.0	8,972.4	114.9	113.2	-90.95	-14,308.5	-876.0	485.0	257.1	227.91	2.128	
23,500.0	8,964.3	23,466.0	8,972.4	115.2	113.5	-90.95	-14,343.5	-876.3	485.0	256.6	228.44	2.123	
23,560.0	8,964.4	23,526.0	8,972.5	115.6	113.9	-90.94	-14,403.5	-876.8	485.0	255.7	229.33	2.115	
23,600.0	8,964.4	23,566.0	8,972.5	115.9	114.2	-90.94	-14,443.5	-877.1	485.0	255.1	229.92	2.109	
23,655.0	8,964.4	23,621.0	8,972.5	116.3	114.6	-90.94	-14,498.5	-877.6	485.0	254.2	230.74	2.102	
23,700.0	8,964.5	23,666.0	8,972.6	116.7	115.0	-90.94	-14,543.5	-877.9	485.0	253.6	231.41	2.096	
23,750.0	8,964.5	23,716.0	8,972.6	117.0	115.3	-90.94	-14,593.5	-878.4	485.0	252.8	232.16	2.089	
23,800.0	8,964.6	23,766.0	8,972.6	117.4	115.7	-90.94	-14,643.5	-878.8	485.0	252.1	232.90	2.082	
23,845.0	8,964.6	23,811.0	8,972.7	117.7	116.1	-90.94	-14,688.5	-879.1	485.0	251.4	233.57	2.076	
23,900.0	8,964.6	23,866.0	8,972.7	118.1	116.5	-90.94	-14,743.5	-879.6	485.0	250.6	234.39	2.069	
23,940.0	8,964.7	23,906.0	8,972.7	118.4	116.8	-90.94	-14,783.5	-879.9	485.0	250.0	234.99	2.064	
24,000.0	8,964.7	23,966.0	8,972.8	118.9	117.2	-90.94	-14,843.5	-880.4	485.0	249.1	235.88	2.056	
24,035.0	8,964.8	24,001.0	8,972.8	119.1	117.5	-90.94	-14,878.5	-880.7	485.0	248.6	236.40	2.052	
24,100.0	8,964.8	24,066.0	8,972.8	119.6	118.0	-90.94	-14,943.5	-881.2	485.0	247.6	237.37	2.043	
24,130.0	8,964.8	24,096.0	8,972.8	119.8	118.2	-90.94	-14,973.4	-881.5	485.0	247.2	237.82	2.039	
24,200.0	8,964.9	24,166.0	8,972.9	120.4	118.7	-90.93	-15,043.4	-882.1	485.0	246.1	238.86	2.030	
24,214.6	8,964.9	24,180.5	8,972.9	120.5	118.8	-90.93	-15,058.0	-882.2	485.0	245.9	239.08	2.029	
24,225.0	8,964.9	24,191.0	8,972.9	120.5	118.9	-90.93	-15,068.4	-882.3	485.0	245.8	239.23	2.027	
24,300.0	8,965.0	24,266.0	8,973.0	121.1	119.5	-90.93	-15,143.4	-882.9	485.0	244.6	240.35	2.018	
24,320.0	8,965.0	24,286.0	8,973.0	121.2	119.6	-90.93	-15,163.4	-883.1	485.0	244.3	240.65	2.015	
24,344.7	8,965.0	24,310.6	8,973.0	121.4	119.8	-90.93	-15,188.1	-883.3	485.0	244.0	241.02	2.012	
24,345.4	8,965.0	24,311.3	8,973.0	121.4	119.8	-90.93	-15,188.8	-883.3	485.0	244.0	241.03	2.012 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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
4,370.0	4,298.6	4,671.1	4,590.7	15.6	17.0	-10.66	232.4	-1,867.1	1,305.4	1,275.2	30.25	43.155
4,400.0	4,327.7	4,698.1	4,616.9	15.7	17.1	-10.55	235.5	-1,861.4	1,292.5	1,262.0	30.49	42.395
4,465.0	4,390.8	4,756.4	4,673.5	16.0	17.4	-10.30	242.2	-1,849.0	1,264.3	1,233.3	31.00	40.787
4,500.0	4,424.7	4,787.9	4,704.0	16.2	17.5	-10.16	245.9	-1,842.3	1,249.2	1,217.9	31.27	39.944
4,560.0	4,482.9	4,841.8	4,756.3	16.5	17.8	-9.92	252.1	-1,830.8	1,223.2	1,191.5	31.74	38.545
4,600.0	4,521.8	4,871.4	4,785.1	16.6	17.9	-9.78	255.5	-1,824.6	1,206.0	1,174.0	32.05	37.634
4,655.0	4,575.1	4,900.0	4,812.9	16.9	18.0	-9.65	258.7	-1,818.8	1,182.8	1,150.3	32.48	36.415
4,700.0	4,618.8	4,938.5	4,850.5	17.1	18.2	-9.48	262.7	-1,811.3	1,164.2	1,131.4	32.84	35.448
4,750.0	4,667.3	4,972.6	4,883.8	17.3	18.4	-9.35	266.1	-1,805.1	1,144.0	1,110.7	33.25	34.408
4,800.0	4,715.8	5,000.0	4,910.7	17.6	18.5	-9.24	268.6	-1,800.4	1,124.3	1,090.6	33.65	33.407
4,845.0	4,759.5	5,038.3	4,948.3	17.8	18.7	-9.11	272.0	-1,794.1	1,106.9	1,072.9	34.01	32.543
4,900.0	4,812.8	5,076.8	4,986.3	18.0	18.9	-8.98	275.2	-1,788.3	1,086.2	1,051.7	34.45	31.526
4,940.0	4,851.7	5,100.0	5,009.2	18.2	19.0	-8.91	277.0	-1,785.0	1,071.5	1,036.7	34.77	30.813
5,000.0	4,909.9	5,147.9	5,056.5	18.5	19.2	-8.78	280.4	-1,778.7	1,050.0	1,014.8	35.25	29.791
5,035.0	4,943.8	5,173.1	5,081.4	18.7	19.3	-8.73	282.0	-1,775.7	1,037.8	1,002.3	35.52	29.216
5,100.0	5,006.9	5,220.2	5,128.2	19.0	19.5	-8.63	284.8	-1,770.5	1,015.8	979.8	36.03	28.193
5,130.0	5,036.0	5,242.1	5,149.9	19.1	19.6	-8.60	286.0	-1,768.4	1,006.0	969.7	36.26	27.740
5,200.0	5,103.9	5,300.0	5,207.6	19.5	19.9	-8.53	288.7	-1,763.4	983.7	946.9	36.81	26.723
5,225.0	5,128.2	5,312.1	5,219.6	19.6	19.9	-8.52	289.2	-1,762.5	975.9	938.9	37.00	26.379
5,300.0	5,201.0	5,368.0	5,275.4	19.9	20.1	-8.50	291.2	-1,758.8	953.5	915.9	37.56	25.386
5,320.0	5,220.4	5,383.1	5,290.4	20.0	20.2	-8.50	291.7	-1,758.0	947.7	910.0	37.71	25.131
5,400.0	5,298.0	5,443.5	5,350.8	20.4	20.4	-8.54	293.1	-1,755.4	925.4	887.1	38.29	24.166
5,415.0	5,312.5	5,454.9	5,362.2	20.5	20.4	-8.55	293.3	-1,755.0	921.4	883.0	38.40	23.994
5,500.0	5,395.0	5,519.9	5,427.1	20.9	20.6	-8.64	294.0	-1,753.7	899.4	860.5	38.98	23.075
5,510.0	5,404.7	5,527.6	5,434.8	20.9	20.6	-8.66	294.0	-1,753.6	897.0	857.9	39.04	22.976
5,600.0	5,492.0	5,608.1	5,515.3	21.4	20.7	-8.85	294.1	-1,753.5	875.3	835.8	39.53	22.143
5,605.0	5,496.9	5,612.9	5,520.2	21.4	20.7	-8.87	294.1	-1,753.5	874.1	834.6	39.56	22.098
5,700.0	5,589.1	5,705.1	5,612.4	21.8	20.7	-9.10	294.1	-1,753.5	851.4	811.3	40.07	21.249
5,795.0	5,681.3	5,797.3	5,704.6	22.3	20.7	-9.36	294.1	-1,753.5	828.7	788.1	40.58	20.422
5,800.0	5,686.1	5,802.1	5,709.4	22.3	20.7	-9.37	294.1	-1,753.5	827.5	786.9	40.60	20.379
5,890.0	5,773.4	5,889.5	5,796.7	22.7	20.8	-9.62	294.1	-1,753.5	806.0	764.9	41.09	19.616
5,900.0	5,783.1	5,899.2	5,806.4	22.8	20.8	-9.65	294.1	-1,753.5	803.6	762.5	41.14	19.532
5,985.0	5,865.6	5,981.6	5,888.9	23.2	20.8	-9.90	294.1	-1,753.5	783.3	741.7	41.60	18.829
6,000.0	5,880.2	5,996.2	5,903.5	23.3	20.8	-9.95	294.1	-1,753.5	779.7	738.1	41.68	18.707
6,080.0	5,957.8	6,073.8	5,981.1	23.7	20.9	-10.20	294.1	-1,753.5	760.7	718.6	42.11	18.062
6,100.0	5,977.2	6,093.2	6,000.5	23.8	20.9	-10.26	294.1	-1,753.5	755.9	713.7	42.22	17.903
6,175.0	6,050.0	6,166.0	6,073.3	24.1	20.9	-10.51	294.1	-1,753.5	738.0	695.4	42.63	17.314
6,200.0	6,074.2	6,190.3	6,097.5	24.2	20.9	-10.60	294.1	-1,753.5	732.1	689.3	42.76	17.120
6,270.0	6,142.1	6,258.2	6,165.4	24.6	20.9	-10.85	294.1	-1,753.5	715.4	672.3	43.14	16.583
6,300.0	6,171.2	6,287.3	6,194.5	24.7	20.9	-10.96	294.1	-1,753.5	708.3	665.0	43.30	16.356
6,365.0	6,234.3	6,350.4	6,257.6	25.0	21.0	-11.21	294.1	-1,753.5	692.8	649.2	43.66	15.871
6,400.0	6,268.3	6,384.3	6,291.6	25.2	21.0	-11.34	294.1	-1,753.5	684.5	640.7	43.85	15.613
6,460.0	6,326.5	6,442.5	6,349.8	25.5	21.0	-11.59	294.1	-1,753.5	670.3	626.1	44.17	15.175
6,500.0	6,365.3	6,481.3	6,388.6	25.7	21.0	-11.76	294.1	-1,753.5	660.8	616.4	44.39	14.888
6,555.0	6,418.7	6,534.7	6,442.0	25.9	21.1	-12.00	294.1	-1,753.5	647.8	603.1	44.68	14.497
6,600.0	6,462.3	6,578.4	6,485.6	26.2	21.1	-12.20	294.1	-1,753.5	637.1	592.2	44.93	14.181
6,650.0	6,510.8	6,626.9	6,534.1	26.4	21.1	-12.43	294.1	-1,753.5	625.3	580.1	45.20	13.834
6,700.0	6,559.4	6,675.4	6,582.7	26.6	21.1	-12.68	294.1	-1,753.5	613.4	568.0	45.47	13.492
6,745.0	6,603.0	6,719.1	6,626.3	26.9	21.1	-12.90	294.1	-1,753.5	602.8	557.1	45.71	13.189
6,772.7	6,629.9	6,745.9	6,653.2	27.0	21.1	-13.05	294.1	-1,753.5	596.3	550.4	45.85	13.004
6,800.0	6,656.4	6,772.5	6,679.7	27.1	21.2	-13.16	294.1	-1,753.5	590.0	544.0	45.99	12.827

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance						
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside				Between	Between	Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)		+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
6,840.0	6,695.4	6,811.4	6,718.7	27.3	21.2	-13.32		294.1	-1,753.5	581.1	534.9	46.21	12.576		
6,900.0	6,754.1	6,870.1	6,777.4	27.6	21.2	-13.55		294.1	-1,753.5	568.9	522.4	46.53	12.227		
6,935.0	6,788.4	6,904.5	6,811.7	27.8	21.2	-13.68		294.1	-1,753.5	562.4	515.7	46.72	12.039		
7,000.0	6,852.4	6,968.4	6,875.7	28.1	21.2	-13.91		294.1	-1,753.5	551.3	504.3	47.05	11.717		
7,030.0	6,882.0	6,998.1	6,905.3	28.2	21.3	-14.00		294.1	-1,753.5	546.7	499.5	47.20	11.582		
7,100.0	6,951.3	7,067.4	6,974.6	28.5	21.3	-14.21		294.1	-1,753.5	537.0	489.5	47.55	11.295		
7,125.0	6,976.1	7,092.2	6,999.4	28.6	21.3	-14.28		294.1	-1,753.5	534.0	486.3	47.66	11.204		
7,200.0	7,050.7	7,166.7	7,074.0	29.0	21.3	-14.46		294.1	-1,753.5	526.1	478.1	48.01	10.959		
7,220.0	7,070.6	7,186.6	7,093.9	29.0	21.3	-14.50		294.1	-1,753.5	524.4	476.3	48.10	10.902		
7,300.0	7,150.4	7,266.4	7,173.7	29.3	21.4	-14.63		294.1	-1,753.5	518.6	470.2	48.44	10.706		
7,315.0	7,165.3	7,281.4	7,188.6	29.4	21.4	-14.65		294.1	-1,753.5	517.8	469.3	48.50	10.677		
7,400.0	7,250.3	7,366.3	7,273.6	29.7	21.4	-14.73		294.1	-1,753.5	514.5	465.7	48.82	10.539		
7,410.0	7,260.3	7,376.3	7,283.6	29.7	21.4	-14.74		294.1	-1,753.5	514.2	465.4	48.84	10.530		
7,472.7	7,323.0	7,439.0	7,346.3	29.8	21.5	-91.02		294.1	-1,753.5	513.6	464.6	48.96	10.490		
7,500.0	7,350.3	7,466.3	7,373.6	29.8	21.5	-91.02		294.1	-1,753.5	513.6	464.6	48.97	10.487		
7,505.0	7,355.3	7,471.3	7,378.6	29.8	21.5	-91.02		294.1	-1,753.5	513.6	464.6	48.98	10.486		
7,600.0	7,450.3	7,566.3	7,473.6	29.8	21.5	-91.02		294.1	-1,753.5	513.6	464.5	49.05	10.471		
7,695.0	7,545.3	7,661.3	7,568.6	29.8	21.6	-91.02		294.1	-1,753.5	513.6	464.5	49.12	10.455		
7,700.0	7,550.3	7,666.3	7,573.6	29.8	21.6	-91.02		294.1	-1,753.5	513.6	464.5	49.13	10.454		
7,790.0	7,640.3	7,756.3	7,663.6	29.9	21.6	-91.02		294.1	-1,753.5	513.6	464.4	49.20	10.440		
7,800.0	7,650.3	7,766.3	7,673.6	29.9	21.6	-91.02		294.1	-1,753.5	513.6	464.4	49.20	10.438		
7,885.0	7,735.3	7,851.3	7,758.6	29.9	21.6	-91.02		294.1	-1,753.5	513.6	464.3	49.27	10.424		
7,900.0	7,750.3	7,866.3	7,773.6	29.9	21.7	-91.02		294.1	-1,753.5	513.6	464.3	49.28	10.421		
7,980.0	7,830.3	7,946.3	7,853.6	29.9	21.7	-91.02		294.1	-1,753.5	513.6	464.2	49.34	10.408		
8,000.0	7,850.3	7,966.3	7,873.6	29.9	21.7	-91.02		294.1	-1,753.5	513.6	464.2	49.36	10.405		
8,075.0	7,925.3	8,041.3	7,948.6	30.0	21.7	-91.02		294.1	-1,753.5	513.6	464.2	49.42	10.393		
8,100.0	7,950.3	8,066.3	7,973.6	30.0	21.7	-91.02		294.1	-1,753.5	513.6	464.1	49.44	10.388		
8,170.0	8,020.3	8,136.3	8,043.6	30.0	21.8	-91.02		294.1	-1,753.5	513.6	464.1	49.49	10.377		
8,200.0	8,050.3	8,166.3	8,073.6	30.0	21.8	-91.02		294.1	-1,753.5	513.6	464.1	49.52	10.372		
8,265.0	8,115.3	8,231.3	8,138.6	30.0	21.8	-91.02		294.1	-1,753.5	513.6	464.0	49.57	10.361		
8,300.0	8,150.3	8,266.3	8,173.6	30.0	21.8	-91.02		294.1	-1,753.5	513.6	464.0	49.60	10.355		
8,360.0	8,210.3	8,326.3	8,233.6	30.0	21.9	-91.02		294.1	-1,753.5	513.6	463.9	49.64	10.345		
8,400.0	8,250.3	8,366.3	8,273.6	30.1	21.9	-91.02		294.1	-1,753.5	513.6	463.9	49.68	10.339		
8,455.0	8,305.3	8,421.3	8,328.6	30.1	21.9	-91.02		294.1	-1,753.5	513.6	463.9	49.72	10.330		
8,500.0	8,350.3	8,466.3	8,373.6	30.1	21.9	-91.02		294.1	-1,753.5	513.6	463.8	49.75	10.323		
8,502.7	8,353.0	8,469.0	8,376.3	30.1	21.9	-91.02		294.1	-1,753.5	513.6	463.8	49.75	10.323 CC		
8,529.8	8,380.0	8,495.8	8,403.1	30.1	21.9	-91.03		294.0	-1,753.5	513.6	463.8	49.76	10.320		
8,550.0	8,400.3	8,515.6	8,422.8	30.1	22.0	88.46		293.3	-1,753.5	513.6	463.8	49.77	10.319		
8,600.0	8,450.1	8,564.3	8,471.4	30.1	22.0	88.37		288.7	-1,753.5	513.6	463.8	49.79	10.317		
8,645.0	8,494.5	8,608.2	8,514.5	30.1	22.0	88.31		281.1	-1,753.6	513.6	463.8	49.80	10.315		
8,650.0	8,499.4	8,613.0	8,519.3	30.1	22.0	88.30		280.0	-1,753.6	513.6	463.8	49.80	10.315		
8,700.0	8,547.8	8,661.7	8,566.2	30.1	22.0	88.24		267.3	-1,753.7	513.7	463.9	49.80	10.314		
8,740.0	8,585.6	8,700.0	8,602.3	30.1	22.0	88.20		254.5	-1,753.9	513.7	463.9	49.81	10.313		
8,750.0	8,594.9	8,710.3	8,611.9	30.1	22.0	88.19		250.7	-1,753.9	513.7	463.9	49.81	10.313		
8,800.0	8,640.4	8,758.9	8,655.9	30.1	22.1	88.15		230.2	-1,754.1	513.7	463.9	49.81	10.313		
8,835.0	8,671.0	8,792.9	8,685.6	30.1	22.1	88.13		213.8	-1,754.2	513.7	463.9	49.81	10.313		
8,850.0	8,683.8	8,807.5	8,698.1	30.1	22.1	88.13		206.2	-1,754.3	513.7	463.9	49.82	10.313		
8,900.0	8,725.0	8,856.0	8,738.0	30.2	22.1	88.12		178.6	-1,754.5	513.8	463.9	49.82	10.313		
8,930.0	8,748.5	8,885.1	8,760.8	30.2	22.1	88.12		160.5	-1,754.7	513.8	463.9	49.82	10.312		
8,950.0	8,763.6	8,904.6	8,775.5	30.2	22.1	88.12		147.8	-1,754.8	513.8	463.9	49.82	10.312		
9,000.0	8,799.2	8,953.1	8,810.3	30.2	22.2	88.14		113.8	-1,755.1	513.8	464.0	49.83	10.311		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
9,025.0	8,815.9	8,977.4	8,826.5	30.2	22.2	88.16	95.8	-1,755.3	513.8	464.0	49.84	10.310
9,050.0	8,831.7	9,001.7	8,842.0	30.2	22.2	88.18	77.1	-1,755.4	513.8	464.0	49.84	10.308
9,100.0	8,860.7	9,050.0	8,870.4	30.2	22.2	88.22	38.0	-1,755.8	513.8	463.9	49.86	10.305
9,120.0	8,871.3	9,069.8	8,881.0	30.2	22.3	88.25	21.4	-1,755.9	513.8	463.9	49.87	10.303
9,150.0	8,886.0	9,099.0	8,895.7	30.3	22.3	88.28	-3.9	-1,756.1	513.8	463.9	49.89	10.300
9,200.0	8,907.5	9,147.7	8,917.2	30.3	22.3	88.35	-47.5	-1,756.5	513.8	463.9	49.92	10.293
9,215.0	8,913.2	9,162.3	8,923.0	30.3	22.3	88.38	-61.0	-1,756.6	513.8	463.9	49.93	10.290
9,250.0	8,925.0	9,196.4	8,935.0	30.3	22.4	88.44	-92.9	-1,756.9	513.8	463.9	49.96	10.284
9,300.0	8,938.4	9,245.3	8,948.9	30.4	22.4	88.54	-139.7	-1,757.3	513.8	463.8	50.02	10.273
9,310.0	8,940.5	9,255.0	8,951.1	30.4	22.4	88.56	-149.2	-1,757.4	513.8	463.8	50.03	10.270
9,350.0	8,947.5	9,294.2	8,958.7	30.4	22.5	88.64	-187.6	-1,757.8	513.8	463.7	50.09	10.259
9,400.0	8,952.2	9,343.2	8,964.4	30.5	22.5	88.76	-236.2	-1,758.2	513.8	463.7	50.16	10.244
9,405.0	8,952.5	9,348.1	8,964.8	30.5	22.5	88.77	-241.1	-1,758.2	513.8	463.7	50.17	10.242
9,429.3	8,953.0	9,371.9	8,965.8	30.5	22.6	88.83	-265.0	-1,758.5	513.8	463.6	50.21	10.234
9,500.0	8,953.1	9,442.4	8,966.1	30.6	22.6	88.85	-335.4	-1,759.1	513.9	463.5	50.37	10.203
9,595.0	8,953.1	9,537.4	8,966.2	30.7	22.8	88.85	-430.4	-1,759.9	513.9	463.3	50.62	10.153
9,600.0	8,953.1	9,542.4	8,966.2	30.7	22.8	88.85	-435.4	-1,760.0	513.9	463.3	50.63	10.150
9,690.0	8,953.2	9,632.4	8,966.2	30.9	22.9	88.86	-525.4	-1,760.8	514.0	463.1	50.91	10.095
9,700.0	8,953.2	9,642.4	8,966.3	30.9	22.9	88.86	-535.4	-1,760.8	514.0	463.0	50.95	10.089
9,785.0	8,953.3	9,727.4	8,966.3	31.0	23.1	88.86	-620.4	-1,761.6	514.0	462.8	51.25	10.030
9,800.0	8,953.3	9,742.4	8,966.4	31.1	23.1	88.86	-635.4	-1,761.7	514.0	462.7	51.30	10.020
9,880.0	8,953.4	9,822.4	8,966.4	31.2	23.3	88.86	-715.4	-1,762.4	514.1	462.5	51.62	9.959
9,900.0	8,953.4	9,842.4	8,966.5	31.2	23.3	88.86	-735.4	-1,762.6	514.1	462.4	51.71	9.943
9,975.0	8,953.4	9,917.4	8,966.5	31.4	23.5	88.86	-810.4	-1,763.3	514.1	462.1	52.04	9.880
10,000.0	8,953.5	9,942.4	8,966.6	31.5	23.5	88.86	-835.4	-1,763.5	514.2	462.0	52.15	9.859
10,070.0	8,953.5	10,012.4	8,966.6	31.6	23.7	88.87	-905.4	-1,764.1	514.2	461.7	52.49	9.797
10,100.0	8,953.5	10,042.4	8,966.7	31.7	23.8	88.87	-935.4	-1,764.4	514.2	461.6	52.64	9.769
10,165.0	8,953.6	10,107.4	8,966.7	31.8	23.9	88.87	-1,000.4	-1,765.0	514.3	461.3	52.98	9.707
10,200.0	8,953.6	10,142.4	8,966.8	31.9	24.0	88.87	-1,035.4	-1,765.3	514.3	461.1	53.17	9.673
10,260.0	8,953.7	10,202.4	8,966.8	32.1	24.2	88.87	-1,095.4	-1,765.8	514.3	460.8	53.50	9.613
10,300.0	8,953.7	10,242.4	8,966.9	32.2	24.3	88.87	-1,135.4	-1,766.2	514.3	460.6	53.73	9.572
10,355.0	8,953.7	10,297.4	8,966.9	32.3	24.4	88.87	-1,190.4	-1,766.6	514.4	460.3	54.06	9.515
10,400.0	8,953.8	10,342.4	8,967.0	32.4	24.6	88.87	-1,235.4	-1,767.0	514.4	460.1	54.33	9.467
10,450.0	8,953.8	10,392.4	8,967.0	32.6	24.7	88.87	-1,285.4	-1,767.5	514.4	459.8	54.65	9.413
10,500.0	8,953.9	10,442.4	8,967.1	32.7	24.9	88.88	-1,335.4	-1,767.9	514.5	459.5	54.97	9.358
10,545.0	8,953.9	10,487.4	8,967.1	32.8	25.0	88.88	-1,380.4	-1,768.3	514.5	459.2	55.27	9.308
10,600.0	8,953.9	10,542.4	8,967.2	33.0	25.2	88.88	-1,435.4	-1,768.8	514.5	458.9	55.65	9.246
10,640.0	8,954.0	10,582.4	8,967.2	33.1	25.3	88.88	-1,475.4	-1,769.2	514.5	458.6	55.93	9.200
10,700.0	8,954.0	10,642.4	8,967.3	33.3	25.5	88.88	-1,535.4	-1,769.7	514.6	458.2	56.36	9.130
10,735.0	8,954.0	10,677.4	8,967.3	33.4	25.7	88.88	-1,570.4	-1,770.0	514.6	458.0	56.61	9.089
10,800.0	8,954.1	10,742.4	8,967.4	33.6	25.9	88.88	-1,635.4	-1,770.6	514.6	457.5	57.10	9.013
10,830.0	8,954.1	10,772.4	8,967.4	33.7	26.0	88.88	-1,665.4	-1,770.9	514.6	457.3	57.33	8.977
10,900.0	8,954.2	10,842.4	8,967.5	34.0	26.3	88.89	-1,735.4	-1,771.5	514.7	456.8	57.87	8.894
10,925.0	8,954.2	10,867.4	8,967.5	34.0	26.4	88.89	-1,760.4	-1,771.7	514.7	456.6	58.07	8.863
11,000.0	8,954.3	10,942.4	8,967.6	34.3	26.7	88.89	-1,835.4	-1,772.4	514.7	456.1	58.67	8.773
11,020.0	8,954.3	10,962.4	8,967.6	34.4	26.7	88.89	-1,855.4	-1,772.5	514.8	455.9	58.84	8.749
11,100.0	8,954.3	11,042.4	8,967.7	34.7	27.1	88.89	-1,935.3	-1,773.2	514.8	455.3	59.50	8.652
11,115.0	8,954.4	11,057.4	8,967.7	34.7	27.1	88.89	-1,950.3	-1,773.4	514.8	455.2	59.63	8.633
11,200.0	8,954.4	11,142.4	8,967.8	35.0	27.5	88.89	-2,035.3	-1,774.1	514.9	454.5	60.36	8.530
11,210.0	8,954.4	11,152.4	8,967.8	35.1	27.5	88.89	-2,045.3	-1,774.2	514.9	454.4	60.45	8.517
11,300.0	8,954.5	11,242.4	8,967.9	35.4	27.9	88.89	-2,135.3	-1,775.0	514.9	453.7	61.24	8.408

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
11,305.0	8,954.5	11,247.4	8,967.9	35.4	27.9	88.89	-2,140.3	-1,775.1	514.9	453.6	61.29	8.401
11,400.0	8,954.6	11,342.4	8,968.0	35.8	28.4	88.90	-2,235.3	-1,775.9	515.0	452.8	62.15	8.286
11,495.0	8,954.7	11,437.4	8,968.1	36.2	28.8	88.90	-2,330.3	-1,776.7	515.0	452.0	63.04	8.170
11,500.0	8,954.7	11,442.4	8,968.1	36.2	28.8	88.90	-2,335.3	-1,776.8	515.0	451.9	63.08	8.164
11,590.0	8,954.7	11,532.4	8,968.2	36.6	29.3	88.90	-2,425.3	-1,777.6	515.1	451.1	63.94	8.055
11,600.0	8,954.7	11,542.4	8,968.2	36.6	29.3	88.90	-2,435.3	-1,777.7	515.1	451.0	64.04	8.043
11,685.0	8,954.8	11,627.4	8,968.3	37.0	29.7	88.90	-2,520.3	-1,778.4	515.1	450.3	64.87	7.941
11,700.0	8,954.8	11,642.4	8,968.3	37.1	29.8	88.90	-2,535.3	-1,778.6	515.1	450.1	65.01	7.923
11,780.0	8,954.9	11,722.4	8,968.4	37.4	30.2	88.91	-2,615.3	-1,779.3	515.2	449.4	65.81	7.828
11,800.0	8,954.9	11,742.4	8,968.4	37.5	30.3	88.91	-2,635.3	-1,779.4	515.2	449.2	66.01	7.805
11,875.0	8,955.0	11,817.4	8,968.5	37.8	30.7	88.91	-2,710.3	-1,780.1	515.2	448.5	66.77	7.716
11,900.0	8,955.0	11,842.4	8,968.5	37.9	30.8	88.91	-2,735.3	-1,780.3	515.3	448.2	67.03	7.687
11,970.0	8,955.0	11,912.4	8,968.5	38.3	31.2	88.91	-2,805.3	-1,780.9	515.3	447.5	67.75	7.606
12,000.0	8,955.1	11,942.4	8,968.6	38.4	31.4	88.91	-2,835.3	-1,781.2	515.3	447.3	68.06	7.571
12,065.0	8,955.1	12,007.4	8,968.6	38.7	31.7	88.91	-2,900.3	-1,781.8	515.4	446.6	68.75	7.496
12,100.0	8,955.1	12,042.4	8,968.7	38.9	31.9	88.91	-2,935.3	-1,782.1	515.4	446.3	69.12	7.456
12,160.0	8,955.2	12,102.4	8,968.7	39.2	32.2	88.92	-2,995.3	-1,782.6	515.4	445.6	69.76	7.388
12,200.0	8,955.2	12,142.4	8,968.8	39.3	32.4	88.92	-3,035.3	-1,783.0	515.4	445.2	70.19	7.343
12,255.0	8,955.3	12,197.4	8,968.8	39.6	32.7	88.92	-3,090.3	-1,783.5	515.5	444.7	70.79	7.282
12,300.0	8,955.3	12,242.4	8,968.9	39.8	33.0	88.92	-3,135.3	-1,783.9	515.5	444.2	71.28	7.232
12,350.0	8,955.3	12,292.4	8,968.9	40.1	33.3	88.92	-3,185.3	-1,784.3	515.5	443.7	71.83	7.177
12,400.0	8,955.4	12,342.4	8,969.0	40.3	33.6	88.92	-3,235.3	-1,784.8	515.5	443.2	72.38	7.123
12,445.0	8,955.4	12,387.4	8,969.0	40.5	33.8	88.92	-3,280.3	-1,785.2	515.6	442.7	72.88	7.074
12,500.0	8,955.5	12,442.4	8,969.1	40.8	34.1	88.92	-3,335.3	-1,785.6	515.6	442.1	73.50	7.015
12,540.0	8,955.5	12,482.4	8,969.1	41.0	34.4	88.92	-3,375.3	-1,786.0	515.6	441.7	73.95	6.973
12,600.0	8,955.6	12,542.4	8,969.2	41.3	34.7	88.93	-3,435.3	-1,786.5	515.7	441.0	74.63	6.910
12,635.0	8,955.6	12,577.4	8,969.2	41.5	34.9	88.93	-3,470.3	-1,786.8	515.7	440.7	75.03	6.873
12,700.0	8,955.6	12,642.4	8,969.3	41.8	35.3	88.93	-3,535.3	-1,787.4	515.7	439.9	75.78	6.806
12,730.0	8,955.7	12,672.4	8,969.3	42.0	35.5	88.93	-3,565.3	-1,787.7	515.7	439.6	76.12	6.775
12,800.0	8,955.7	12,742.4	8,969.4	42.4	35.9	88.93	-3,635.3	-1,788.3	515.8	438.8	76.93	6.704
12,825.0	8,955.7	12,767.4	8,969.4	42.5	36.1	88.93	-3,660.3	-1,788.5	515.8	438.6	77.23	6.679
12,900.0	8,955.8	12,842.4	8,969.5	42.9	36.5	88.93	-3,735.3	-1,789.2	515.8	437.7	78.11	6.604
12,920.0	8,955.8	12,862.4	8,969.5	43.0	36.6	88.93	-3,755.3	-1,789.4	515.8	437.5	78.34	6.584
13,000.0	8,955.9	12,942.4	8,969.6	43.4	37.1	88.93	-3,835.3	-1,790.1	515.9	436.6	79.29	6.506
13,015.0	8,955.9	12,957.4	8,969.6	43.5	37.2	88.94	-3,850.3	-1,790.2	515.9	436.4	79.47	6.492
13,100.0	8,956.0	13,042.4	8,969.7	44.0	37.7	88.94	-3,935.3	-1,791.0	515.9	435.5	80.48	6.411
13,110.0	8,956.0	13,052.4	8,969.7	44.0	37.8	88.94	-3,945.3	-1,791.0	516.0	435.3	80.60	6.401
13,200.0	8,956.0	13,142.4	8,969.8	44.5	38.4	88.94	-4,035.3	-1,791.8	516.0	434.3	81.69	6.317
13,205.0	8,956.0	13,147.4	8,969.8	44.6	38.4	88.94	-4,040.3	-1,791.9	516.0	434.3	81.75	6.312
13,300.0	8,956.1	13,242.4	8,969.9	45.1	39.0	88.94	-4,135.3	-1,792.7	516.1	433.2	82.91	6.225
13,395.0	8,956.2	13,337.4	8,970.0	45.6	39.6	88.94	-4,230.3	-1,793.6	516.1	432.0	84.07	6.139
13,400.0	8,956.2	13,342.4	8,970.0	45.7	39.6	88.94	-4,235.3	-1,793.6	516.1	432.0	84.13	6.135
13,490.0	8,956.3	13,432.4	8,970.1	46.2	40.2	88.95	-4,325.3	-1,794.4	516.2	430.9	85.24	6.055
13,500.0	8,956.3	13,442.4	8,970.1	46.2	40.3	88.95	-4,335.3	-1,794.5	516.2	430.8	85.37	6.047
13,585.0	8,956.3	13,527.4	8,970.2	46.7	40.8	88.95	-4,420.2	-1,795.3	516.2	429.8	86.43	5.973
13,600.0	8,956.4	13,542.4	8,970.2	46.8	40.9	88.95	-4,435.2	-1,795.4	516.2	429.6	86.61	5.960
13,680.0	8,956.4	13,622.4	8,970.3	47.3	41.4	88.95	-4,515.2	-1,796.1	516.3	428.7	87.61	5.893
13,700.0	8,956.4	13,642.4	8,970.3	47.4	41.5	88.95	-4,535.2	-1,796.3	516.3	428.4	87.87	5.876
13,775.0	8,956.5	13,717.4	8,970.4	47.8	42.0	88.95	-4,610.2	-1,796.9	516.3	427.5	88.81	5.814
13,800.0	8,956.5	13,742.4	8,970.4	48.0	42.2	88.95	-4,635.2	-1,797.2	516.4	427.2	89.13	5.793
13,870.0	8,956.6	13,812.4	8,970.5	48.4	42.7	88.96	-4,705.2	-1,797.8	516.4	426.4	90.02	5.737

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS				Rule Assigned:						Offset Well Error:		3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Minimum Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation Factor			
13,900.0	8,956.6	13,842.4	8,970.5	48.5	42.8	88.96	-4,735.2	-1,798.0	516.4	426.0	90.40	5.713		
13,965.0	8,956.6	13,907.4	8,970.6	48.9	43.3	88.96	-4,800.2	-1,798.6	516.4	425.2	91.23	5.661		
14,000.0	8,956.7	13,942.4	8,970.6	49.1	43.5	88.96	-4,835.2	-1,798.9	516.5	424.8	91.68	5.634		
14,060.0	8,956.7	14,002.4	8,970.7	49.5	43.9	88.96	-4,895.2	-1,799.5	516.5	424.1	92.45	5.587		
14,100.0	8,956.8	14,042.4	8,970.7	49.7	44.2	88.96	-4,935.2	-1,799.8	516.5	423.6	92.96	5.556		
14,155.0	8,956.8	14,097.4	8,970.7	50.1	44.5	88.96	-4,990.2	-1,800.3	516.6	422.9	93.67	5.515		
14,200.0	8,956.8	14,142.4	8,970.8	50.3	44.8	88.96	-5,035.2	-1,800.7	516.6	422.3	94.25	5.481		
14,250.0	8,956.9	14,192.4	8,970.8	50.6	45.2	88.96	-5,085.2	-1,801.1	516.6	421.7	94.90	5.444		
14,300.0	8,956.9	14,242.4	8,970.9	50.9	45.5	88.97	-5,135.2	-1,801.6	516.6	421.1	95.55	5.407		
14,345.0	8,957.0	14,287.4	8,970.9	51.2	45.8	88.97	-5,180.2	-1,802.0	516.7	420.5	96.14	5.374		
14,400.0	8,957.0	14,342.4	8,971.0	51.6	46.2	88.97	-5,235.2	-1,802.5	516.7	419.8	96.86	5.335		
14,440.0	8,957.0	14,382.4	8,971.0	51.8	46.5	88.97	-5,275.2	-1,802.8	516.7	419.3	97.38	5.306		
14,500.0	8,957.1	14,442.4	8,971.1	52.2	46.9	88.97	-5,335.2	-1,803.4	516.8	418.6	98.17	5.264		
14,535.0	8,957.1	14,477.4	8,971.1	52.4	47.1	88.97	-5,370.2	-1,803.7	516.8	418.1	98.63	5.239		
14,600.0	8,957.2	14,542.4	8,971.2	52.8	47.5	88.97	-5,435.2	-1,804.2	516.8	417.3	99.49	5.195		
14,630.0	8,957.2	14,572.4	8,971.2	53.0	47.7	88.97	-5,465.2	-1,804.5	516.8	416.9	99.89	5.174		
14,700.0	8,957.2	14,642.4	8,971.3	53.4	48.2	88.98	-5,535.2	-1,805.1	516.9	416.1	100.81	5.127		
14,725.0	8,957.3	14,667.4	8,971.3	53.6	48.4	88.98	-5,560.2	-1,805.3	516.9	415.7	101.14	5.110		
14,800.0	8,957.3	14,742.4	8,971.4	54.0	48.9	88.98	-5,635.2	-1,806.0	516.9	414.8	102.14	5.061		
14,820.0	8,957.3	14,762.4	8,971.4	54.2	49.0	88.98	-5,655.2	-1,806.2	516.9	414.5	102.41	5.048		
14,900.0	8,957.4	14,842.4	8,971.5	54.7	49.6	88.98	-5,735.2	-1,806.9	517.0	413.5	103.48	4.996		
14,915.0	8,957.4	14,857.4	8,971.5	54.8	49.7	88.98	-5,750.2	-1,807.0	517.0	413.3	103.68	4.987		
15,000.0	8,957.5	14,942.4	8,971.6	55.3	50.3	88.98	-5,835.2	-1,807.8	517.0	412.2	104.82	4.933		
15,010.0	8,957.5	14,952.4	8,971.6	55.4	50.3	88.98	-5,845.2	-1,807.9	517.0	412.1	104.95	4.927		
15,100.0	8,957.6	15,042.4	8,971.7	56.0	51.0	88.98	-5,935.2	-1,808.7	517.1	410.9	106.16	4.871		
15,105.0	8,957.6	15,047.4	8,971.7	56.0	51.0	88.98	-5,940.2	-1,808.7	517.1	410.9	106.23	4.868		
15,200.0	8,957.6	15,142.4	8,971.8	56.6	51.7	88.99	-6,035.2	-1,809.6	517.2	409.6	107.51	4.810		
15,295.0	8,957.7	15,237.4	8,971.9	57.2	52.3	88.99	-6,130.2	-1,810.4	517.2	408.4	108.80	4.754		
15,300.0	8,957.7	15,242.4	8,971.9	57.2	52.4	88.99	-6,135.2	-1,810.4	517.2	408.3	108.87	4.751		
15,390.0	8,957.8	15,332.4	8,972.0	57.8	53.0	88.99	-6,225.2	-1,811.2	517.3	407.2	110.09	4.699		
15,400.0	8,957.8	15,342.4	8,972.0	57.9	53.1	88.99	-6,235.2	-1,811.3	517.3	407.0	110.23	4.693		
15,485.0	8,957.9	15,427.4	8,972.1	58.4	53.6	88.99	-6,320.2	-1,812.1	517.3	405.9	111.38	4.644		
15,500.0	8,957.9	15,442.4	8,972.1	58.5	53.8	88.99	-6,335.2	-1,812.2	517.3	405.7	111.59	4.636		
15,580.0	8,957.9	15,522.4	8,972.2	59.1	54.3	89.00	-6,415.2	-1,812.9	517.4	404.7	112.68	4.591		
15,600.0	8,958.0	15,542.4	8,972.2	59.2	54.5	89.00	-6,435.2	-1,813.1	517.4	404.4	112.96	4.580		
15,675.0	8,958.0	15,617.4	8,972.3	59.7	55.0	89.00	-6,510.2	-1,813.8	517.4	403.4	113.98	4.539		
15,700.0	8,958.0	15,642.4	8,972.3	59.8	55.2	89.00	-6,535.2	-1,814.0	517.4	403.1	114.33	4.526		
15,770.0	8,958.1	15,712.4	8,972.4	60.3	55.7	89.00	-6,605.2	-1,814.6	517.5	402.2	115.29	4.489		
15,800.0	8,958.1	15,742.4	8,972.4	60.5	55.9	89.00	-6,635.2	-1,814.9	517.5	401.8	115.70	4.473		
15,865.0	8,958.2	15,807.4	8,972.5	60.9	56.3	89.00	-6,700.2	-1,815.4	517.5	400.9	116.60	4.439		
15,900.0	8,958.2	15,842.4	8,972.5	61.2	56.6	89.00	-6,735.2	-1,815.8	517.6	400.5	117.08	4.420		
15,960.0	8,958.3	15,902.4	8,972.6	61.6	57.0	89.00	-6,795.2	-1,816.3	517.6	399.7	117.91	4.390		
16,000.0	8,958.3	15,942.4	8,972.6	61.8	57.3	89.01	-6,835.2	-1,816.6	517.6	399.2	118.47	4.369		
16,055.0	8,958.3	15,997.4	8,972.7	62.2	57.7	89.01	-6,890.2	-1,817.1	517.7	398.4	119.23	4.342		
16,100.0	8,958.4	16,042.4	8,972.7	62.5	58.0	89.01	-6,935.1	-1,817.5	517.7	397.8	119.85	4.319		
16,150.0	8,958.4	16,092.4	8,972.8	62.8	58.3	89.01	-6,985.1	-1,818.0	517.7	397.2	120.55	4.295		
16,200.0	8,958.4	16,142.4	8,972.8	63.1	58.7	89.01	-7,035.1	-1,818.4	517.7	396.5	121.24	4.270		
16,245.0	8,958.5	16,187.4	8,972.9	63.5	59.0	89.01	-7,080.1	-1,818.8	517.8	395.9	121.87	4.249		
16,300.0	8,958.5	16,242.4	8,972.9	63.8	59.4	89.01	-7,135.1	-1,819.3	517.8	395.2	122.63	4.222		
16,340.0	8,958.6	16,282.4	8,972.9	64.1	59.7	89.01	-7,175.1	-1,819.6	517.8	394.6	123.19	4.203		
16,400.0	8,958.6	16,342.4	8,973.0	64.5	60.1	89.02	-7,235.1	-1,820.2	517.8	393.8	124.03	4.175		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor
16,435.0	8,958.6	16,377.4	8,973.0	64.7	60.4	89.02	-7,270.1	-1,820.5	517.9	393.4	124.52	4.159
16,500.0	8,958.7	16,442.4	8,973.1	65.2	60.8	89.02	-7,335.1	-1,821.1	517.9	392.5	125.43	4.129
16,530.0	8,958.7	16,472.4	8,973.1	65.4	61.1	89.02	-7,365.1	-1,821.3	517.9	392.1	125.85	4.115
16,600.0	8,958.8	16,542.4	8,973.2	65.8	61.6	89.02	-7,435.1	-1,822.0	518.0	391.1	126.83	4.084
16,625.0	8,958.8	16,567.4	8,973.2	66.0	61.7	89.02	-7,460.1	-1,822.2	518.0	390.8	127.18	4.073
16,700.0	8,958.8	16,642.4	8,973.3	66.5	62.3	89.02	-7,535.1	-1,822.8	518.0	389.8	128.24	4.040
16,720.0	8,958.9	16,662.4	8,973.3	66.7	62.4	89.02	-7,555.1	-1,823.0	518.0	389.5	128.52	4.031
16,800.0	8,958.9	16,742.4	8,973.4	67.2	63.0	89.02	-7,635.1	-1,823.7	518.1	388.4	129.64	3.996
16,815.0	8,958.9	16,757.4	8,973.4	67.3	63.1	89.03	-7,650.1	-1,823.9	518.1	388.2	129.85	3.990
16,900.0	8,959.0	16,842.4	8,973.5	67.9	63.7	89.03	-7,735.1	-1,824.6	518.1	387.1	131.05	3.954
16,910.0	8,959.0	16,852.4	8,973.5	67.9	63.8	89.03	-7,745.1	-1,824.7	518.1	386.9	131.19	3.949
17,000.0	8,959.1	16,942.4	8,973.6	68.6	64.4	89.03	-7,835.1	-1,825.5	518.2	385.7	132.47	3.912
17,005.0	8,959.1	16,947.4	8,973.6	68.6	64.5	89.03	-7,840.1	-1,825.5	518.2	385.7	132.54	3.910
17,100.0	8,959.2	17,042.4	8,973.7	69.2	65.2	89.03	-7,935.1	-1,826.4	518.3	384.4	133.88	3.871
17,195.0	8,959.2	17,137.4	8,973.8	69.9	65.8	89.03	-8,030.1	-1,827.2	518.3	383.1	135.23	3.833
17,200.0	8,959.3	17,142.4	8,973.8	69.9	65.9	89.03	-8,035.1	-1,827.3	518.3	383.0	135.30	3.831
17,290.0	8,959.3	17,232.4	8,973.9	70.6	66.5	89.04	-8,125.1	-1,828.1	518.4	381.8	136.58	3.795
17,300.0	8,959.3	17,242.4	8,973.9	70.6	66.6	89.04	-8,135.1	-1,828.1	518.4	381.6	136.72	3.791
17,385.0	8,959.4	17,327.4	8,974.0	71.2	67.2	89.04	-8,220.1	-1,828.9	518.4	380.5	137.93	3.759
17,400.0	8,959.4	17,342.4	8,974.0	71.3	67.3	89.04	-8,235.1	-1,829.0	518.4	380.3	138.14	3.753
17,480.0	8,959.5	17,422.4	8,974.1	71.9	67.9	89.04	-8,315.1	-1,829.7	518.5	379.2	139.28	3.722
17,500.0	8,959.5	17,442.4	8,974.1	72.0	68.0	89.04	-8,335.1	-1,829.9	518.5	378.9	139.57	3.715
17,575.0	8,959.6	17,517.4	8,974.2	72.5	68.6	89.04	-8,410.1	-1,830.6	518.5	377.9	140.64	3.687
17,600.0	8,959.6	17,542.4	8,974.2	72.7	68.8	89.04	-8,435.1	-1,830.8	518.5	377.5	140.99	3.678
17,670.0	8,959.6	17,612.4	8,974.3	73.2	69.3	89.05	-8,505.1	-1,831.4	518.6	376.6	141.99	3.652
17,700.0	8,959.7	17,642.4	8,974.3	73.4	69.5	89.05	-8,535.1	-1,831.7	518.6	376.2	142.42	3.641
17,765.0	8,959.7	17,707.4	8,974.4	73.8	70.0	89.05	-8,600.1	-1,832.3	518.6	375.3	143.35	3.618
17,800.0	8,959.7	17,742.4	8,974.4	74.1	70.2	89.05	-8,635.1	-1,832.6	518.7	374.8	143.85	3.605
17,860.0	8,959.8	17,802.4	8,974.5	74.5	70.7	89.05	-8,695.1	-1,833.1	518.7	374.0	144.71	3.584
17,900.0	8,959.8	17,842.4	8,974.5	74.8	71.0	89.05	-8,735.1	-1,833.5	518.7	373.4	145.28	3.570
17,955.0	8,959.9	17,897.4	8,974.6	75.2	71.4	89.05	-8,790.1	-1,834.0	518.7	372.7	146.07	3.551
18,000.0	8,959.9	17,942.4	8,974.6	75.5	71.7	89.05	-8,835.1	-1,834.3	518.8	372.1	146.72	3.536
18,050.0	8,959.9	17,992.4	8,974.7	75.8	72.1	89.05	-8,885.1	-1,834.8	518.8	371.4	147.44	3.519
18,100.0	8,960.0	18,042.4	8,974.7	76.2	72.4	89.06	-8,935.1	-1,835.2	518.8	370.7	148.16	3.502
18,145.0	8,960.0	18,087.4	8,974.8	76.5	72.7	89.06	-8,980.1	-1,835.6	518.9	370.1	148.80	3.487
18,200.0	8,960.1	18,142.4	8,974.8	76.9	73.2	89.06	-9,035.1	-1,836.1	518.9	369.3	149.59	3.469
18,240.0	8,960.1	18,182.4	8,974.9	77.2	73.4	89.06	-9,075.1	-1,836.5	518.9	368.7	150.17	3.455
18,300.0	8,960.1	18,242.4	8,974.9	77.6	73.9	89.06	-9,135.1	-1,837.0	518.9	367.9	151.03	3.436
18,335.0	8,960.2	18,277.4	8,975.0	77.8	74.1	89.06	-9,170.1	-1,837.3	519.0	367.4	151.54	3.425
18,400.0	8,960.2	18,342.4	8,975.0	78.3	74.6	89.06	-9,235.1	-1,837.9	519.0	366.5	152.48	3.404
18,430.0	8,960.2	18,372.4	8,975.1	78.5	74.8	89.06	-9,265.1	-1,838.2	519.0	366.1	152.91	3.394
18,500.0	8,960.3	18,442.4	8,975.1	79.0	75.3	89.06	-9,335.1	-1,838.8	519.1	365.1	153.92	3.372
18,525.0	8,960.3	18,467.4	8,975.1	79.2	75.5	89.07	-9,360.1	-1,839.0	519.1	364.8	154.28	3.364
18,600.0	8,960.4	18,542.4	8,975.2	79.7	76.1	89.07	-9,435.0	-1,839.7	519.1	363.8	155.36	3.341
18,620.0	8,960.4	18,562.4	8,975.2	79.8	76.2	89.07	-9,455.0	-1,839.8	519.1	363.5	155.65	3.335
18,700.0	8,960.5	18,642.4	8,975.3	80.4	76.8	89.07	-9,535.0	-1,840.5	519.2	362.4	156.81	3.311
18,715.0	8,960.5	18,657.4	8,975.3	80.5	76.9	89.07	-9,550.0	-1,840.7	519.2	362.2	157.03	3.306
18,800.0	8,960.5	18,742.4	8,975.4	81.1	77.6	89.07	-9,635.0	-1,841.4	519.2	361.0	158.26	3.281
18,810.0	8,960.5	18,752.4	8,975.4	81.2	77.6	89.07	-9,645.0	-1,841.5	519.2	360.8	158.40	3.278
18,900.0	8,960.6	18,842.4	8,975.5	81.8	78.3	89.07	-9,735.0	-1,842.3	519.3	359.6	159.71	3.251
18,905.0	8,960.6	18,847.4	8,975.5	81.8	78.3	89.07	-9,740.0	-1,842.4	519.3	359.5	159.78	3.250

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
19,000.0	8,960.7	18,942.4	8,975.6	82.5	79.0	89.08	-9,835.0	-1,843.2	519.3	358.2	161.16	3.223
19,095.0	8,960.8	19,037.4	8,975.7	83.2	79.7	89.08	-9,930.0	-1,844.0	519.4	356.9	162.54	3.196
19,100.0	8,960.8	19,042.4	8,975.7	83.2	79.8	89.08	-9,935.0	-1,844.1	519.4	356.8	162.61	3.194
19,190.0	8,960.9	19,132.4	8,975.8	83.9	80.4	89.08	-10,025.0	-1,844.9	519.5	355.5	163.92	3.169
19,200.0	8,960.9	19,142.4	8,975.8	83.9	80.5	89.08	-10,035.0	-1,845.0	519.5	355.4	164.07	3.166
19,285.0	8,960.9	19,227.4	8,975.9	84.6	81.1	89.08	-10,120.0	-1,845.7	519.5	354.2	165.30	3.143
19,300.0	8,960.9	19,242.4	8,975.9	84.7	81.2	89.08	-10,135.0	-1,845.9	519.5	354.0	165.52	3.139
19,380.0	8,961.0	19,322.4	8,976.0	85.2	81.8	89.09	-10,215.0	-1,846.6	519.6	352.9	166.69	3.117
19,400.0	8,961.0	19,342.4	8,976.0	85.4	82.0	89.09	-10,235.0	-1,846.7	519.6	352.6	166.98	3.112
19,475.0	8,961.1	19,417.4	8,976.1	85.9	82.5	89.09	-10,310.0	-1,847.4	519.6	351.6	168.07	3.092
19,500.0	8,961.1	19,442.4	8,976.1	86.1	82.7	89.09	-10,335.0	-1,847.6	519.6	351.2	168.44	3.085
19,570.0	8,961.2	19,512.4	8,976.2	86.6	83.2	89.09	-10,405.0	-1,848.3	519.7	350.2	169.46	3.067
19,600.0	8,961.2	19,542.4	8,976.2	86.8	83.5	89.09	-10,435.0	-1,848.5	519.7	349.8	169.89	3.059
19,665.0	8,961.2	19,607.4	8,976.3	87.3	83.9	89.09	-10,500.0	-1,849.1	519.7	348.9	170.84	3.042
19,700.0	8,961.3	19,642.4	8,976.3	87.5	84.2	89.09	-10,535.0	-1,849.4	519.8	348.4	171.35	3.033
19,760.0	8,961.3	19,702.4	8,976.4	87.9	84.6	89.09	-10,595.0	-1,849.9	519.8	347.6	172.23	3.018
19,800.0	8,961.3	19,742.4	8,976.4	88.2	84.9	89.09	-10,635.0	-1,850.3	519.8	347.0	172.82	3.008
19,855.0	8,961.4	19,797.4	8,976.5	88.6	85.3	89.10	-10,690.0	-1,850.8	519.8	346.2	173.62	2.994
19,900.0	8,961.4	19,842.4	8,976.5	88.9	85.7	89.10	-10,735.0	-1,851.2	519.9	345.6	174.28	2.983
19,950.0	8,961.5	19,892.4	8,976.6	89.3	86.0	89.10	-10,785.0	-1,851.6	519.9	344.9	175.01	2.971
20,000.0	8,961.5	19,942.4	8,976.6	89.7	86.4	89.10	-10,835.0	-1,852.1	519.9	344.2	175.74	2.958
20,045.0	8,961.5	19,987.4	8,976.7	90.0	86.7	89.10	-10,880.0	-1,852.5	520.0	343.5	176.40	2.948
20,100.0	8,961.6	20,042.4	8,976.7	90.4	87.2	89.10	-10,935.0	-1,852.9	520.0	342.8	177.21	2.934
20,140.0	8,961.6	20,082.4	8,976.8	90.7	87.5	89.10	-10,975.0	-1,853.3	520.0	342.2	177.79	2.925
20,200.0	8,961.7	20,142.4	8,976.8	91.1	87.9	89.10	-11,035.0	-1,853.8	520.0	341.4	178.67	2.911
20,235.0	8,961.7	20,177.4	8,976.9	91.4	88.2	89.11	-11,070.0	-1,854.1	520.1	340.9	179.18	2.902
20,300.0	8,961.7	20,242.4	8,976.9	91.8	88.6	89.11	-11,135.0	-1,854.7	520.1	340.0	180.14	2.887
20,330.0	8,961.8	20,272.4	8,977.0	92.0	88.9	89.11	-11,165.0	-1,855.0	520.1	339.5	180.58	2.880
20,400.0	8,961.8	20,342.4	8,977.0	92.5	89.4	89.11	-11,235.0	-1,855.6	520.2	338.5	181.61	2.864
20,425.0	8,961.8	20,367.4	8,977.1	92.7	89.6	89.11	-11,260.0	-1,855.8	520.2	338.2	181.97	2.858
20,500.0	8,961.9	20,442.4	8,977.1	93.3	90.1	89.11	-11,335.0	-1,856.5	520.2	337.1	183.07	2.842
20,520.0	8,961.9	20,462.4	8,977.2	93.4	90.3	89.11	-11,355.0	-1,856.7	520.2	336.9	183.37	2.837
20,600.0	8,962.0	20,542.4	8,977.2	94.0	90.9	89.11	-11,435.0	-1,857.4	520.3	335.7	184.54	2.819
20,615.0	8,962.0	20,557.4	8,977.3	94.1	91.0	89.11	-11,450.0	-1,857.5	520.3	335.5	184.76	2.816
20,700.0	8,962.1	20,642.4	8,977.3	94.7	91.6	89.12	-11,535.0	-1,858.3	520.3	334.3	186.01	2.797
20,710.0	8,962.1	20,652.4	8,977.3	94.8	91.7	89.12	-11,545.0	-1,858.3	520.3	334.2	186.16	2.795
20,800.0	8,962.1	20,742.4	8,977.4	95.4	92.4	89.12	-11,635.0	-1,859.1	520.4	332.9	187.49	2.776
20,805.0	8,962.2	20,747.4	8,977.4	95.5	92.4	89.12	-11,640.0	-1,859.2	520.4	332.8	187.56	2.775
20,900.0	8,962.2	20,842.4	8,977.5	96.2	93.1	89.12	-11,735.0	-1,860.0	520.4	331.5	188.96	2.754
20,995.0	8,962.3	20,937.4	8,977.6	96.9	93.8	89.12	-11,830.0	-1,860.9	520.5	330.1	190.36	2.734
21,000.0	8,962.3	20,942.4	8,977.6	96.9	93.8	89.12	-11,835.0	-1,860.9	520.5	330.1	190.43	2.733
21,090.0	8,962.4	21,032.4	8,977.7	97.5	94.5	89.12	-11,924.9	-1,861.7	520.6	328.8	191.76	2.715
21,100.0	8,962.4	21,042.4	8,977.7	97.6	94.6	89.13	-11,934.9	-1,861.8	520.6	328.7	191.91	2.713
21,185.0	8,962.5	21,127.4	8,977.8	98.2	95.2	89.13	-12,019.9	-1,862.6	520.6	327.4	193.16	2.695
21,200.0	8,962.5	21,142.4	8,977.8	98.3	95.3	89.13	-12,034.9	-1,862.7	520.6	327.2	193.38	2.692
21,280.0	8,962.5	21,222.4	8,977.9	98.9	95.9	89.13	-12,114.9	-1,863.4	520.7	326.1	194.56	2.676
21,300.0	8,962.5	21,242.4	8,977.9	99.1	96.1	89.13	-12,134.9	-1,863.6	520.7	325.8	194.86	2.672
21,375.0	8,962.6	21,317.4	8,978.0	99.6	96.6	89.13	-12,209.9	-1,864.2	520.7	324.8	195.96	2.657
21,400.0	8,962.6	21,342.4	8,978.0	99.8	96.8	89.13	-12,234.9	-1,864.5	520.7	324.4	196.33	2.652
21,470.0	8,962.7	21,412.4	8,978.1	100.3	97.3	89.13	-12,304.9	-1,865.1	520.8	323.4	197.37	2.639
21,500.0	8,962.7	21,442.4	8,978.1	100.5	97.6	89.13	-12,334.9	-1,865.3	520.8	323.0	197.81	2.633

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		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		
21,565.0	8,962.8	21,507.4	8,978.2	101.0	98.1	89.14	-12,399.9	-1,865.9	520.8	322.1	198.77	2.620		
21,600.0	8,962.8	21,542.4	8,978.2	101.3	98.3	89.14	-12,434.9	-1,866.2	520.8	321.6	199.29	2.614		
21,660.0	8,962.8	21,602.4	8,978.3	101.7	98.8	89.14	-12,494.9	-1,866.8	520.9	320.7	200.18	2.602		
21,700.0	8,962.9	21,642.4	8,978.3	102.0	99.1	89.14	-12,534.9	-1,867.1	520.9	320.1	200.77	2.595		
21,755.0	8,962.9	21,697.4	8,978.4	102.4	99.5	89.14	-12,589.9	-1,867.6	520.9	319.4	201.58	2.584		
21,800.0	8,963.0	21,742.4	8,978.4	102.7	99.8	89.14	-12,634.9	-1,868.0	521.0	318.7	202.25	2.576		
21,850.0	8,963.0	21,792.4	8,978.5	103.1	100.2	89.14	-12,684.9	-1,868.4	521.0	318.0	202.99	2.567		
21,900.0	8,963.0	21,842.4	8,978.5	103.4	100.6	89.14	-12,734.9	-1,868.9	521.0	317.3	203.73	2.557		
21,945.0	8,963.1	21,887.4	8,978.6	103.8	100.9	89.14	-12,779.9	-1,869.3	521.0	316.7	204.39	2.549		
22,000.0	8,963.1	21,942.4	8,978.6	104.2	101.3	89.15	-12,834.9	-1,869.8	521.1	315.9	205.21	2.539		
22,040.0	8,963.1	21,982.4	8,978.7	104.5	101.6	89.15	-12,874.9	-1,870.1	521.1	315.3	205.80	2.532		
22,100.0	8,963.2	22,042.4	8,978.7	104.9	102.1	89.15	-12,934.9	-1,870.7	521.1	314.4	206.69	2.521		
22,135.0	8,963.2	22,077.4	8,978.8	105.2	102.3	89.15	-12,969.9	-1,871.0	521.2	313.9	207.21	2.515		
22,200.0	8,963.3	22,142.4	8,978.8	105.6	102.8	89.15	-13,034.9	-1,871.5	521.2	313.0	208.17	2.504		
22,230.0	8,963.3	22,172.4	8,978.9	105.9	103.0	89.15	-13,064.9	-1,871.8	521.2	312.6	208.62	2.498		
22,300.0	8,963.4	22,242.4	8,978.9	106.4	103.6	89.15	-13,134.9	-1,872.4	521.3	311.6	209.65	2.486		
22,325.0	8,963.4	22,267.4	8,979.0	106.6	103.7	89.15	-13,159.9	-1,872.6	521.3	311.2	210.03	2.482		
22,400.0	8,963.4	22,342.4	8,979.1	107.1	104.3	89.16	-13,234.9	-1,873.3	521.3	310.2	211.14	2.469		
22,420.0	8,963.5	22,362.4	8,979.1	107.2	104.4	89.16	-13,254.9	-1,873.5	521.3	309.9	211.44	2.466		
22,500.0	8,963.5	22,442.4	8,979.2	107.8	105.0	89.16	-13,334.9	-1,874.2	521.4	308.7	212.62	2.452		
22,515.0	8,963.5	22,457.4	8,979.2	107.9	105.2	89.16	-13,349.9	-1,874.3	521.4	308.5	212.85	2.450		
22,600.0	8,963.6	22,542.4	8,979.3	108.6	105.8	89.16	-13,434.9	-1,875.1	521.4	307.3	214.11	2.435		
22,610.0	8,963.6	22,552.4	8,979.3	108.6	105.9	89.16	-13,444.9	-1,875.2	521.4	307.2	214.26	2.434		
22,700.0	8,963.7	22,642.4	8,979.4	109.3	106.5	89.16	-13,534.9	-1,876.0	521.5	305.9	215.59	2.419		
22,705.0	8,963.7	22,647.4	8,979.4	109.3	106.6	89.16	-13,539.9	-1,876.0	521.5	305.8	215.67	2.418		
22,800.0	8,963.8	22,742.4	8,979.5	110.0	107.3	89.16	-13,634.9	-1,876.9	521.5	304.5	217.08	2.403		
22,895.0	8,963.8	22,837.4	8,979.5	110.7	108.0	89.17	-13,729.9	-1,877.7	521.6	303.1	218.49	2.387		
22,900.0	8,963.8	22,842.4	8,979.6	110.8	108.0	89.17	-13,734.9	-1,877.7	521.6	303.0	218.57	2.386		
22,990.0	8,963.9	22,932.4	8,979.6	111.4	108.7	89.17	-13,824.9	-1,878.5	521.6	301.7	219.90	2.372		
23,000.0	8,963.9	22,942.4	8,979.7	111.5	108.8	89.17	-13,834.9	-1,878.6	521.7	301.6	220.05	2.371		
23,085.0	8,964.0	23,027.4	8,979.7	112.1	109.4	89.17	-13,919.9	-1,879.4	521.7	300.4	221.32	2.357		
23,100.0	8,964.0	23,042.4	8,979.8	112.2	109.5	89.17	-13,934.9	-1,879.5	521.7	300.2	221.54	2.355		
23,180.0	8,964.1	23,122.4	8,979.8	112.8	110.1	89.17	-14,014.9	-1,880.2	521.8	299.0	222.73	2.343		
23,200.0	8,964.1	23,142.4	8,979.9	113.0	110.3	89.17	-14,034.9	-1,880.4	521.8	298.7	223.03	2.339		
23,275.0	8,964.1	23,217.4	8,979.9	113.5	110.9	89.18	-14,109.9	-1,881.1	521.8	297.7	224.15	2.328		
23,300.0	8,964.2	23,242.4	8,980.0	113.7	111.0	89.18	-14,134.9	-1,881.3	521.8	297.3	224.52	2.324		
23,370.0	8,964.2	23,312.4	8,980.0	114.2	111.6	89.18	-14,204.9	-1,881.9	521.9	296.3	225.56	2.314		
23,400.0	8,964.2	23,342.4	8,980.1	114.4	111.8	89.18	-14,234.9	-1,882.2	521.9	295.9	226.01	2.309		
23,465.0	8,964.3	23,407.4	8,980.1	114.9	112.3	89.18	-14,299.9	-1,882.7	521.9	294.9	226.98	2.299		
23,500.0	8,964.3	23,442.4	8,980.2	115.2	112.5	89.18	-14,334.9	-1,883.1	521.9	294.4	227.50	2.294		
23,560.0	8,964.4	23,502.4	8,980.2	115.6	113.0	89.18	-14,394.9	-1,883.6	522.0	293.6	228.39	2.285		
23,600.0	8,964.4	23,542.4	8,980.3	115.9	113.3	89.18	-14,434.8	-1,883.9	522.0	293.0	228.99	2.280		
23,655.0	8,964.4	23,597.4	8,980.3	116.3	113.7	89.18	-14,489.8	-1,884.4	522.0	292.2	229.81	2.272		
23,700.0	8,964.5	23,642.4	8,980.4	116.7	114.0	89.19	-14,534.8	-1,884.8	522.1	291.6	230.48	2.265		
23,750.0	8,964.5	23,692.4	8,980.4	117.0	114.4	89.19	-14,584.8	-1,885.3	522.1	290.9	231.22	2.258		
23,800.0	8,964.6	23,742.4	8,980.5	117.4	114.8	89.19	-14,634.8	-1,885.7	522.1	290.1	231.97	2.251		
23,845.0	8,964.6	23,787.4	8,980.5	117.7	115.1	89.19	-14,679.8	-1,886.1	522.1	289.5	232.64	2.244		
23,900.0	8,964.6	23,842.4	8,980.6	118.1	115.6	89.19	-14,734.8	-1,886.6	522.2	288.7	233.46	2.237		
23,940.0	8,964.7	23,882.4	8,980.6	118.4	115.9	89.19	-14,774.8	-1,887.0	522.2	288.1	234.06	2.231		
24,000.0	8,964.7	23,942.4	8,980.7	118.9	116.3	89.19	-14,834.8	-1,887.5	522.2	287.3	234.95	2.223		
24,035.0	8,964.8	23,977.4	8,980.7	119.1	116.6	89.19	-14,869.8	-1,887.8	522.3	286.8	235.48	2.218		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
24,100.0	8,964.8	24,042.4	8,980.8	119.6	117.1	89.19	-14,934.8	-1,888.4	522.3	285.8	236.45	2.209	
24,130.0	8,964.8	24,072.4	8,980.8	119.8	117.3	89.20	-14,964.8	-1,888.6	522.3	285.4	236.89	2.205	
24,200.0	8,964.9	24,142.4	8,980.9	120.4	117.8	89.20	-15,034.8	-1,889.3	522.3	284.4	237.94	2.195	
24,214.6	8,964.9	24,156.9	8,980.9	120.5	117.9	89.20	-15,049.4	-1,889.4	522.4	284.2	238.16	2.193	
24,225.0	8,964.9	24,167.4	8,980.9	120.5	118.0	89.20	-15,059.8	-1,889.5	522.4	284.0	238.31	2.192	
24,300.0	8,965.0	24,242.4	8,981.0	121.1	118.6	89.20	-15,134.8	-1,890.1	522.4	283.0	239.43	2.182	
24,320.0	8,965.0	24,262.4	8,981.0	121.2	118.7	89.20	-15,154.8	-1,890.3	522.4	282.7	239.73	2.179	
24,320.1	8,965.0	24,262.5	8,981.0	121.2	118.7	89.20	-15,154.9	-1,890.3	522.4	282.7	239.73	2.179	
24,344.7	8,965.0	24,278.2	8,981.0	121.4	118.8	89.20	-15,170.6	-1,890.5	522.5	282.5	240.03	2.177 ES, SF	
24,345.4	8,965.0	24,278.2	8,981.0	121.4	118.8	89.20	-15,170.6	-1,890.5	522.5	282.5	240.03	2.177	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured 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)		
5,795.0	5,681.3	5,738.6	5,705.3	22.3	17.5	-11.51	285.5	-2,238.4	1,312.2	1,277.6	34.56	37.973	
5,800.0	5,686.1	5,743.5	5,710.1	22.3	17.5	-11.52	285.5	-2,238.4	1,311.0	1,276.4	34.58	37.908	
5,890.0	5,773.4	5,830.8	5,797.4	22.7	17.5	-11.71	285.5	-2,238.4	1,289.6	1,254.5	35.08	36.758	
5,900.0	5,783.1	5,840.5	5,807.1	22.8	17.5	-11.73	285.5	-2,238.4	1,287.2	1,252.1	35.14	36.632	
5,985.0	5,865.6	5,923.0	5,889.6	23.2	17.6	-11.92	285.5	-2,238.4	1,267.1	1,231.5	35.61	35.579	
6,000.0	5,880.2	5,937.5	5,904.2	23.3	17.6	-11.96	285.5	-2,238.4	1,263.5	1,227.8	35.70	35.396	
6,080.0	5,957.8	6,015.2	5,981.8	23.7	17.6	-12.14	285.5	-2,238.4	1,244.6	1,208.4	36.14	34.436	
6,100.0	5,977.2	6,034.6	6,001.2	23.8	17.6	-12.19	285.5	-2,238.4	1,239.9	1,203.6	36.25	34.199	
6,175.0	6,050.0	6,107.3	6,074.0	24.1	17.7	-12.37	285.5	-2,238.4	1,222.1	1,185.4	36.67	33.325	
6,200.0	6,074.2	6,131.6	6,098.2	24.2	17.7	-12.43	285.5	-2,238.4	1,216.2	1,179.4	36.81	33.038	
6,270.0	6,142.1	6,199.5	6,166.1	24.6	17.7	-12.60	285.5	-2,238.4	1,199.6	1,162.4	37.20	32.247	
6,300.0	6,171.2	6,228.6	6,195.2	24.7	17.7	-12.68	285.5	-2,238.4	1,192.5	1,155.2	37.37	31.913	
6,365.0	6,234.3	6,291.7	6,258.3	25.0	17.8	-12.85	285.5	-2,238.4	1,177.2	1,139.4	37.73	31.200	
6,400.0	6,268.3	6,325.7	6,292.3	25.2	17.8	-12.94	285.5	-2,238.4	1,168.9	1,131.0	37.93	30.821	
6,460.0	6,326.5	6,383.9	6,350.5	25.5	17.8	-13.10	285.5	-2,238.4	1,154.7	1,116.5	38.26	30.182	
6,500.0	6,365.3	6,422.7	6,389.3	25.7	17.9	-13.21	285.5	-2,238.4	1,145.3	1,106.8	38.48	29.762	
6,555.0	6,418.7	6,476.1	6,442.7	25.9	17.9	-13.36	285.5	-2,238.4	1,132.3	1,093.5	38.79	29.193	
6,600.0	6,462.3	6,519.7	6,486.3	26.2	17.9	-13.49	285.5	-2,238.4	1,121.7	1,082.7	39.04	28.734	
6,650.0	6,510.8	6,568.2	6,534.8	26.4	17.9	-13.64	285.5	-2,238.4	1,109.9	1,070.6	39.32	28.231	
6,700.0	6,559.4	6,616.7	6,583.4	26.6	18.0	-13.79	285.5	-2,238.4	1,098.2	1,058.6	39.59	27.735	
6,745.0	6,603.0	6,660.4	6,627.0	26.9	18.0	-13.92	285.5	-2,238.4	1,087.6	1,047.7	39.84	27.298	
6,772.7	6,629.9	6,687.3	6,653.9	27.0	18.0	-14.01	285.5	-2,238.4	1,081.1	1,041.1	39.99	27.032	
6,800.0	6,656.4	6,713.8	6,680.4	27.1	18.0	-14.06	285.5	-2,238.4	1,074.8	1,034.6	40.14	26.777	
6,840.0	6,695.4	6,752.8	6,719.4	27.3	18.0	-14.13	285.5	-2,238.4	1,066.0	1,025.6	40.36	26.411	
6,900.0	6,754.1	6,811.5	6,778.1	27.6	18.1	-14.24	285.5	-2,238.4	1,053.8	1,013.1	40.70	25.895	
6,935.0	6,788.4	6,845.8	6,812.4	27.8	18.1	-14.30	285.5	-2,238.4	1,047.3	1,006.4	40.89	25.615	
7,000.0	6,852.4	6,909.8	6,876.4	28.1	18.1	-14.40	285.5	-2,238.4	1,036.2	995.0	41.24	25.130	
7,030.0	6,882.0	6,939.4	6,906.0	28.2	18.2	-14.44	285.5	-2,238.4	1,031.6	990.2	41.39	24.924	
7,100.0	6,951.3	7,008.7	6,975.3	28.5	18.2	-14.53	285.5	-2,238.4	1,022.0	980.2	41.75	24.478	
7,125.0	6,976.1	7,033.5	7,000.1	28.6	18.2	-14.56	285.5	-2,238.4	1,019.0	977.1	41.87	24.334	
7,200.0	7,050.7	7,108.1	7,074.7	29.0	18.3	-14.63	285.5	-2,238.4	1,011.1	968.9	42.24	23.937	
7,220.0	7,070.6	7,128.0	7,094.6	29.0	18.3	-14.65	285.5	-2,238.4	1,009.3	967.0	42.33	23.844	
7,300.0	7,150.4	7,207.7	7,174.4	29.3	18.3	-14.71	285.5	-2,238.4	1,003.6	960.9	42.69	23.507	
7,315.0	7,165.3	7,222.7	7,189.3	29.4	18.3	-14.71	285.5	-2,238.4	1,002.8	960.0	42.75	23.454	
7,400.0	7,250.3	7,307.7	7,274.3	29.7	18.4	-14.75	285.5	-2,238.4	999.4	956.4	43.10	23.191	
7,410.0	7,260.3	7,317.6	7,284.3	29.7	18.4	-14.75	285.5	-2,238.4	999.2	956.1	43.12	23.174	
7,472.7	7,323.0	7,380.4	7,347.0	29.8	18.4	-91.02	285.5	-2,238.4	998.6	955.3	43.26	23.085	
7,500.0	7,350.3	7,407.6	7,374.3	29.8	18.4	-91.02	285.5	-2,238.4	998.6	955.3	43.28	23.073	
7,505.0	7,355.3	7,412.6	7,379.3	29.8	18.4	-91.02	285.5	-2,238.4	998.6	955.3	43.28	23.071	
7,600.0	7,450.3	7,507.6	7,474.3	29.8	18.5	-91.02	285.5	-2,238.4	998.6	955.2	43.38	23.020	
7,695.0	7,545.3	7,602.6	7,569.3	29.8	18.5	-91.02	285.5	-2,238.4	998.6	955.1	43.48	22.968	
7,700.0	7,550.3	7,607.6	7,574.3	29.8	18.5	-91.02	285.5	-2,238.4	998.6	955.1	43.48	22.966	
7,790.0	7,640.3	7,697.6	7,664.3	29.9	18.6	-91.02	285.5	-2,238.4	998.6	955.0	43.57	22.917	
7,800.0	7,650.3	7,707.6	7,674.3	29.9	18.6	-91.02	285.5	-2,238.4	998.6	955.0	43.58	22.912	
7,885.0	7,735.3	7,792.6	7,759.3	29.9	18.6	-91.02	285.5	-2,238.4	998.6	954.9	43.67	22.866	
7,900.0	7,750.3	7,807.6	7,774.3	29.9	18.7	-91.02	285.5	-2,238.4	998.6	954.9	43.68	22.858	
7,980.0	7,830.3	7,887.6	7,854.3	29.9	18.7	-91.02	285.5	-2,238.4	998.6	954.8	43.77	22.816	
8,000.0	7,850.3	7,907.6	7,874.3	29.9	18.7	-91.02	285.5	-2,238.4	998.6	954.8	43.79	22.805	
8,075.0	7,925.3	7,982.6	7,949.3	30.0	18.8	-91.02	285.5	-2,238.4	998.6	954.7	43.86	22.765	
8,100.0	7,950.3	8,007.6	7,974.3	30.0	18.8	-91.02	285.5	-2,238.4	998.6	954.7	43.89	22.752	
8,170.0	8,020.3	8,077.6	8,044.3	30.0	18.8	-91.02	285.5	-2,238.4	998.6	954.6	43.96	22.714	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured 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)		
8,200.0	8,050.3	8,107.6	8,074.3	30.0	18.8	-91.02	285.5	-2,238.4	998.6	954.6	43.99	22.698	
8,265.0	8,115.3	8,172.6	8,139.3	30.0	18.9	-91.02	285.5	-2,238.4	998.6	954.5	44.06	22.664	
8,300.0	8,150.3	8,207.6	8,174.3	30.0	18.9	-91.02	285.5	-2,238.4	998.6	954.5	44.10	22.645	
8,360.0	8,210.3	8,267.6	8,234.3	30.0	18.9	-91.02	285.5	-2,238.4	998.6	954.4	44.16	22.613	
8,400.0	8,250.3	8,307.6	8,274.3	30.1	19.0	-91.02	285.5	-2,238.4	998.6	954.4	44.20	22.592	
8,455.0	8,305.3	8,362.6	8,329.3	30.1	19.0	-91.02	285.5	-2,238.4	998.6	954.3	44.26	22.563	
8,500.0	8,350.3	8,407.6	8,374.3	30.1	19.0	-91.02	285.5	-2,238.4	998.6	954.3	44.30	22.541 CC	
8,529.8	8,380.0	8,436.5	8,403.1	30.1	19.0	-91.03	285.2	-2,238.4	998.6	954.3	44.31	22.536	
8,550.0	8,400.3	8,455.8	8,422.4	30.1	19.0	88.45	284.2	-2,238.4	998.6	954.3	44.32	22.532	
8,600.0	8,450.1	8,503.4	8,469.7	30.1	19.1	88.37	279.1	-2,238.5	998.6	954.3	44.34	22.522	
8,645.0	8,494.5	8,546.2	8,511.8	30.1	19.1	88.30	271.1	-2,238.5	998.7	954.3	44.36	22.515	
8,650.0	8,499.4	8,550.0	8,515.4	30.1	19.1	88.30	270.2	-2,238.5	998.7	954.3	44.36	22.512	
8,700.0	8,547.8	8,598.4	8,562.0	30.1	19.2	88.23	257.2	-2,238.7	998.7	954.3	44.37	22.508	
8,740.0	8,585.6	8,636.3	8,597.6	30.1	19.2	88.19	244.2	-2,238.8	998.7	954.4	44.38	22.504	
8,750.0	8,594.9	8,645.8	8,606.4	30.1	19.2	88.19	240.6	-2,238.8	998.7	954.4	44.38	22.504	
8,800.0	8,640.4	8,693.1	8,649.2	30.1	19.3	88.15	220.5	-2,239.0	998.8	954.4	44.39	22.500	
8,835.0	8,671.0	8,726.2	8,678.1	30.1	19.3	88.13	204.3	-2,239.1	998.8	954.4	44.39	22.498	
8,850.0	8,683.8	8,740.4	8,690.1	30.1	19.3	88.13	196.9	-2,239.2	998.8	954.4	44.40	22.498	
8,900.0	8,725.0	8,787.6	8,729.0	30.2	19.4	88.12	170.0	-2,239.4	998.8	954.4	44.40	22.495	
8,930.0	8,748.5	8,816.0	8,751.2	30.2	19.4	88.12	152.4	-2,239.6	998.8	954.4	44.41	22.493	
8,950.0	8,763.6	8,834.9	8,765.5	30.2	19.4	88.12	140.0	-2,239.7	998.8	954.4	44.41	22.491	
9,000.0	8,799.2	8,882.2	8,799.5	30.2	19.5	88.14	107.1	-2,240.0	998.8	954.4	44.42	22.486	
9,025.0	8,815.9	8,905.8	8,815.4	30.2	19.5	88.16	89.7	-2,240.1	998.9	954.4	44.43	22.482	
9,050.0	8,831.7	8,929.5	8,830.6	30.2	19.5	88.18	71.5	-2,240.3	998.9	954.4	44.44	22.478	
9,100.0	8,860.7	8,976.8	8,858.7	30.2	19.6	88.22	33.4	-2,240.6	998.9	954.4	44.46	22.467	
9,120.0	8,871.3	8,995.8	8,869.1	30.2	19.6	88.24	17.5	-2,240.8	998.8	954.4	44.47	22.461	
9,150.0	8,886.0	9,024.3	8,883.6	30.3	19.6	88.28	-6.9	-2,241.0	998.8	954.4	44.49	22.451	
9,200.0	8,907.5	9,071.8	8,905.2	30.3	19.7	88.35	-49.3	-2,241.4	998.8	954.3	44.53	22.431	
9,215.0	8,913.2	9,086.1	8,910.9	30.3	19.7	88.37	-62.3	-2,241.5	998.8	954.3	44.54	22.424	
9,250.0	8,925.0	9,119.4	8,923.1	30.3	19.7	88.43	-93.4	-2,241.8	998.8	954.2	44.58	22.405	
9,300.0	8,938.4	9,167.2	8,937.4	30.4	19.8	88.53	-138.9	-2,242.2	998.8	954.2	44.64	22.374	
9,310.0	8,940.5	9,176.7	8,939.8	30.4	19.8	88.55	-148.2	-2,242.2	998.8	954.1	44.66	22.367	
9,350.0	8,947.5	9,215.1	8,947.9	30.4	19.8	88.63	-185.6	-2,242.6	998.8	954.1	44.72	22.337	
9,400.0	8,952.2	9,263.1	8,954.4	30.5	19.8	88.75	-233.2	-2,243.0	998.8	954.0	44.80	22.293	
9,405.0	8,952.5	9,267.9	8,954.9	30.5	19.8	88.76	-238.0	-2,243.0	998.8	954.0	44.81	22.288	
9,429.3	8,953.0	9,291.3	8,956.4	30.5	19.9	88.82	-261.4	-2,243.3	998.8	953.9	44.86	22.265	
9,438.3	8,953.0	9,300.0	8,956.7	30.5	19.9	88.84	-270.0	-2,243.3	998.8	953.9	44.88	22.256	
9,500.0	8,953.1	9,361.1	8,957.1	30.6	19.9	88.85	-331.1	-2,243.9	998.8	953.8	45.03	22.178	
9,595.0	8,953.1	9,456.1	8,957.2	30.7	20.0	88.85	-426.1	-2,244.7	998.8	953.5	45.33	22.033	
9,600.0	8,953.1	9,461.1	8,957.2	30.7	20.0	88.85	-431.1	-2,244.8	998.8	953.5	45.35	22.025	
9,690.0	8,953.2	9,551.1	8,957.3	30.9	20.0	88.86	-521.1	-2,245.6	998.9	953.2	45.68	21.866	
9,700.0	8,953.2	9,561.1	8,957.3	30.9	20.0	88.86	-531.1	-2,245.6	998.9	953.2	45.72	21.848	
9,785.0	8,953.3	9,646.1	8,957.4	31.0	20.1	88.86	-616.1	-2,246.4	999.0	952.9	46.08	21.680	
9,800.0	8,953.3	9,661.1	8,957.4	31.1	20.1	88.86	-631.1	-2,246.5	999.0	952.8	46.14	21.649	
9,880.0	8,953.4	9,741.1	8,957.5	31.2	20.2	88.86	-711.1	-2,247.2	999.0	952.5	46.52	21.475	
9,900.0	8,953.4	9,761.1	8,957.5	31.2	20.2	88.86	-731.1	-2,247.4	999.0	952.4	46.62	21.431	
9,975.0	8,953.4	9,836.1	8,957.6	31.4	20.3	88.86	-806.1	-2,248.1	999.1	952.1	47.00	21.255	
10,000.0	8,953.5	9,861.1	8,957.6	31.5	20.3	88.86	-831.1	-2,248.3	999.1	951.9	47.14	21.195	
10,070.0	8,953.5	9,931.1	8,957.7	31.6	20.4	88.86	-901.1	-2,248.9	999.1	951.6	47.53	21.021	
10,100.0	8,953.5	9,961.1	8,957.7	31.7	20.5	88.86	-931.1	-2,249.2	999.1	951.4	47.70	20.945	
10,165.0	8,953.6	10,026.1	8,957.8	31.8	20.6	88.87	-996.1	-2,249.8	999.2	951.1	48.10	20.774	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error: 3.0 usft					
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		
10,200.0	8,953.6	10,061.1	8,957.9	31.9	20.6	88.87	-1,031.1	-2,250.1	999.2	950.9	48.31	20.681			
10,260.0	8,953.7	10,121.1	8,957.9	32.1	20.7	88.87	-1,091.1	-2,250.6	999.2	950.5	48.70	20.517			
10,300.0	8,953.7	10,161.1	8,958.0	32.2	20.8	88.87	-1,131.1	-2,251.0	999.3	950.3	48.97	20.407			
10,355.0	8,953.7	10,216.1	8,958.0	32.3	20.9	88.87	-1,186.1	-2,251.5	999.3	949.9	49.34	20.251			
10,400.0	8,953.8	10,261.1	8,958.1	32.4	21.0	88.87	-1,231.1	-2,251.9	999.3	949.7	49.66	20.123			
10,450.0	8,953.8	10,311.1	8,958.1	32.6	21.1	88.87	-1,281.1	-2,252.3	999.3	949.3	50.02	19.979			
10,500.0	8,953.9	10,361.1	8,958.2	32.7	21.2	88.87	-1,331.1	-2,252.7	999.4	949.0	50.39	19.833			
10,545.0	8,953.9	10,406.1	8,958.2	32.8	21.3	88.87	-1,376.1	-2,253.1	999.4	948.7	50.73	19.701			
10,600.0	8,953.9	10,461.1	8,958.3	33.0	21.4	88.87	-1,431.1	-2,253.6	999.4	948.3	51.15	19.538			
10,640.0	8,954.0	10,501.1	8,958.4	33.1	21.6	88.88	-1,471.1	-2,254.0	999.5	948.0	51.47	19.418			
10,700.0	8,954.0	10,561.1	8,958.4	33.3	21.7	88.88	-1,531.1	-2,254.5	999.5	947.5	51.95	19.238			
10,735.0	8,954.0	10,596.1	8,958.5	33.4	21.8	88.88	-1,566.1	-2,254.8	999.5	947.3	52.24	19.133			
10,800.0	8,954.1	10,661.1	8,958.5	33.6	22.0	88.88	-1,631.1	-2,255.4	999.5	946.8	52.78	18.936			
10,830.0	8,954.1	10,691.1	8,958.6	33.7	22.1	88.88	-1,661.1	-2,255.7	999.6	946.5	53.04	18.845			
10,900.0	8,954.2	10,761.1	8,958.7	34.0	22.4	88.88	-1,731.1	-2,256.3	999.6	946.0	53.65	18.633			
10,925.0	8,954.2	10,786.1	8,958.7	34.0	22.4	88.88	-1,756.1	-2,256.5	999.6	945.8	53.87	18.557			
11,000.0	8,954.3	10,861.1	8,958.8	34.3	22.7	88.88	-1,831.1	-2,257.2	999.7	945.1	54.54	18.330			
11,020.0	8,954.3	10,881.1	8,958.8	34.4	22.8	88.88	-1,851.1	-2,257.4	999.7	945.0	54.72	18.269			
11,100.0	8,954.3	10,961.1	8,958.9	34.7	23.1	88.88	-1,931.1	-2,258.1	999.7	944.3	55.45	18.028			
11,115.0	8,954.4	10,976.1	8,958.9	34.7	23.2	88.88	-1,946.1	-2,258.2	999.7	944.1	55.59	17.983			
11,200.0	8,954.4	11,061.1	8,959.0	35.0	23.5	88.89	-2,031.0	-2,258.9	999.8	943.4	56.40	17.727			
11,210.0	8,954.4	11,071.1	8,959.0	35.1	23.6	88.89	-2,041.0	-2,259.0	999.8	943.3	56.49	17.697			
11,300.0	8,954.5	11,161.1	8,959.1	35.4	24.0	88.89	-2,131.0	-2,259.8	999.8	942.5	57.36	17.430			
11,305.0	8,954.5	11,166.1	8,959.1	35.4	24.0	88.89	-2,136.0	-2,259.9	999.8	942.4	57.41	17.415			
11,400.0	8,954.6	11,261.1	8,959.2	35.8	24.5	88.89	-2,231.0	-2,260.7	999.9	941.5	58.36	17.135			
11,495.0	8,954.7	11,356.1	8,959.3	36.2	24.9	88.89	-2,326.0	-2,261.6	1,000.0	940.6	59.32	16.858			
11,500.0	8,954.7	11,361.1	8,959.3	36.2	24.9	88.89	-2,331.0	-2,261.6	1,000.0	940.6	59.37	16.843			
11,590.0	8,954.7	11,451.1	8,959.4	36.6	25.4	88.89	-2,421.0	-2,262.4	1,000.0	939.7	60.30	16.585			
11,600.0	8,954.7	11,461.1	8,959.4	36.6	25.5	88.89	-2,431.0	-2,262.5	1,000.0	939.6	60.40	16.556			
11,685.0	8,954.8	11,546.1	8,959.5	37.0	25.9	88.90	-2,516.0	-2,263.2	1,000.1	938.8	61.30	16.316			
11,700.0	8,954.8	11,561.1	8,959.6	37.1	26.0	88.90	-2,531.0	-2,263.4	1,000.1	938.6	61.45	16.274			
11,780.0	8,954.9	11,641.1	8,959.7	37.4	26.4	88.90	-2,611.0	-2,264.1	1,000.1	937.8	62.31	16.051			
11,800.0	8,954.9	11,661.1	8,959.7	37.5	26.5	88.90	-2,631.0	-2,264.3	1,000.1	937.6	62.53	15.996			
11,875.0	8,955.0	11,736.1	8,959.8	37.8	27.0	88.90	-2,706.0	-2,264.9	1,000.2	936.8	63.34	15.790			
11,900.0	8,955.0	11,761.1	8,959.8	37.9	27.1	88.90	-2,731.0	-2,265.2	1,000.2	936.6	63.61	15.723			
11,970.0	8,955.0	11,831.1	8,959.9	38.3	27.5	88.90	-2,801.0	-2,265.8	1,000.2	935.8	64.39	15.535			
12,000.0	8,955.1	11,861.1	8,959.9	38.4	27.7	88.90	-2,831.0	-2,266.0	1,000.3	935.5	64.72	15.455			
12,065.0	8,955.1	11,926.1	8,960.0	38.7	28.1	88.90	-2,896.0	-2,266.6	1,000.3	934.8	65.45	15.284			
12,100.0	8,955.1	11,961.1	8,960.0	38.9	28.3	88.90	-2,931.0	-2,266.9	1,000.3	934.5	65.84	15.193			
12,160.0	8,955.2	12,021.1	8,960.1	39.2	28.7	88.91	-2,991.0	-2,267.5	1,000.3	933.8	66.52	15.038			
12,200.0	8,955.2	12,061.1	8,960.1	39.3	28.9	88.91	-3,031.0	-2,267.8	1,000.4	933.4	66.98	14.936			
12,255.0	8,955.3	12,116.1	8,960.2	39.6	29.2	88.91	-3,086.0	-2,268.3	1,000.4	932.8	67.61	14.796			
12,300.0	8,955.3	12,161.1	8,960.2	39.8	29.5	88.91	-3,131.0	-2,268.7	1,000.4	932.3	68.13	14.684			
12,350.0	8,955.3	12,211.1	8,960.3	40.1	29.8	88.91	-3,181.0	-2,269.1	1,000.5	931.7	68.71	14.560			
12,400.0	8,955.4	12,261.1	8,960.4	40.3	30.1	88.91	-3,231.0	-2,269.6	1,000.5	931.2	69.30	14.438			
12,445.0	8,955.4	12,306.1	8,960.4	40.5	30.4	88.91	-3,276.0	-2,270.0	1,000.5	930.7	69.82	14.329			
12,500.0	8,955.5	12,361.1	8,960.5	40.8	30.8	88.91	-3,331.0	-2,270.5	1,000.5	930.1	70.47	14.197			
12,540.0	8,955.5	12,401.1	8,960.5	41.0	31.0	88.91	-3,371.0	-2,270.8	1,000.6	929.6	70.95	14.103			
12,600.0	8,955.6	12,461.1	8,960.6	41.3	31.4	88.91	-3,431.0	-2,271.4	1,000.6	928.9	71.66	13.962			
12,635.0	8,955.6	12,496.1	8,960.6	41.5	31.6	88.92	-3,466.0	-2,271.7	1,000.6	928.5	72.08	13.881			
12,700.0	8,955.6	12,561.1	8,960.7	41.8	32.1	88.92	-3,531.0	-2,272.3	1,000.7	927.8	72.87	13.733			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
12,730.0	8,955.7	12,591.1	8,960.7	42.0	32.3	88.92	-3,561.0	-2,272.5	1,000.7	927.5	73.23	13.665	
12,800.0	8,955.7	12,661.1	8,960.8	42.4	32.7	88.92	-3,631.0	-2,273.1	1,000.7	926.6	74.08	13.509	
12,825.0	8,955.7	12,686.1	8,960.8	42.5	32.9	88.92	-3,656.0	-2,273.4	1,000.7	926.4	74.39	13.453	
12,900.0	8,955.8	12,761.1	8,960.9	42.9	33.4	88.92	-3,731.0	-2,274.0	1,000.8	925.5	75.31	13.290	
12,920.0	8,955.8	12,781.1	8,961.0	43.0	33.5	88.92	-3,751.0	-2,274.2	1,000.8	925.2	75.55	13.246	
13,000.0	8,955.9	12,861.1	8,961.0	43.4	34.0	88.92	-3,831.0	-2,274.9	1,000.8	924.3	76.54	13.076	
13,015.0	8,955.9	12,876.1	8,961.1	43.5	34.1	88.92	-3,846.0	-2,275.0	1,000.8	924.1	76.73	13.044	
13,100.0	8,956.0	12,961.1	8,961.2	44.0	34.7	88.92	-3,931.0	-2,275.8	1,000.9	923.1	77.78	12.868	
13,110.0	8,956.0	12,971.1	8,961.2	44.0	34.8	88.92	-3,941.0	-2,275.9	1,000.9	923.0	77.91	12.847	
13,200.0	8,956.0	13,061.1	8,961.3	44.5	35.4	88.93	-4,031.0	-2,276.7	1,001.0	921.9	79.04	12.664	
13,205.0	8,956.0	13,066.1	8,961.3	44.6	35.4	88.93	-4,036.0	-2,276.7	1,001.0	921.9	79.10	12.654	
13,300.0	8,956.1	13,161.1	8,961.4	45.1	36.1	88.93	-4,131.0	-2,277.6	1,001.0	920.7	80.30	12.466	
13,395.0	8,956.2	13,256.1	8,961.5	45.6	36.7	88.93	-4,226.0	-2,278.4	1,001.1	919.6	81.51	12.282	
13,400.0	8,956.2	13,261.1	8,961.5	45.7	36.8	88.93	-4,231.0	-2,278.5	1,001.1	919.5	81.57	12.272	
13,490.0	8,956.3	13,351.1	8,961.6	46.2	37.4	88.93	-4,321.0	-2,279.3	1,001.1	918.4	82.72	12.102	
13,500.0	8,956.3	13,361.1	8,961.6	46.2	37.4	88.93	-4,331.0	-2,279.3	1,001.1	918.3	82.85	12.083	
13,585.0	8,956.3	13,446.1	8,961.7	46.7	38.0	88.93	-4,416.0	-2,280.1	1,001.2	917.2	83.95	11.926	
13,600.0	8,956.4	13,461.1	8,961.7	46.8	38.1	88.93	-4,431.0	-2,280.2	1,001.2	917.1	84.14	11.899	
13,680.0	8,956.4	13,541.1	8,961.8	47.3	38.7	88.94	-4,510.9	-2,280.9	1,001.2	916.1	85.18	11.755	
13,700.0	8,956.4	13,561.1	8,961.8	47.4	38.8	88.94	-4,530.9	-2,281.1	1,001.3	915.8	85.44	11.719	
13,775.0	8,956.5	13,636.1	8,961.9	47.8	39.3	88.94	-4,605.9	-2,281.8	1,001.3	914.9	86.41	11.587	
13,800.0	8,956.5	13,661.1	8,962.0	48.0	39.5	88.94	-4,630.9	-2,282.0	1,001.3	914.6	86.74	11.544	
13,870.0	8,956.6	13,731.1	8,962.0	48.4	40.0	88.94	-4,700.9	-2,282.6	1,001.3	913.7	87.65	11.424	
13,900.0	8,956.6	13,761.1	8,962.1	48.5	40.2	88.94	-4,730.9	-2,282.9	1,001.4	913.3	88.05	11.373	
13,965.0	8,956.6	13,826.1	8,962.2	48.9	40.7	88.94	-4,795.9	-2,283.5	1,001.4	912.5	88.90	11.264	
14,000.0	8,956.7	13,861.1	8,962.2	49.1	40.9	88.94	-4,830.9	-2,283.8	1,001.4	912.1	89.36	11.206	
14,060.0	8,956.7	13,921.1	8,962.3	49.5	41.3	88.94	-4,890.9	-2,284.3	1,001.5	911.3	90.16	11.108	
14,100.0	8,956.8	13,961.1	8,962.3	49.7	41.6	88.94	-4,930.9	-2,284.7	1,001.5	910.8	90.68	11.044	
14,155.0	8,956.8	14,016.1	8,962.4	50.1	42.0	88.95	-4,985.9	-2,285.2	1,001.5	910.1	91.41	10.956	
14,200.0	8,956.8	14,061.1	8,962.4	50.3	42.3	88.95	-5,030.9	-2,285.6	1,001.5	909.5	92.01	10.885	
14,250.0	8,956.9	14,111.1	8,962.5	50.6	42.7	88.95	-5,080.9	-2,286.0	1,001.6	908.9	92.68	10.807	
14,300.0	8,956.9	14,161.1	8,962.5	50.9	43.0	88.95	-5,130.9	-2,286.4	1,001.6	908.3	93.35	10.730	
14,345.0	8,957.0	14,206.1	8,962.6	51.2	43.4	88.95	-5,175.9	-2,286.8	1,001.6	907.7	93.95	10.661	
14,400.0	8,957.0	14,261.1	8,962.6	51.6	43.8	88.95	-5,230.9	-2,287.3	1,001.7	907.0	94.69	10.579	
14,440.0	8,957.0	14,301.1	8,962.7	51.8	44.0	88.95	-5,270.9	-2,287.7	1,001.7	906.5	95.22	10.519	
14,500.0	8,957.1	14,361.1	8,962.8	52.2	44.5	88.95	-5,330.9	-2,288.2	1,001.7	905.7	96.03	10.431	
14,535.0	8,957.1	14,396.1	8,962.8	52.4	44.7	88.95	-5,365.9	-2,288.5	1,001.7	905.2	96.50	10.380	
14,600.0	8,957.2	14,461.1	8,962.9	52.8	45.2	88.95	-5,430.9	-2,289.1	1,001.8	904.4	97.38	10.287	
14,630.0	8,957.2	14,491.1	8,962.9	53.0	45.4	88.95	-5,460.9	-2,289.4	1,001.8	904.0	97.79	10.245	
14,700.0	8,957.2	14,561.1	8,963.0	53.4	45.9	88.96	-5,530.9	-2,290.0	1,001.8	903.1	98.74	10.147	
14,725.0	8,957.3	14,586.1	8,963.0	53.6	46.1	88.96	-5,555.9	-2,290.2	1,001.9	902.8	99.07	10.112	
14,800.0	8,957.3	14,661.1	8,963.1	54.0	46.6	88.96	-5,630.9	-2,290.9	1,001.9	901.8	100.09	10.009	
14,820.0	8,957.3	14,681.1	8,963.1	54.2	46.8	88.96	-5,650.9	-2,291.1	1,001.9	901.5	100.37	9.982	
14,900.0	8,957.4	14,761.1	8,963.2	54.7	47.3	88.96	-5,730.9	-2,291.8	1,002.0	900.5	101.46	9.875	
14,915.0	8,957.4	14,776.1	8,963.2	54.8	47.5	88.96	-5,745.9	-2,291.9	1,002.0	900.3	101.66	9.856	
15,000.0	8,957.5	14,861.1	8,963.3	55.3	48.1	88.96	-5,830.9	-2,292.7	1,002.0	899.2	102.83	9.745	
15,010.0	8,957.5	14,871.1	8,963.3	55.4	48.1	88.96	-5,840.9	-2,292.7	1,002.0	899.1	102.96	9.732	
15,100.0	8,957.6	14,961.1	8,963.4	56.0	48.8	88.96	-5,930.9	-2,293.5	1,002.1	897.9	104.20	9.617	
15,105.0	8,957.6	14,966.1	8,963.5	56.0	48.8	88.96	-5,935.9	-2,293.6	1,002.1	897.8	104.27	9.610	
15,200.0	8,957.6	15,061.1	8,963.6	56.6	49.5	88.97	-6,030.9	-2,294.4	1,002.1	896.6	105.58	9.492	
15,295.0	8,957.7	15,156.1	8,963.7	57.2	50.2	88.97	-6,125.9	-2,295.3	1,002.2	895.3	106.89	9.376	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
15,300.0	8,957.7	15,161.1	8,963.7	57.2	50.2	88.97	-6,130.9	-2,295.3	1,002.2	895.2	106.96	9.370	
15,390.0	8,957.8	15,251.1	8,963.8	57.8	50.9	88.97	-6,220.9	-2,296.1	1,002.2	894.0	108.20	9.262	
15,400.0	8,957.8	15,261.1	8,963.8	57.9	51.0	88.97	-6,230.9	-2,296.2	1,002.2	893.9	108.34	9.251	
15,485.0	8,957.9	15,346.1	8,963.9	58.4	51.6	88.97	-6,315.9	-2,297.0	1,002.3	892.8	109.52	9.151	
15,500.0	8,957.9	15,361.1	8,963.9	58.5	51.7	88.97	-6,330.9	-2,297.1	1,002.3	892.6	109.73	9.134	
15,580.0	8,957.9	15,441.1	8,964.0	59.1	52.3	88.97	-6,410.9	-2,297.8	1,002.4	891.5	110.84	9.043	
15,600.0	8,958.0	15,461.1	8,964.0	59.2	52.4	88.97	-6,430.9	-2,298.0	1,002.4	891.2	111.12	9.020	
15,675.0	8,958.0	15,536.1	8,964.1	59.7	53.0	88.98	-6,505.9	-2,298.6	1,002.4	890.2	112.17	8.937	
15,700.0	8,958.0	15,561.1	8,964.1	59.8	53.2	88.98	-6,530.9	-2,298.9	1,002.4	889.9	112.52	8.909	
15,770.0	8,958.1	15,631.1	8,964.2	60.3	53.7	88.98	-6,600.9	-2,299.5	1,002.5	889.0	113.50	8.832	
15,800.0	8,958.1	15,661.1	8,964.2	60.5	53.9	88.98	-6,630.9	-2,299.7	1,002.5	888.6	113.92	8.800	
15,865.0	8,958.2	15,726.1	8,964.3	60.9	54.4	88.98	-6,695.9	-2,300.3	1,002.5	887.7	114.83	8.731	
15,900.0	8,958.2	15,761.1	8,964.4	61.2	54.6	88.98	-6,730.9	-2,300.6	1,002.5	887.2	115.32	8.694	
15,960.0	8,958.3	15,821.1	8,964.4	61.6	55.1	88.98	-6,790.9	-2,301.2	1,002.6	886.4	116.16	8.631	
16,000.0	8,958.3	15,861.1	8,964.5	61.8	55.4	88.98	-6,830.9	-2,301.5	1,002.6	885.9	116.72	8.590	
16,055.0	8,958.3	15,916.1	8,964.5	62.2	55.8	88.98	-6,885.9	-2,302.0	1,002.6	885.1	117.50	8.533	
16,100.0	8,958.4	15,961.1	8,964.6	62.5	56.1	88.98	-6,930.9	-2,302.4	1,002.7	884.5	118.13	8.488	
16,150.0	8,958.4	16,011.1	8,964.6	62.8	56.5	88.99	-6,980.8	-2,302.8	1,002.7	883.9	118.84	8.438	
16,200.0	8,958.4	16,061.1	8,964.7	63.1	56.8	88.99	-7,030.8	-2,303.3	1,002.7	883.2	119.54	8.388	
16,245.0	8,958.5	16,106.1	8,964.8	63.5	57.2	88.99	-7,075.8	-2,303.7	1,002.7	882.6	120.18	8.344	
16,300.0	8,958.5	16,161.1	8,964.8	63.8	57.6	88.99	-7,130.8	-2,304.2	1,002.8	881.8	120.95	8.290	
16,340.0	8,958.6	16,201.1	8,964.9	64.1	57.9	88.99	-7,170.8	-2,304.5	1,002.8	881.3	121.52	8.252	
16,400.0	8,958.6	16,261.1	8,964.9	64.5	58.3	88.99	-7,230.8	-2,305.1	1,002.8	880.5	122.37	8.195	
16,435.0	8,958.6	16,296.1	8,965.0	64.7	58.6	88.99	-7,265.8	-2,305.4	1,002.9	880.0	122.87	8.162	
16,500.0	8,958.7	16,361.1	8,965.0	65.2	59.0	88.99	-7,330.8	-2,306.0	1,002.9	879.1	123.79	8.102	
16,530.0	8,958.7	16,391.1	8,965.1	65.4	59.3	88.99	-7,360.8	-2,306.2	1,002.9	878.7	124.22	8.074	
16,600.0	8,958.8	16,461.1	8,965.2	65.8	59.8	88.99	-7,430.8	-2,306.8	1,003.0	877.7	125.21	8.010	
16,625.0	8,958.8	16,486.1	8,965.2	66.0	60.0	88.99	-7,455.8	-2,307.1	1,003.0	877.4	125.57	7.988	
16,700.0	8,958.8	16,561.1	8,965.3	66.5	60.5	89.00	-7,530.8	-2,307.7	1,003.0	876.4	126.63	7.921	
16,720.0	8,958.9	16,581.1	8,965.3	66.7	60.7	89.00	-7,550.8	-2,307.9	1,003.0	876.1	126.92	7.903	
16,800.0	8,958.9	16,661.1	8,965.4	67.2	61.3	89.00	-7,630.8	-2,308.6	1,003.1	875.0	128.06	7.833	
16,815.0	8,958.9	16,676.1	8,965.4	67.3	61.4	89.00	-7,645.8	-2,308.7	1,003.1	874.8	128.27	7.820	
16,900.0	8,959.0	16,761.1	8,965.5	67.9	62.0	89.00	-7,730.8	-2,309.5	1,003.1	873.6	129.49	7.747	
16,910.0	8,959.0	16,771.1	8,965.5	67.9	62.1	89.00	-7,740.8	-2,309.6	1,003.1	873.5	129.63	7.738	
17,000.0	8,959.1	16,861.1	8,965.6	68.6	62.7	89.00	-7,830.8	-2,310.4	1,003.2	872.3	130.92	7.663	
17,005.0	8,959.1	16,866.1	8,965.6	68.6	62.8	89.00	-7,835.8	-2,310.4	1,003.2	872.2	130.99	7.659	
17,100.0	8,959.2	16,961.1	8,965.7	69.2	63.5	89.00	-7,930.8	-2,311.3	1,003.2	870.9	132.35	7.580	
17,195.0	8,959.2	17,056.1	8,965.8	69.9	64.2	89.01	-8,025.8	-2,312.1	1,003.3	869.6	133.71	7.503	
17,200.0	8,959.3	17,061.1	8,965.8	69.9	64.2	89.01	-8,030.8	-2,312.2	1,003.3	869.5	133.78	7.499	
17,290.0	8,959.3	17,151.1	8,966.0	70.6	64.9	89.01	-8,120.8	-2,313.0	1,003.4	868.3	135.08	7.428	
17,300.0	8,959.3	17,161.1	8,966.0	70.6	65.0	89.01	-8,130.8	-2,313.0	1,003.4	868.1	135.22	7.420	
17,385.0	8,959.4	17,246.1	8,966.1	71.2	65.6	89.01	-8,215.8	-2,313.8	1,003.4	867.0	136.44	7.354	
17,400.0	8,959.4	17,261.1	8,966.1	71.3	65.7	89.01	-8,230.8	-2,313.9	1,003.4	866.8	136.66	7.343	
17,480.0	8,959.5	17,341.1	8,966.2	71.9	66.3	89.01	-8,310.8	-2,314.6	1,003.5	865.7	137.81	7.281	
17,500.0	8,959.5	17,361.1	8,966.2	72.0	66.4	89.01	-8,330.8	-2,314.8	1,003.5	865.4	138.10	7.266	
17,575.0	8,959.6	17,436.1	8,966.3	72.5	67.0	89.01	-8,405.8	-2,315.5	1,003.5	864.3	139.18	7.210	
17,600.0	8,959.6	17,461.1	8,966.3	72.7	67.2	89.01	-8,430.8	-2,315.7	1,003.5	864.0	139.54	7.192	
17,670.0	8,959.6	17,531.1	8,966.4	73.2	67.7	89.02	-8,500.8	-2,316.3	1,003.6	863.0	140.55	7.140	
17,700.0	8,959.7	17,561.1	8,966.4	73.4	67.9	89.02	-8,530.8	-2,316.6	1,003.6	862.6	140.99	7.118	
17,765.0	8,959.7	17,626.1	8,966.5	73.8	68.4	89.02	-8,595.8	-2,317.2	1,003.6	861.7	141.92	7.072	
17,800.0	8,959.7	17,661.1	8,966.5	74.1	68.7	89.02	-8,630.8	-2,317.5	1,003.7	861.2	142.43	7.047	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
17,860.0	8,959.8	17,721.1	8,966.6	74.5	69.1	89.02	-8,690.8	-2,318.0	1,003.7	860.4	143.30	7.004
17,900.0	8,959.8	17,761.1	8,966.6	74.8	69.4	89.02	-8,730.8	-2,318.4	1,003.7	859.8	143.88	6.976
17,955.0	8,959.9	17,816.1	8,966.7	75.2	69.8	89.02	-8,785.8	-2,318.9	1,003.7	859.1	144.67	6.938
18,000.0	8,959.9	17,861.1	8,966.8	75.5	70.2	89.02	-8,830.8	-2,319.3	1,003.8	858.4	145.33	6.907
18,050.0	8,959.9	17,911.1	8,966.8	75.8	70.5	89.02	-8,880.8	-2,319.7	1,003.8	857.8	146.05	6.873
18,100.0	8,960.0	17,961.1	8,966.9	76.2	70.9	89.02	-8,930.8	-2,320.1	1,003.8	857.1	146.78	6.839
18,145.0	8,960.0	18,006.1	8,966.9	76.5	71.3	89.02	-8,975.8	-2,320.5	1,003.9	856.4	147.43	6.809
18,200.0	8,960.1	18,061.1	8,967.0	76.9	71.7	89.03	-9,030.8	-2,321.0	1,003.9	855.7	148.23	6.773
18,240.0	8,960.1	18,101.1	8,967.0	77.2	72.0	89.03	-9,070.8	-2,321.4	1,003.9	855.1	148.81	6.746
18,300.0	8,960.1	18,161.1	8,967.1	77.6	72.4	89.03	-9,130.8	-2,321.9	1,004.0	854.3	149.68	6.707
18,335.0	8,960.2	18,196.1	8,967.1	77.8	72.7	89.03	-9,165.8	-2,322.2	1,004.0	853.8	150.19	6.685
18,400.0	8,960.2	18,261.1	8,967.2	78.3	73.2	89.03	-9,230.8	-2,322.8	1,004.0	852.9	151.14	6.643
18,430.0	8,960.2	18,291.1	8,967.3	78.5	73.4	89.03	-9,260.8	-2,323.1	1,004.0	852.5	151.57	6.624
18,500.0	8,960.3	18,361.1	8,967.3	79.0	73.9	89.03	-9,330.8	-2,323.7	1,004.1	851.5	152.59	6.580
18,525.0	8,960.3	18,386.1	8,967.4	79.2	74.1	89.03	-9,355.8	-2,323.9	1,004.1	851.1	152.96	6.564
18,600.0	8,960.4	18,461.1	8,967.4	79.7	74.7	89.03	-9,430.8	-2,324.6	1,004.1	850.1	154.05	6.518
18,620.0	8,960.4	18,481.1	8,967.5	79.8	74.8	89.03	-9,450.8	-2,324.8	1,004.1	849.8	154.34	6.506
18,700.0	8,960.5	18,561.1	8,967.6	80.4	75.4	89.04	-9,530.7	-2,325.5	1,004.2	848.7	155.51	6.457
18,715.0	8,960.5	18,576.1	8,967.6	80.5	75.5	89.04	-9,545.7	-2,325.6	1,004.2	848.5	155.73	6.448
18,800.0	8,960.5	18,661.1	8,967.7	81.1	76.2	89.04	-9,630.7	-2,326.4	1,004.2	847.3	156.97	6.398
18,810.0	8,960.5	18,671.1	8,967.7	81.2	76.2	89.04	-9,640.7	-2,326.4	1,004.3	847.1	157.12	6.392
18,900.0	8,960.6	18,761.1	8,967.8	81.8	76.9	89.04	-9,730.7	-2,327.2	1,004.3	845.9	158.43	6.339
18,905.0	8,960.6	18,766.1	8,967.8	81.8	76.9	89.04	-9,735.7	-2,327.3	1,004.3	845.8	158.50	6.336
19,000.0	8,960.7	18,861.1	8,967.9	82.5	77.6	89.04	-9,830.7	-2,328.1	1,004.4	844.5	159.89	6.281
19,095.0	8,960.8	18,956.1	8,968.0	83.2	78.4	89.04	-9,925.7	-2,329.0	1,004.4	843.1	161.28	6.228
19,100.0	8,960.8	18,961.1	8,968.0	83.2	78.4	89.04	-9,930.7	-2,329.0	1,004.4	843.1	161.36	6.225
19,190.0	8,960.9	19,051.1	8,968.1	83.9	79.1	89.05	-10,020.7	-2,329.8	1,004.5	841.8	162.68	6.175
19,200.0	8,960.9	19,061.1	8,968.1	83.9	79.1	89.05	-10,030.7	-2,329.9	1,004.5	841.7	162.82	6.169
19,285.0	8,960.9	19,146.1	8,968.2	84.6	79.8	89.05	-10,115.7	-2,330.7	1,004.5	840.5	164.07	6.123
19,300.0	8,960.9	19,161.1	8,968.2	84.7	79.9	89.05	-10,130.7	-2,330.8	1,004.5	840.3	164.29	6.114
19,380.0	8,961.0	19,241.1	8,968.3	85.2	80.5	89.05	-10,210.7	-2,331.5	1,004.6	839.1	165.46	6.071
19,400.0	8,961.0	19,261.1	8,968.4	85.4	80.6	89.05	-10,230.7	-2,331.7	1,004.6	838.8	165.76	6.061
19,475.0	8,961.1	19,336.1	8,968.4	85.9	81.2	89.05	-10,305.7	-2,332.3	1,004.6	837.8	166.86	6.021
19,500.0	8,961.1	19,361.1	8,968.5	86.1	81.4	89.05	-10,330.7	-2,332.6	1,004.7	837.4	167.22	6.008
19,570.0	8,961.2	19,431.1	8,968.6	86.6	81.9	89.05	-10,400.7	-2,333.2	1,004.7	836.4	168.25	5.971
19,600.0	8,961.2	19,461.1	8,968.6	86.8	82.2	89.05	-10,430.7	-2,333.4	1,004.7	836.0	168.69	5.956
19,665.0	8,961.2	19,526.1	8,968.7	87.3	82.6	89.06	-10,495.7	-2,334.0	1,004.8	835.1	169.65	5.923
19,700.0	8,961.3	19,561.1	8,968.7	87.5	82.9	89.06	-10,530.7	-2,334.3	1,004.8	834.6	170.16	5.905
19,760.0	8,961.3	19,621.1	8,968.8	87.9	83.4	89.06	-10,590.7	-2,334.9	1,004.8	833.8	171.05	5.874
19,800.0	8,961.3	19,661.1	8,968.8	88.2	83.7	89.06	-10,630.7	-2,335.2	1,004.8	833.2	171.64	5.854
19,855.0	8,961.4	19,716.1	8,968.9	88.6	84.1	89.06	-10,685.7	-2,335.7	1,004.9	832.4	172.44	5.827
19,900.0	8,961.4	19,761.1	8,968.9	88.9	84.4	89.06	-10,730.7	-2,336.1	1,004.9	831.8	173.11	5.805
19,950.0	8,961.5	19,811.1	8,969.0	89.3	84.8	89.06	-10,780.7	-2,336.6	1,004.9	831.1	173.84	5.781
20,000.0	8,961.5	19,861.1	8,969.0	89.7	85.2	89.06	-10,830.7	-2,337.0	1,005.0	830.4	174.58	5.756
20,045.0	8,961.5	19,906.1	8,969.1	90.0	85.5	89.06	-10,875.7	-2,337.4	1,005.0	829.7	175.24	5.735
20,100.0	8,961.6	19,961.1	8,969.2	90.4	85.9	89.06	-10,930.7	-2,337.9	1,005.0	829.0	176.05	5.709
20,140.0	8,961.6	20,001.1	8,969.2	90.7	86.2	89.06	-10,970.7	-2,338.2	1,005.0	828.4	176.64	5.690
20,200.0	8,961.7	20,061.1	8,969.3	91.1	86.7	89.07	-11,030.7	-2,338.8	1,005.1	827.5	177.53	5.661
20,235.0	8,961.7	20,096.1	8,969.3	91.4	86.9	89.07	-11,065.7	-2,339.1	1,005.1	827.0	178.05	5.645
20,300.0	8,961.7	20,161.1	8,969.4	91.8	87.4	89.07	-11,130.7	-2,339.7	1,005.1	826.1	179.01	5.615
20,330.0	8,961.8	20,191.1	8,969.4	92.0	87.6	89.07	-11,160.7	-2,339.9	1,005.1	825.7	179.45	5.601

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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
20,400.0	8,961.8	20,261.1	8,969.5	92.5	88.2	89.07	-11,230.7	-2,340.5	1,005.2	824.7	180.48	5.569	
20,425.0	8,961.8	20,286.1	8,969.5	92.7	88.4	89.07	-11,255.7	-2,340.8	1,005.2	824.3	180.85	5.558	
20,500.0	8,961.9	20,361.1	8,969.6	93.3	88.9	89.07	-11,330.7	-2,341.4	1,005.2	823.3	181.96	5.525	
20,520.0	8,961.9	20,381.1	8,969.6	93.4	89.1	89.07	-11,350.7	-2,341.6	1,005.3	823.0	182.26	5.516	
20,600.0	8,962.0	20,461.1	8,969.7	94.0	89.7	89.07	-11,430.7	-2,342.3	1,005.3	821.9	183.44	5.480	
20,615.0	8,962.0	20,476.1	8,969.7	94.1	89.8	89.07	-11,445.7	-2,342.5	1,005.3	821.7	183.66	5.474	
20,700.0	8,962.1	20,561.1	8,969.8	94.7	90.4	89.08	-11,530.7	-2,343.2	1,005.4	820.4	184.92	5.437	
20,710.0	8,962.1	20,571.1	8,969.9	94.8	90.5	89.08	-11,540.7	-2,343.3	1,005.4	820.3	185.07	5.432	
20,800.0	8,962.1	20,661.1	8,970.0	95.4	91.2	89.08	-11,630.7	-2,344.1	1,005.4	819.0	186.40	5.394	
20,805.0	8,962.2	20,666.1	8,970.0	95.5	91.2	89.08	-11,635.7	-2,344.1	1,005.4	819.0	186.47	5.392	
20,900.0	8,962.2	20,761.1	8,970.1	96.2	91.9	89.08	-11,730.7	-2,345.0	1,005.5	817.6	187.88	5.352	
20,995.0	8,962.3	20,856.1	8,970.2	96.9	92.7	89.08	-11,825.7	-2,345.8	1,005.5	816.2	189.29	5.312	
21,000.0	8,962.3	20,861.1	8,970.2	96.9	92.7	89.08	-11,830.7	-2,345.9	1,005.5	816.2	189.36	5.310	
21,090.0	8,962.4	20,951.1	8,970.3	97.5	93.4	89.08	-11,920.7	-2,346.7	1,005.6	814.9	190.69	5.273	
21,100.0	8,962.4	20,961.1	8,970.3	97.6	93.4	89.08	-11,930.7	-2,346.8	1,005.6	814.8	190.84	5.269	
21,185.0	8,962.5	21,046.1	8,970.4	98.2	94.1	89.09	-12,015.6	-2,347.5	1,005.6	813.5	192.10	5.235	
21,200.0	8,962.5	21,061.1	8,970.4	98.3	94.2	89.09	-12,030.6	-2,347.6	1,005.7	813.3	192.33	5.229	
21,280.0	8,962.5	21,141.1	8,970.5	98.9	94.8	89.09	-12,110.6	-2,348.3	1,005.7	812.2	193.51	5.197	
21,300.0	8,962.5	21,161.1	8,970.5	99.1	95.0	89.09	-12,130.6	-2,348.5	1,005.7	811.9	193.81	5.189	
21,375.0	8,962.6	21,236.1	8,970.6	99.6	95.5	89.09	-12,205.6	-2,349.2	1,005.8	810.8	194.92	5.160	
21,400.0	8,962.6	21,261.1	8,970.6	99.8	95.7	89.09	-12,230.6	-2,349.4	1,005.8	810.5	195.29	5.150	
21,470.0	8,962.7	21,331.1	8,970.7	100.3	96.2	89.09	-12,300.6	-2,350.0	1,005.8	809.5	196.33	5.123	
21,500.0	8,962.7	21,361.1	8,970.8	100.5	96.5	89.09	-12,330.6	-2,350.3	1,005.8	809.1	196.78	5.112	
21,565.0	8,962.8	21,426.1	8,970.8	101.0	97.0	89.09	-12,395.6	-2,350.9	1,005.9	808.1	197.74	5.087	
21,600.0	8,962.8	21,461.1	8,970.9	101.3	97.2	89.09	-12,430.6	-2,351.2	1,005.9	807.6	198.26	5.074	
21,660.0	8,962.8	21,521.1	8,970.9	101.7	97.7	89.09	-12,490.6	-2,351.7	1,005.9	806.8	199.16	5.051	
21,700.0	8,962.9	21,561.1	8,971.0	102.0	98.0	89.10	-12,530.6	-2,352.1	1,005.9	806.2	199.75	5.036	
21,755.0	8,962.9	21,616.1	8,971.1	102.4	98.4	89.10	-12,585.6	-2,352.6	1,006.0	805.4	200.57	5.016	
21,800.0	8,963.0	21,661.1	8,971.1	102.7	98.7	89.10	-12,630.6	-2,353.0	1,006.0	804.8	201.24	4.999	
21,850.0	8,963.0	21,711.1	8,971.2	103.1	99.1	89.10	-12,680.6	-2,353.4	1,006.0	804.1	201.98	4.981	
21,900.0	8,963.0	21,761.1	8,971.2	103.4	99.5	89.10	-12,730.6	-2,353.8	1,006.1	803.3	202.72	4.963	
21,945.0	8,963.1	21,806.1	8,971.3	103.8	99.8	89.10	-12,775.6	-2,354.2	1,006.1	802.7	203.39	4.947	
22,000.0	8,963.1	21,861.1	8,971.3	104.2	100.2	89.10	-12,830.6	-2,354.7	1,006.1	801.9	204.21	4.927	
22,040.0	8,963.1	21,901.1	8,971.4	104.5	100.5	89.10	-12,870.6	-2,355.1	1,006.1	801.3	204.81	4.913	
22,100.0	8,963.2	21,961.1	8,971.4	104.9	101.0	89.10	-12,930.6	-2,355.6	1,006.2	800.5	205.70	4.892	
22,135.0	8,963.2	21,996.1	8,971.5	105.2	101.3	89.10	-12,965.6	-2,355.9	1,006.2	800.0	206.22	4.879	
22,200.0	8,963.3	22,061.1	8,971.6	105.6	101.7	89.11	-13,030.6	-2,356.5	1,006.2	799.1	207.19	4.857	
22,230.0	8,963.3	22,091.1	8,971.6	105.9	102.0	89.11	-13,060.6	-2,356.8	1,006.3	798.6	207.64	4.846	
22,300.0	8,963.4	22,161.1	8,971.7	106.4	102.5	89.11	-13,130.6	-2,357.4	1,006.3	797.6	208.68	4.822	
22,325.0	8,963.4	22,186.1	8,971.7	106.6	102.7	89.11	-13,155.6	-2,357.6	1,006.3	797.3	209.05	4.814	
22,400.0	8,963.4	22,261.1	8,971.8	107.1	103.3	89.11	-13,230.6	-2,358.3	1,006.4	796.2	210.17	4.788	
22,420.0	8,963.5	22,281.1	8,971.8	107.2	103.4	89.11	-13,250.6	-2,358.5	1,006.4	795.9	210.47	4.782	
22,500.0	8,963.5	22,361.1	8,971.9	107.8	104.0	89.11	-13,330.6	-2,359.2	1,006.4	794.8	211.66	4.755	
22,515.0	8,963.5	22,376.1	8,971.9	107.9	104.1	89.11	-13,345.6	-2,359.3	1,006.4	794.5	211.88	4.750	
22,600.0	8,963.6	22,461.1	8,972.0	108.6	104.8	89.11	-13,430.6	-2,360.1	1,006.5	793.3	213.15	4.722	
22,610.0	8,963.6	22,471.1	8,972.0	108.6	104.8	89.11	-13,440.6	-2,360.1	1,006.5	793.2	213.30	4.719	
22,700.0	8,963.7	22,561.1	8,972.1	109.3	105.5	89.12	-13,530.6	-2,360.9	1,006.5	791.9	214.64	4.689	
22,705.0	8,963.7	22,566.1	8,972.1	109.3	105.6	89.12	-13,535.6	-2,361.0	1,006.5	791.8	214.72	4.688	
22,800.0	8,963.8	22,661.1	8,972.2	110.0	106.3	89.12	-13,630.6	-2,361.8	1,006.6	790.5	216.14	4.657	
22,895.0	8,963.8	22,756.1	8,972.4	110.7	107.0	89.12	-13,725.6	-2,362.7	1,006.7	789.1	217.55	4.627	
22,900.0	8,963.8	22,761.1	8,972.4	110.8	107.0	89.12	-13,730.6	-2,362.7	1,006.7	789.0	217.63	4.626	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8417-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
22,990.0	8,963.9	22,851.1	8,972.5	111.4	107.7	89.12	-13,820.6	-2,363.5	1,006.7	787.7	218.97	4.597	
23,000.0	8,963.9	22,861.1	8,972.5	111.5	107.8	89.12	-13,830.6	-2,363.6	1,006.7	787.6	219.12	4.594	
23,085.0	8,964.0	22,946.1	8,972.6	112.1	108.4	89.12	-13,915.6	-2,364.4	1,006.8	786.4	220.39	4.568	
23,100.0	8,964.0	22,961.1	8,972.6	112.2	108.6	89.12	-13,930.6	-2,364.5	1,006.8	786.2	220.62	4.563	
23,180.0	8,964.1	23,041.1	8,972.7	112.8	109.2	89.12	-14,010.6	-2,365.2	1,006.8	785.0	221.81	4.539	
23,200.0	8,964.1	23,061.1	8,972.7	113.0	109.3	89.12	-14,030.6	-2,365.4	1,006.8	784.7	222.11	4.533	
23,275.0	8,964.1	23,136.1	8,972.8	113.5	109.9	89.13	-14,105.6	-2,366.0	1,006.9	783.6	223.23	4.510	
23,300.0	8,964.2	23,161.1	8,972.8	113.7	110.1	89.13	-14,130.6	-2,366.3	1,006.9	783.3	223.61	4.503	
23,370.0	8,964.2	23,231.1	8,972.9	114.2	110.6	89.13	-14,200.6	-2,366.9	1,006.9	782.3	224.65	4.482	
23,400.0	8,964.2	23,261.1	8,972.9	114.4	110.8	89.13	-14,230.6	-2,367.2	1,006.9	781.8	225.10	4.473	
23,465.0	8,964.3	23,326.1	8,973.0	114.9	111.3	89.13	-14,295.6	-2,367.7	1,007.0	780.9	226.07	4.454	
23,500.0	8,964.3	23,361.1	8,973.0	115.2	111.6	89.13	-14,330.6	-2,368.0	1,007.0	780.4	226.60	4.444	
23,560.0	8,964.4	23,421.1	8,973.1	115.6	112.0	89.13	-14,390.6	-2,368.6	1,007.0	779.6	227.49	4.427	
23,600.0	8,964.4	23,461.1	8,973.2	115.9	112.3	89.13	-14,430.6	-2,368.9	1,007.1	779.0	228.09	4.415	
23,655.0	8,964.4	23,516.1	8,973.2	116.3	112.8	89.13	-14,485.5	-2,369.4	1,007.1	778.2	228.91	4.399	
23,700.0	8,964.5	23,561.1	8,973.3	116.7	113.1	89.13	-14,530.5	-2,369.8	1,007.1	777.5	229.59	4.387	
23,750.0	8,964.5	23,611.1	8,973.3	117.0	113.5	89.14	-14,580.5	-2,370.3	1,007.2	776.8	230.34	4.373	
23,800.0	8,964.6	23,661.1	8,973.4	117.4	113.9	89.14	-14,630.5	-2,370.7	1,007.2	776.1	231.09	4.358	
23,845.0	8,964.6	23,706.1	8,973.4	117.7	114.2	89.14	-14,675.5	-2,371.1	1,007.2	775.5	231.76	4.346	
23,900.0	8,964.6	23,761.1	8,973.5	118.1	114.6	89.14	-14,730.5	-2,371.6	1,007.2	774.7	232.58	4.331	
23,940.0	8,964.7	23,801.1	8,973.5	118.4	114.9	89.14	-14,770.5	-2,371.9	1,007.3	774.1	233.18	4.320	
24,000.0	8,964.7	23,861.1	8,973.6	118.9	115.4	89.14	-14,830.5	-2,372.5	1,007.3	773.2	234.08	4.303	
24,035.0	8,964.8	23,896.1	8,973.7	119.1	115.6	89.14	-14,865.5	-2,372.8	1,007.3	772.7	234.60	4.294	
24,100.0	8,964.8	23,961.1	8,973.7	119.6	116.1	89.14	-14,930.5	-2,373.4	1,007.4	771.8	235.58	4.276	
24,130.0	8,964.8	23,991.1	8,973.8	119.8	116.4	89.14	-14,960.5	-2,373.6	1,007.4	771.4	236.03	4.268	
24,200.0	8,964.9	24,061.1	8,973.8	120.4	116.9	89.14	-15,030.5	-2,374.2	1,007.4	770.3	237.08	4.249	
24,214.6	8,964.9	24,075.7	8,973.9	120.5	117.0	89.14	-15,045.1	-2,374.4	1,007.4	770.1	237.29	4.246	
24,225.0	8,964.9	24,086.1	8,973.9	120.5	117.1	89.15	-15,055.5	-2,374.5	1,007.4	770.0	237.45	4.243	
24,300.0	8,965.0	24,161.1	8,974.0	121.1	117.6	89.15	-15,130.5	-2,375.1	1,007.5	768.9	238.57	4.223	
24,320.0	8,965.0	24,181.1	8,974.0	121.2	117.8	89.15	-15,150.5	-2,375.3	1,007.5	768.6	238.87	4.218	
24,320.0	8,965.0	24,181.1	8,974.0	121.2	117.8	89.15	-15,150.5	-2,375.3	1,007.5	768.6	238.87	4.218	
24,344.7	8,965.0	24,197.9	8,974.0	121.4	117.9	89.15	-15,167.4	-2,375.5	1,007.5	768.3	239.21	4.212	
24,345.4	8,965.0	24,197.9	8,974.0	121.4	117.9	89.15	-15,167.4	-2,375.5	1,007.5	768.3	239.21	4.212 ES, SF	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)	Separation (usft)		
0.0	0.0	0.0	0.0	3.0	3.0	20.87	151.1	57.6	161.8				
95.0	95.0	91.1	91.1	3.0	3.0	20.87	151.1	57.6	161.7	155.7	6.03	26.795	
100.0	100.0	96.1	96.1	3.0	3.0	20.87	151.1	57.6	161.7	155.7	6.04	26.774	
190.0	190.0	186.1	186.1	3.1	3.1	20.87	151.1	57.6	161.7	155.5	6.25	25.869	
200.0	200.0	196.1	196.1	3.1	3.1	20.87	151.1	57.6	161.7	155.4	6.29	25.727	
285.0	285.0	281.1	281.1	3.3	3.2	20.87	151.1	57.6	161.7	155.2	6.49	24.901	
300.0	300.0	296.1	296.1	3.3	3.3	20.87	151.1	57.6	161.7	155.2	6.54	24.744	
380.0	380.0	376.1	376.1	3.4	3.4	20.87	151.1	57.6	161.7	155.0	6.73	24.031	
400.0	400.0	396.1	396.1	3.4	3.4	20.87	151.1	57.6	161.7	154.9	6.78	23.846	
475.0	475.0	471.1	471.1	3.5	3.5	20.87	151.1	57.6	161.7	154.7	6.96	23.229	
500.0	500.0	496.1	496.1	3.5	3.5	20.87	151.1	57.6	161.7	154.7	7.02	23.020	
570.0	570.0	566.1	566.1	3.6	3.6	20.87	151.1	57.6	161.7	154.5	7.19	22.486	
600.0	600.0	596.1	596.1	3.6	3.6	20.87	151.1	57.6	161.7	154.4	7.27	22.256	
665.0	665.0	661.1	661.1	3.7	3.7	20.87	151.1	57.6	161.7	154.3	7.42	21.794	
700.0	700.0	696.1	696.1	3.8	3.8	20.87	151.1	57.6	161.7	154.2	7.50	21.547	
760.0	760.0	756.1	756.1	3.8	3.8	20.87	151.1	57.6	161.7	154.1	7.65	21.149	
800.0	800.0	796.1	796.1	3.9	3.9	20.87	151.1	57.6	161.7	154.0	7.74	20.886	
855.0	855.0	851.1	851.1	4.0	3.9	20.87	151.1	57.6	161.7	153.8	7.87	20.544	
900.0	900.0	896.1	896.1	4.0	4.0	20.87	151.1	57.6	161.7	153.7	7.98	20.268	
950.0	950.0	946.1	946.1	4.1	4.1	20.87	151.1	57.6	161.7	153.6	8.09	19.977	
1,000.0	1,000.0	996.1	996.1	4.1	4.1	20.87	151.1	57.6	161.7	153.5	8.21	19.690	
1,045.0	1,045.0	1,041.1	1,041.1	4.2	4.2	20.87	151.1	57.6	161.7	153.4	8.32	19.443	
1,100.0	1,100.0	1,096.1	1,096.1	4.2	4.2	20.87	151.1	57.6	161.7	153.3	8.45	19.146	
1,140.0	1,140.0	1,136.1	1,136.1	4.3	4.3	20.87	151.1	57.6	161.7	153.2	8.54	18.940	
1,200.0	1,200.0	1,196.1	1,196.1	4.4	4.4	20.87	151.1	57.6	161.7	153.0	8.68	18.635	
1,235.0	1,235.0	1,231.1	1,231.1	4.4	4.4	20.87	151.1	57.6	161.7	152.9	8.76	18.464	
1,300.0	1,300.0	1,296.1	1,296.1	4.5	4.5	20.87	151.1	57.6	161.7	152.8	8.91	18.152	
1,330.0	1,330.0	1,326.1	1,326.1	4.5	4.5	20.87	151.1	57.6	161.7	152.7	8.98	18.013	
1,400.0	1,400.0	1,396.1	1,396.1	4.6	4.6	20.87	151.1	57.6	161.7	152.6	9.14	17.696	
1,425.0	1,425.0	1,421.1	1,421.1	4.6	4.6	20.87	151.1	57.6	161.7	152.5	9.20	17.586	
1,500.0	1,500.0	1,496.1	1,496.1	4.7	4.7	20.87	151.1	57.6	161.7	152.3	9.37	17.264 CC	
1,520.0	1,520.0	1,515.3	1,515.3	4.7	4.7	97.16	151.1	57.6	161.8	152.3	9.41	17.180 ES	
1,600.0	1,600.0	1,591.5	1,591.5	4.8	4.9	97.93	152.0	58.7	163.3	153.7	9.62	16.976	
1,615.0	1,615.0	1,605.8	1,605.8	4.9	4.9	98.19	152.3	59.1	163.8	154.1	9.67	16.940	
1,700.0	1,699.8	1,686.3	1,686.1	5.0	5.1	100.26	154.9	62.3	168.4	158.4	9.98	16.874 SF	
1,710.0	1,709.8	1,695.7	1,695.5	5.0	5.1	100.57	155.3	62.8	169.1	159.1	10.02	16.884	
1,800.0	1,799.5	1,780.0	1,779.5	5.3	5.3	103.80	159.7	68.2	177.6	167.3	10.36	17.154	
1,805.0	1,804.4	1,784.6	1,784.2	5.3	5.3	104.00	160.0	68.5	178.2	167.9	10.38	17.179	
1,900.0	1,898.7	1,872.2	1,871.1	5.5	5.6	108.06	166.4	76.3	191.7	181.0	10.76	17.828	
1,995.0	1,992.5	1,958.0	1,956.0	5.9	5.8	112.32	174.2	85.9	210.2	199.1	11.17	18.822	
2,000.0	1,997.5	1,962.4	1,960.4	5.9	5.8	112.55	174.6	86.5	211.3	200.2	11.19	18.884	
2,090.0	2,085.8	2,041.6	2,038.4	6.2	6.1	116.45	183.4	97.2	234.0	222.4	11.62	20.146	
2,100.0	2,095.6	2,050.3	2,046.9	6.2	6.1	116.87	184.4	98.4	236.9	225.2	11.67	20.304	
2,185.0	2,178.5	2,122.8	2,117.9	6.5	6.4	120.20	193.7	109.8	263.3	251.2	12.10	21.769	
2,200.1	2,193.1	2,135.4	2,130.2	6.6	6.4	120.75	195.5	112.0	268.5	256.3	12.17	22.052	
2,280.0	2,270.7	2,201.8	2,194.8	6.8	6.7	123.85	205.2	123.9	297.5	284.9	12.58	23.647	
2,300.0	2,290.1	2,219.9	2,212.4	6.9	6.7	124.61	207.9	127.3	305.0	292.4	12.69	24.043	
2,375.0	2,362.9	2,287.9	2,278.3	7.1	6.9	127.14	218.3	140.0	333.9	320.8	13.10	25.483	
2,400.0	2,387.1	2,310.6	2,300.3	7.2	7.0	127.89	221.8	144.3	343.6	330.3	13.24	25.946	
2,470.0	2,455.0	2,374.0	2,361.9	7.5	7.2	129.79	231.5	156.2	371.0	357.4	13.65	27.185	
2,500.0	2,484.1	2,401.2	2,388.3	7.6	7.3	130.52	235.7	161.3	382.9	369.1	13.82	27.698	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
2,565.0	2,547.2	2,460.1	2,445.4	7.8	7.5	131.97	244.7	172.3	408.8	394.5	14.22	28.748
2,600.0	2,581.2	2,491.8	2,476.2	7.9	7.6	132.68	249.5	178.2	422.8	408.4	14.43	29.294
2,660.0	2,639.4	2,546.2	2,528.9	8.2	7.8	133.79	257.8	188.4	446.9	432.1	14.81	30.178
2,700.0	2,678.2	2,582.4	2,564.1	8.3	7.9	134.46	263.4	195.2	463.1	448.0	15.06	30.744
2,755.0	2,731.6	2,632.3	2,612.5	8.5	8.1	135.32	271.0	204.6	485.4	470.0	15.42	31.481
2,800.0	2,775.2	2,673.0	2,652.0	8.7	8.3	135.97	277.2	212.2	503.7	488.0	15.71	32.059
2,850.0	2,823.7	2,718.3	2,696.0	8.9	8.4	136.63	284.2	220.7	524.2	508.1	16.04	32.668
2,900.0	2,872.3	2,763.7	2,740.0	9.1	8.6	137.25	291.1	229.2	544.6	528.3	16.38	33.250
2,945.0	2,915.9	2,804.4	2,779.5	9.3	8.8	137.77	297.3	236.9	563.1	546.4	16.69	33.748
3,000.0	2,969.3	2,854.3	2,827.9	9.5	9.0	138.35	304.9	246.2	585.7	568.7	17.06	34.328
3,040.0	3,008.1	2,890.5	2,863.1	9.7	9.1	138.75	310.5	253.0	602.2	584.9	17.34	34.731
3,100.0	3,066.3	2,944.9	2,915.8	9.9	9.3	139.32	318.8	263.2	627.0	609.2	17.76	35.306
3,135.0	3,100.3	2,976.6	2,946.6	10.1	9.5	139.62	323.7	269.1	641.4	623.4	18.00	35.626
3,200.0	3,163.3	3,035.5	3,003.7	10.3	9.7	140.16	332.7	280.2	668.3	649.9	18.47	36.193
3,230.0	3,192.5	3,062.7	3,030.1	10.5	9.8	140.39	336.8	285.3	680.8	662.1	18.68	36.443
3,300.0	3,260.4	3,126.1	3,091.7	10.8	10.1	140.91	346.5	297.2	709.8	690.6	19.18	37.000
3,325.0	3,284.6	3,148.8	3,113.7	10.9	10.2	141.08	350.0	301.4	720.2	700.9	19.37	37.189
3,400.0	3,357.4	3,216.8	3,179.6	11.2	10.5	141.57	360.4	314.1	751.4	731.5	19.91	37.735
3,420.0	3,376.8	3,234.9	3,197.2	11.3	10.5	141.69	363.2	317.5	759.7	739.7	20.06	37.873
3,500.0	3,454.4	3,307.4	3,267.5	11.6	10.8	142.16	374.2	331.1	793.1	772.4	20.65	38.406
3,515.0	3,469.0	3,321.0	3,280.7	11.7	10.9	142.25	376.3	333.7	799.3	778.5	20.76	38.501
3,600.0	3,551.5	3,398.0	3,355.5	12.1	11.2	142.70	388.1	348.1	834.8	813.4	21.39	39.019
3,610.0	3,561.2	3,407.1	3,364.3	12.1	11.3	142.75	389.5	349.8	838.9	817.5	21.47	39.077
3,700.0	3,648.5	3,488.6	3,443.4	12.5	11.6	143.19	402.0	365.1	876.5	854.4	22.15	39.581
3,705.0	3,653.3	3,493.1	3,447.8	12.5	11.6	143.21	402.7	366.0	878.6	856.4	22.18	39.608
3,800.0	3,745.5	3,579.2	3,531.3	13.0	12.0	143.63	415.8	382.1	918.4	895.4	22.90	40.097
3,895.0	3,837.7	3,665.3	3,614.8	13.4	12.4	144.01	429.0	398.2	958.1	934.5	23.63	40.549
3,900.0	3,842.5	3,669.9	3,619.2	13.4	12.4	144.03	429.7	399.1	960.2	936.5	23.67	40.572
3,990.0	3,929.9	3,751.4	3,698.4	13.8	12.8	144.36	442.1	414.4	997.9	973.6	24.36	40.968
4,000.0	3,939.6	3,760.5	3,707.2	13.9	12.8	144.40	443.5	416.1	1,002.1	977.7	24.44	41.010
4,085.0	4,022.1	3,837.5	3,781.9	14.3	13.2	144.69	455.3	430.5	1,037.7	1,012.6	25.09	41.357
4,100.0	4,036.6	3,851.1	3,795.1	14.3	13.2	144.74	457.4	433.1	1,044.0	1,018.8	25.21	41.415
4,180.0	4,114.2	3,923.6	3,865.4	14.7	13.6	144.99	468.5	446.7	1,077.6	1,051.8	25.83	41.718
4,200.0	4,133.6	3,941.7	3,883.0	14.8	13.6	145.05	471.2	450.1	1,086.0	1,060.0	25.99	41.791
4,275.0	4,206.4	4,009.7	3,949.0	15.1	14.0	145.27	481.6	462.8	1,117.5	1,090.9	26.57	42.054
4,300.0	4,230.7	4,032.3	3,971.0	15.3	14.1	145.34	485.1	467.0	1,128.0	1,101.2	26.77	42.139
4,370.0	4,298.6	4,095.8	4,032.5	15.6	14.3	145.53	494.8	478.9	1,157.4	1,130.0	27.32	42.367
4,400.0	4,327.7	4,122.9	4,058.9	15.7	14.5	145.61	499.0	484.0	1,170.0	1,142.4	27.55	42.462
4,465.0	4,390.8	4,181.9	4,116.0	16.0	14.7	145.78	508.0	495.1	1,197.3	1,169.2	28.07	42.660
4,500.0	4,424.7	4,213.6	4,146.8	16.2	14.9	145.86	512.8	501.0	1,212.0	1,183.6	28.34	42.763
4,560.0	4,482.9	4,267.9	4,199.6	16.5	15.1	146.00	521.1	511.2	1,237.2	1,208.4	28.82	42.934
4,600.0	4,521.8	4,304.2	4,234.7	16.6	15.3	146.10	526.7	518.0	1,254.0	1,224.9	29.13	43.045
4,655.0	4,575.1	4,354.0	4,283.1	16.9	15.5	146.22	534.3	527.4	1,277.1	1,247.6	29.57	43.191
4,700.0	4,618.8	4,394.8	4,322.7	17.1	15.7	146.32	540.5	535.0	1,296.1	1,266.1	29.93	43.307
4,750.0	4,667.3	4,440.1	4,366.6	17.3	15.9	146.42	547.5	543.5	1,317.1	1,286.8	30.33	43.432

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured 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)		
0.0	0.0	0.0	0.0	3.0	3.0	10.39	150.5	27.6	153.1				
95.0	95.0	90.5	90.5	3.0	3.0	10.39	150.5	27.6	153.0	147.0	6.03	25.355	
100.0	100.0	95.5	95.5	3.0	3.0	10.39	150.5	27.6	153.0	147.0	6.04	25.335	
190.0	190.0	185.5	185.5	3.1	3.1	10.39	150.5	27.6	153.0	146.8	6.25	24.479	
200.0	200.0	195.5	195.5	3.1	3.1	10.39	150.5	27.6	153.0	146.7	6.29	24.345	
285.0	285.0	280.5	280.5	3.3	3.2	10.39	150.5	27.6	153.0	146.5	6.49	23.559	
300.0	300.0	295.5	295.5	3.3	3.3	10.39	150.5	27.6	153.0	146.5	6.54	23.409	
380.0	380.0	375.5	375.5	3.4	3.4	10.39	150.5	27.6	153.0	146.3	6.73	22.730	
400.0	400.0	395.5	395.5	3.4	3.4	10.39	150.5	27.6	153.0	146.2	6.78	22.554	
475.0	475.0	470.5	470.5	3.5	3.5	10.39	150.5	27.6	153.0	146.0	6.97	21.964	
500.0	500.0	495.5	495.5	3.5	3.5	10.39	150.5	27.6	153.0	146.0	7.03	21.765	
570.0	570.0	565.5	565.5	3.6	3.6	10.39	150.5	27.6	153.0	145.8	7.20	21.254	
600.0	600.0	595.5	595.5	3.6	3.6	10.39	150.5	27.6	153.0	145.7	7.27	21.035	
665.0	665.0	660.5	660.5	3.7	3.7	10.39	150.5	27.6	153.0	145.6	7.43	20.593	
700.0	700.0	695.5	695.5	3.8	3.8	10.39	150.5	27.6	153.0	145.5	7.52	20.356	
760.0	760.0	755.5	755.5	3.8	3.8	10.39	150.5	27.6	153.0	145.3	7.66	19.975	
800.0	800.0	795.5	795.5	3.9	3.9	10.39	150.5	27.6	153.0	145.3	7.76	19.723	
855.0	855.0	850.5	850.5	4.0	3.9	10.39	150.5	27.6	153.0	145.1	7.89	19.395	
900.0	900.0	895.5	895.5	4.0	4.0	10.39	150.5	27.6	153.0	145.0	8.00	19.131	
950.0	950.0	945.5	945.5	4.1	4.1	10.39	150.5	27.6	153.0	144.9	8.12	18.851	
1,000.0	1,000.0	995.5	995.5	4.1	4.1	10.39	150.5	27.6	153.0	144.8	8.24	18.576	
1,045.0	1,045.0	1,040.5	1,040.5	4.2	4.2	10.39	150.5	27.6	153.0	144.7	8.34	18.339	
1,100.0	1,100.0	1,095.5	1,095.5	4.2	4.2	10.39	150.5	27.6	153.0	144.5	8.47	18.054	
1,140.0	1,140.0	1,135.5	1,135.5	4.3	4.3	10.39	150.5	27.6	153.0	144.4	8.57	17.856	
1,200.0	1,200.0	1,195.5	1,195.5	4.4	4.4	10.39	150.5	27.6	153.0	144.3	8.71	17.563	
1,235.0	1,235.0	1,230.5	1,230.5	4.4	4.4	10.39	150.5	27.6	153.0	144.2	8.79	17.399	
1,300.0	1,300.0	1,295.5	1,295.5	4.5	4.5	10.39	150.5	27.6	153.0	144.1	8.95	17.100	
1,330.0	1,330.0	1,325.5	1,325.5	4.5	4.5	10.39	150.5	27.6	153.0	144.0	9.02	16.967	
1,400.0	1,400.0	1,395.5	1,395.5	4.6	4.6	10.39	150.5	27.6	153.0	143.8	9.18	16.662	
1,425.0	1,425.0	1,420.5	1,420.5	4.6	4.6	10.39	150.5	27.6	153.0	143.8	9.24	16.557	
1,500.0	1,500.0	1,495.5	1,495.5	4.7	4.7	10.39	150.5	27.6	153.0	143.6	9.42	16.247 CC	
1,520.0	1,520.0	1,514.8	1,514.8	4.7	4.7	86.67	150.5	27.6	153.0	143.6	9.47	16.161 ES	
1,600.0	1,600.0	1,591.5	1,591.5	4.8	4.9	86.94	151.8	27.0	154.2	144.5	9.67	15.944	
1,615.0	1,615.0	1,605.8	1,605.8	4.9	4.9	87.03	152.3	26.8	154.6	144.8	9.72	15.906	
1,700.0	1,699.8	1,687.1	1,687.0	5.0	5.1	87.71	156.1	25.1	157.9	147.9	10.02	15.759	
1,710.0	1,709.8	1,696.7	1,696.5	5.0	5.2	87.81	156.6	24.8	158.4	148.3	10.05	15.756 SF	
1,800.0	1,799.5	1,782.6	1,782.1	5.3	5.4	88.89	163.2	21.8	164.2	153.8	10.37	15.841	
1,805.0	1,804.4	1,787.3	1,786.8	5.3	5.4	88.95	163.6	21.6	164.6	154.2	10.38	15.852	
1,900.0	1,898.7	1,877.6	1,876.5	5.5	5.7	90.36	173.1	17.3	173.2	162.5	10.71	16.176	
1,995.0	1,992.5	1,967.5	1,965.4	5.9	6.0	91.93	185.1	11.8	184.3	173.3	11.03	16.707	
2,000.0	1,997.5	1,972.2	1,970.1	5.9	6.0	92.01	185.8	11.5	185.0	173.9	11.05	16.741	
2,090.0	2,085.8	2,057.2	2,053.7	6.2	6.2	93.57	199.7	5.2	198.0	186.7	11.30	17.526	
2,100.0	2,095.6	2,067.1	2,063.4	6.2	6.2	93.76	201.4	4.5	199.5	188.2	11.32	17.621	
2,185.0	2,178.5	2,150.6	2,145.4	6.5	6.4	95.62	215.9	-2.1	213.0	201.4	11.60	18.369	
2,200.1	2,193.1	2,165.4	2,159.9	6.6	6.4	95.99	218.5	-3.3	215.5	203.8	11.65	18.497	
2,280.0	2,270.7	2,243.8	2,236.9	6.8	6.7	98.12	232.1	-9.5	228.6	216.7	11.94	19.156	
2,300.0	2,290.1	2,263.5	2,256.2	6.9	6.7	98.61	235.5	-11.1	232.0	220.0	12.01	19.318	
2,375.0	2,362.9	2,337.0	2,328.4	7.1	7.0	100.35	248.3	-16.9	244.6	232.4	12.29	19.906	
2,400.0	2,387.1	2,361.6	2,352.5	7.2	7.0	100.88	252.5	-18.8	248.9	236.5	12.39	20.098	
2,470.0	2,455.0	2,430.2	2,419.9	7.5	7.3	102.30	264.4	-24.2	261.0	248.3	12.66	20.618	
2,500.0	2,484.1	2,459.7	2,448.8	7.6	7.4	102.87	269.6	-26.5	266.2	253.4	12.78	20.834	

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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Measured	Reference	Measured	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum		Separation	Warning	
Depth	Vertical	Depth	Vertical	Reference	Offset	Highside			Between	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	Toolface	+N/-S	+E/-W	Centres	(usft)	(usft)	(usft)		
2,565.0	2,547.2	2,523.4	2,511.4	7.8	7.6	104.03	280.6	-31.6	277.6	264.5	13.04	21.288		
2,600.0	2,581.2	2,557.8	2,545.1	7.9	7.7	104.61	286.6	-34.3	283.7	270.6	13.18	21.525		
2,660.0	2,639.4	2,616.6	2,602.8	8.2	7.9	105.56	296.8	-38.9	294.4	281.0	13.43	21.918		
2,700.0	2,678.2	2,655.9	2,641.4	8.3	8.1	106.15	303.6	-42.0	301.5	287.9	13.60	22.171		
2,755.0	2,731.6	2,709.8	2,694.3	8.5	8.2	106.92	313.0	-46.3	311.4	297.5	13.83	22.508		
2,800.0	2,775.2	2,754.0	2,737.7	8.7	8.4	107.52	320.7	-49.8	319.5	305.5	14.03	22.774		
2,850.0	2,823.7	2,803.0	2,785.8	8.9	8.6	108.14	329.2	-53.7	328.5	314.3	14.25	23.059		
2,900.0	2,872.3	2,852.1	2,834.0	9.1	8.8	108.74	337.7	-57.5	337.6	323.1	14.47	23.334		
2,945.0	2,915.9	2,896.2	2,877.3	9.3	9.0	109.25	345.4	-61.0	345.8	331.1	14.67	23.573		
3,000.0	2,969.3	2,950.2	2,930.3	9.5	9.2	109.84	354.7	-65.3	355.9	341.0	14.92	23.856		
3,040.0	3,008.1	2,989.4	2,968.8	9.7	9.3	110.25	361.6	-68.4	363.2	348.1	15.10	24.054		
3,100.0	3,066.3	3,048.3	3,026.6	9.9	9.5	110.83	371.8	-73.0	374.2	358.9	15.38	24.340		
3,135.0	3,100.3	3,082.6	3,060.3	10.1	9.7	111.15	377.8	-75.8	380.7	365.2	15.54	24.501		
3,200.0	3,163.3	3,146.4	3,122.9	10.3	9.9	111.73	388.8	-80.8	392.7	376.9	15.84	24.791		
3,230.0	3,192.5	3,175.8	3,151.7	10.5	10.1	111.98	393.9	-83.1	398.3	382.3	15.98	24.919		
3,300.0	3,260.4	3,244.5	3,219.2	10.8	10.3	112.54	405.9	-88.5	411.3	395.0	16.31	25.210		
3,325.0	3,284.6	3,269.0	3,243.2	10.9	10.4	112.74	410.1	-90.5	415.9	399.5	16.43	25.309		
3,400.0	3,357.4	3,342.6	3,315.5	11.2	10.7	113.29	422.9	-96.3	429.9	413.1	16.79	25.599		
3,420.0	3,376.8	3,362.2	3,334.7	11.3	10.8	113.43	426.3	-97.8	433.6	416.7	16.89	25.673		
3,500.0	3,454.4	3,440.7	3,411.8	11.6	11.1	113.98	439.9	-104.0	448.6	431.3	17.28	25.962		
3,515.0	3,469.0	3,455.4	3,426.2	11.7	11.2	114.07	442.5	-105.2	451.4	434.1	17.35	26.014		
3,600.0	3,551.5	3,538.8	3,508.1	12.1	11.5	114.61	457.0	-111.8	467.3	449.6	17.77	26.300		
3,610.0	3,561.2	3,548.6	3,517.7	12.1	11.6	114.67	458.7	-112.6	469.2	451.4	17.82	26.332		
3,700.0	3,648.5	3,636.9	3,604.4	12.5	12.0	115.19	474.0	-119.5	486.1	467.9	18.27	26.615		
3,705.0	3,653.3	3,641.8	3,609.2	12.5	12.0	115.22	474.9	-119.9	487.1	468.8	18.29	26.630		
3,800.0	3,745.5	3,735.0	3,700.7	13.0	12.4	115.73	491.1	-127.3	505.0	486.2	18.77	26.909		
3,895.0	3,837.7	3,828.2	3,792.1	13.4	12.8	116.20	507.2	-134.6	522.9	503.7	19.25	27.171		
3,900.0	3,842.5	3,833.1	3,797.0	13.4	12.8	116.23	508.1	-135.0	523.9	504.6	19.27	27.184		
3,990.0	3,929.9	3,921.4	3,883.6	13.8	13.2	116.65	523.4	-142.0	540.9	521.2	19.73	27.417		
4,000.0	3,939.6	3,931.2	3,893.2	13.9	13.2	116.69	525.1	-142.8	542.8	523.0	19.78	27.442		
4,085.0	4,022.1	4,014.6	3,975.1	14.3	13.6	117.06	539.6	-149.4	558.9	538.7	20.21	27.649		
4,100.0	4,036.6	4,029.3	3,989.5	14.3	13.6	117.13	542.2	-150.5	561.8	541.5	20.29	27.685		
4,180.0	4,114.2	4,108.6	4,067.5	14.7	14.0	117.46	555.9	-156.8	576.9	556.2	20.70	27.865		
4,200.0	4,133.6	4,130.0	4,088.4	14.8	14.1	117.56	559.5	-158.4	580.7	559.9	20.82	27.896		
4,275.0	4,206.4	4,209.9	4,167.3	15.1	14.4	118.05	571.6	-163.9	594.2	573.0	21.23	27.985		
4,300.0	4,230.7	4,236.6	4,193.6	15.3	14.6	118.25	575.1	-165.5	598.6	577.2	21.37	28.011		
4,370.0	4,298.6	4,311.2	4,267.6	15.6	14.9	118.92	584.0	-169.5	610.3	588.6	21.75	28.066		
4,400.0	4,327.7	4,343.1	4,299.4	15.7	15.0	119.25	587.2	-171.0	615.2	593.3	21.90	28.086		
4,465.0	4,390.8	4,412.2	4,368.1	16.0	15.3	120.05	593.1	-173.7	625.4	603.1	22.24	28.116		
4,500.0	4,424.7	4,449.3	4,405.1	16.2	15.4	120.53	595.7	-174.9	630.7	608.2	22.42	28.131		
4,560.0	4,482.9	4,512.7	4,468.4	16.5	15.7	121.42	599.0	-176.4	639.5	616.8	22.72	28.144		
4,600.0	4,521.8	4,554.9	4,510.5	16.6	15.8	122.06	600.5	-177.1	645.2	622.3	22.92	28.152		
4,655.0	4,575.1	4,612.5	4,568.2	16.9	16.0	123.00	601.7	-177.6	652.9	629.7	23.19	28.161		
4,700.0	4,618.8	4,658.6	4,614.3	17.1	16.0	123.81	601.9	-177.7	659.1	635.7	23.38	28.197		
4,750.0	4,667.3	4,707.2	4,662.8	17.3	16.1	124.65	601.9	-177.7	666.1	642.5	23.58	28.243		
4,800.0	4,715.8	4,755.7	4,711.3	17.6	16.1	125.49	601.9	-177.7	673.1	649.3	23.81	28.266		
4,845.0	4,759.5	4,799.3	4,755.0	17.8	16.1	126.22	601.9	-177.7	679.7	655.6	24.03	28.285		
4,900.0	4,812.8	4,852.7	4,808.3	18.0	16.1	127.10	601.9	-177.7	687.7	663.5	24.30	28.306		
4,940.0	4,851.7	4,891.5	4,847.2	18.2	16.2	127.72	601.9	-177.7	693.7	669.2	24.50	28.320		
5,000.0	4,909.9	4,949.7	4,905.4	18.5	16.2	128.64	601.9	-177.7	702.9	678.1	24.80	28.339		
5,035.0	4,943.8	4,983.7	4,939.3	18.7	16.2	129.17	601.9	-177.7	708.3	683.3	24.98	28.349		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	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
5,100.0	5,006.9	5,046.8	5,002.4	19.0	16.3	130.12	601.9	-177.7	718.5	693.2	25.33	28.367	
5,130.0	5,036.0	5,075.9	5,031.5	19.1	16.3	130.55	601.9	-177.7	723.3	697.8	25.49	28.375	
5,200.0	5,103.9	5,143.8	5,099.4	19.5	16.3	131.54	601.9	-177.7	734.6	708.7	25.87	28.392	
5,225.0	5,128.2	5,168.0	5,123.7	19.6	16.3	131.89	601.9	-177.7	738.7	712.7	26.01	28.398	
5,300.0	5,201.0	5,240.8	5,196.5	19.9	16.4	132.90	601.9	-177.7	751.1	724.7	26.43	28.415	
5,320.0	5,220.4	5,260.2	5,215.9	20.0	16.4	133.17	601.9	-177.7	754.5	727.9	26.55	28.419	
5,400.0	5,298.0	5,337.8	5,293.5	20.4	16.4	134.20	601.9	-177.7	768.1	741.1	27.01	28.437	
5,415.0	5,312.5	5,352.4	5,308.0	20.5	16.4	134.39	601.9	-177.7	770.6	743.5	27.10	28.440	
5,500.0	5,395.0	5,434.9	5,390.5	20.9	16.5	135.45	601.9	-177.7	785.4	757.8	27.60	28.459	
5,510.0	5,404.7	5,444.6	5,400.2	20.9	16.5	135.57	601.9	-177.7	787.1	759.5	27.66	28.461	
5,600.0	5,492.0	5,531.9	5,487.5	21.4	16.5	136.64	601.9	-177.7	803.0	774.8	28.20	28.482	
5,605.0	5,496.9	5,536.8	5,492.4	21.4	16.5	136.70	601.9	-177.7	803.9	775.7	28.23	28.483	
5,700.0	5,589.1	5,628.9	5,584.6	21.8	16.6	137.79	601.9	-177.7	821.0	792.2	28.80	28.506	
5,795.0	5,681.3	5,721.1	5,676.8	22.3	16.6	138.83	601.9	-177.7	838.4	809.1	29.39	28.532	
5,800.0	5,686.1	5,726.0	5,681.6	22.3	16.6	138.88	601.9	-177.7	839.4	809.9	29.42	28.533	
5,890.0	5,773.4	5,813.3	5,768.9	22.7	16.7	139.83	601.9	-177.7	856.1	826.1	29.98	28.560	
5,900.0	5,783.1	5,823.0	5,778.6	22.8	16.7	139.93	601.9	-177.7	858.0	827.9	30.04	28.563	
5,985.0	5,865.6	5,905.5	5,861.1	23.2	16.8	140.79	601.9	-177.7	874.0	843.4	30.57	28.590	
6,000.0	5,880.2	5,920.0	5,875.7	23.3	16.8	140.94	601.9	-177.7	876.8	846.2	30.66	28.596	
6,080.0	5,957.8	5,997.6	5,953.3	23.7	16.8	141.71	601.9	-177.7	892.1	861.0	31.17	28.624	
6,100.0	5,977.2	6,017.0	5,972.7	23.8	16.8	141.90	601.9	-177.7	896.0	864.7	31.29	28.631	
6,175.0	6,050.0	6,089.8	6,045.5	24.1	16.9	142.60	601.9	-177.7	910.5	878.7	31.77	28.660	
6,200.0	6,074.2	6,114.1	6,069.7	24.2	16.9	142.83	601.9	-177.7	915.3	883.4	31.93	28.670	
6,270.0	6,142.1	6,182.0	6,137.6	24.6	16.9	143.45	601.9	-177.7	929.0	896.7	32.37	28.698	
6,300.0	6,171.2	6,211.1	6,166.7	24.7	16.9	143.71	601.9	-177.7	934.9	902.4	32.56	28.711	
6,365.0	6,234.3	6,274.2	6,229.8	25.0	17.0	144.27	601.9	-177.7	947.8	914.8	32.98	28.740	
6,400.0	6,268.3	6,308.1	6,263.8	25.2	17.0	144.56	601.9	-177.7	954.8	921.6	33.20	28.756	
6,460.0	6,326.5	6,366.3	6,322.0	25.5	17.0	145.06	601.9	-177.7	966.7	933.2	33.59	28.784	
6,500.0	6,365.3	6,405.2	6,360.8	25.7	17.1	145.38	601.9	-177.7	974.8	940.9	33.84	28.804	
6,555.0	6,418.7	6,458.5	6,414.2	25.9	17.1	145.82	601.9	-177.7	985.8	951.7	34.19	28.831	
6,600.0	6,462.3	6,502.2	6,457.8	26.2	17.1	146.17	601.9	-177.7	995.0	960.5	34.48	28.855	
6,650.0	6,510.8	6,550.7	6,506.3	26.4	17.1	146.55	601.9	-177.7	1,005.1	970.3	34.80	28.881	
6,700.0	6,559.4	6,599.2	6,554.9	26.6	17.2	146.92	601.9	-177.7	1,015.3	980.2	35.12	28.908	
6,745.0	6,603.0	6,642.9	6,598.5	26.9	17.2	147.25	601.9	-177.7	1,024.5	989.1	35.41	28.936	
6,772.7	6,629.9	6,669.7	6,625.4	27.0	17.2	147.45	601.9	-177.7	1,030.2	994.6	35.58	28.954	
6,800.0	6,656.4	6,696.3	6,651.9	27.1	17.2	147.70	601.9	-177.7	1,035.7	1,000.0	35.75	28.972	
6,840.0	6,695.4	6,735.2	6,690.9	27.3	17.3	148.05	601.9	-177.7	1,043.5	1,007.5	36.00	28.982	
6,900.0	6,754.1	6,793.9	6,749.6	27.6	17.3	148.52	601.9	-177.7	1,054.2	1,017.8	36.38	28.978	
6,935.0	6,788.4	6,828.3	6,783.9	27.8	17.3	148.77	601.9	-177.7	1,060.0	1,023.4	36.59	28.970	
7,000.0	6,852.4	6,892.3	6,847.9	28.1	17.3	149.19	601.9	-177.7	1,069.8	1,032.8	36.97	28.935	
7,030.0	6,882.0	6,921.9	6,877.5	28.2	17.4	149.36	601.9	-177.7	1,073.9	1,036.8	37.14	28.914	
7,100.0	6,951.3	6,991.2	6,946.8	28.5	17.4	149.71	601.9	-177.7	1,082.5	1,044.9	37.53	28.844	
7,125.0	6,976.1	7,016.0	6,971.6	28.6	17.4	149.82	601.9	-177.7	1,085.2	1,047.5	37.66	28.816	
7,200.0	7,050.7	7,090.5	7,046.2	29.0	17.5	150.11	601.9	-177.7	1,092.2	1,054.2	38.04	28.709	
7,220.0	7,070.6	7,110.4	7,066.1	29.0	17.5	150.17	601.9	-177.7	1,093.8	1,055.7	38.14	28.680	
7,300.0	7,150.4	7,190.2	7,145.9	29.3	17.5	150.38	601.9	-177.7	1,099.0	1,060.5	38.51	28.537	
7,315.0	7,165.3	7,205.2	7,160.8	29.4	17.5	150.41	601.9	-177.7	1,099.7	1,061.1	38.57	28.511	
7,400.0	7,250.3	7,290.1	7,245.8	29.7	17.6	150.52	601.9	-177.7	1,102.7	1,063.8	38.91	28.336	
7,410.0	7,260.3	7,300.1	7,255.8	29.7	17.6	150.53	601.9	-177.7	1,102.9	1,064.0	38.94	28.325	
7,472.7	7,323.0	7,362.9	7,318.5	29.8	17.6	74.29	601.9	-177.7	1,103.5	1,064.4	39.08	28.237	
7,500.0	7,350.3	7,390.1	7,345.8	29.8	17.7	74.29	601.9	-177.7	1,103.5	1,064.4	39.11	28.218	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1													Offset Site Error:	0.0 usft	
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS						Rule Assigned:						Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance							
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		
7,505.0	7,355.3	7,395.1	7,350.8	29.8	17.7	74.29	601.9	-177.7	1,103.5	1,064.4	39.11	28.214			
7,600.0	7,450.3	7,490.1	7,445.8	29.8	17.7	74.29	601.9	-177.7	1,103.5	1,064.3	39.23	28.132			
7,695.0	7,545.3	7,585.1	7,540.8	29.8	17.8	74.29	601.9	-177.7	1,103.5	1,064.2	39.34	28.051			
7,700.0	7,550.3	7,590.1	7,545.8	29.8	17.8	74.29	601.9	-177.7	1,103.5	1,064.2	39.34	28.047			
7,790.0	7,640.3	7,680.1	7,635.8	29.9	17.8	74.29	601.9	-177.7	1,103.5	1,064.0	39.45	27.970			
7,800.0	7,650.3	7,690.1	7,645.8	29.9	17.8	74.29	601.9	-177.7	1,103.5	1,064.0	39.46	27.962			
7,885.0	7,735.3	7,775.1	7,730.8	29.9	17.9	74.29	601.9	-177.7	1,103.5	1,063.9	39.57	27.890			
7,900.0	7,750.3	7,790.1	7,745.8	29.9	17.9	74.29	601.9	-177.7	1,103.5	1,063.9	39.58	27.877			
7,980.0	7,830.3	7,870.1	7,825.8	29.9	18.0	74.29	601.9	-177.7	1,103.5	1,063.8	39.68	27.810			
8,000.0	7,850.3	7,890.1	7,845.8	29.9	18.0	74.29	601.9	-177.7	1,103.5	1,063.8	39.70	27.793			
8,075.0	7,925.3	7,965.1	7,920.8	30.0	18.0	74.29	601.9	-177.7	1,103.5	1,063.7	39.79	27.731			
8,100.0	7,950.3	7,990.1	7,945.8	30.0	18.0	74.29	601.9	-177.7	1,103.5	1,063.7	39.82	27.710			
8,170.0	8,020.3	8,060.1	8,015.8	30.0	18.1	74.29	601.9	-177.7	1,103.5	1,063.6	39.91	27.651			
8,200.0	8,050.3	8,090.1	8,045.8	30.0	18.1	74.29	601.9	-177.7	1,103.5	1,063.6	39.94	27.626			
8,265.0	8,115.3	8,155.1	8,110.8	30.0	18.1	74.29	601.9	-177.7	1,103.5	1,063.5	40.02	27.573			
8,300.0	8,150.3	8,190.1	8,145.8	30.0	18.2	74.29	601.9	-177.7	1,103.5	1,063.4	40.06	27.544			
8,360.0	8,210.3	8,250.1	8,205.8	30.0	18.2	74.29	601.9	-177.7	1,103.5	1,063.4	40.14	27.494			
8,400.0	8,250.3	8,290.1	8,245.8	30.1	18.2	74.29	601.9	-177.7	1,103.5	1,063.3	40.18	27.461			
8,455.0	8,305.3	8,345.1	8,300.8	30.1	18.3	74.29	601.9	-177.7	1,103.5	1,063.2	40.25	27.416			
8,500.0	8,350.3	8,390.1	8,345.8	30.1	18.3	74.29	601.9	-177.7	1,103.5	1,063.2	40.30	27.379			
8,529.8	8,380.0	8,419.9	8,375.5	30.1	18.3	74.29	601.9	-177.7	1,103.5	1,063.2	40.33	27.359			
8,550.0	8,400.3	8,440.1	8,395.8	30.1	18.3	-106.19	601.9	-177.7	1,103.6	1,063.2	40.35	27.352			
8,600.0	8,450.1	8,489.9	8,445.6	30.1	18.3	-106.28	601.9	-177.7	1,104.7	1,064.3	40.36	27.372			
8,645.0	8,494.5	8,534.3	8,490.0	30.1	18.4	-106.43	601.9	-177.7	1,106.8	1,066.4	40.33	27.442			
8,650.0	8,499.4	8,539.2	8,494.9	30.1	18.4	-106.46	601.9	-177.7	1,107.1	1,066.7	40.33	27.453			
8,700.0	8,547.8	8,587.6	8,543.3	30.1	18.4	-106.70	601.9	-177.7	1,110.8	1,070.5	40.25	27.597			
8,740.0	8,585.6	8,625.4	8,581.1	30.1	18.4	-106.93	601.9	-177.7	1,114.7	1,074.6	40.16	27.758			
8,750.0	8,594.9	8,634.7	8,590.4	30.1	18.4	-106.99	601.9	-177.7	1,115.9	1,075.7	40.13	27.805			
8,800.0	8,640.4	8,680.2	8,635.9	30.1	18.5	-107.28	601.9	-177.7	1,122.5	1,082.6	39.98	28.080			
8,835.0	8,671.0	8,710.9	8,666.5	30.1	18.5	-107.46	601.9	-177.7	1,128.2	1,088.4	39.84	28.315			
8,850.0	8,683.8	8,723.7	8,679.3	30.1	18.5	-107.52	601.9	-177.7	1,130.9	1,091.1	39.78	28.426			
8,900.0	8,725.0	8,764.9	8,720.5	30.2	18.5	-107.68	601.9	-177.7	1,141.1	1,101.5	39.56	28.844			
8,930.0	8,748.5	8,788.4	8,744.0	30.2	18.5	-107.70	601.9	-177.7	1,148.1	1,108.7	39.41	29.131			
8,950.0	8,763.6	8,803.4	8,759.1	30.2	18.5	-107.68	601.9	-177.7	1,153.3	1,113.9	39.31	29.337			
9,000.0	8,799.2	8,839.1	8,794.7	30.2	18.6	-107.49	601.9	-177.7	1,167.5	1,128.5	39.04	29.906			
9,025.0	8,815.9	8,855.7	8,811.4	30.2	18.6	-107.30	601.9	-177.7	1,175.5	1,136.6	38.90	30.220			
9,050.0	8,831.7	8,871.5	8,827.2	30.2	18.6	-107.04	601.9	-177.7	1,184.0	1,145.2	38.75	30.552			
9,100.0	8,860.7	8,900.5	8,856.2	30.2	18.6	-106.28	601.9	-177.7	1,202.7	1,164.2	38.46	31.274			
9,120.0	8,871.3	8,911.1	8,866.8	30.2	18.6	-105.87	601.9	-177.7	1,210.8	1,172.5	38.34	31.584			
9,150.0	8,886.0	8,925.9	8,881.5	30.3	18.6	-105.15	601.9	-177.7	1,223.6	1,185.5	38.15	32.070			
9,200.0	8,907.5	8,947.4	8,903.0	30.3	18.6	-103.60	601.9	-177.7	1,246.8	1,208.9	37.85	32.937			
9,215.0	8,913.2	8,953.1	8,908.7	30.3	18.6	-103.05	601.9	-177.7	1,254.2	1,216.4	37.77	33.210			
9,250.0	8,925.0	8,964.9	8,920.5	30.3	18.7	-101.58	601.9	-177.7	1,272.1	1,234.5	37.56	33.869			
9,300.0	8,938.4	8,978.2	8,933.9	30.4	18.7	-99.05	601.9	-177.7	1,299.3	1,262.1	37.27	34.860			
9,310.0	8,940.5	8,980.4	8,936.0	30.4	18.7	-98.48	601.9	-177.7	1,305.0	1,267.8	37.22	35.065			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-0.88	149.9	-2.3	150.0				
95.0	95.0	90.5	90.5	3.0	3.0	-0.88	149.9	-2.3	149.9	143.9	6.03	24.843	
100.0	100.0	95.5	95.5	3.0	3.0	-0.88	149.9	-2.3	149.9	143.9	6.04	24.823	
190.0	190.0	185.5	185.5	3.1	3.1	-0.88	149.9	-2.3	149.9	143.7	6.25	23.984	
200.0	200.0	195.5	195.5	3.1	3.1	-0.88	149.9	-2.3	149.9	143.6	6.29	23.852	
285.0	285.0	280.5	280.5	3.3	3.2	-0.88	149.9	-2.3	149.9	143.4	6.50	23.081	
300.0	300.0	295.5	295.5	3.3	3.3	-0.88	149.9	-2.3	149.9	143.4	6.54	22.934	
380.0	380.0	375.5	375.5	3.4	3.4	-0.88	149.9	-2.3	149.9	143.2	6.73	22.266	
400.0	400.0	395.5	395.5	3.4	3.4	-0.88	149.9	-2.3	149.9	143.1	6.79	22.094	
475.0	475.0	470.5	470.5	3.5	3.5	-0.88	149.9	-2.3	149.9	142.9	6.97	21.515	
500.0	500.0	495.5	495.5	3.5	3.5	-0.88	149.9	-2.3	149.9	142.9	7.03	21.319	
570.0	570.0	565.5	565.5	3.6	3.6	-0.88	149.9	-2.3	149.9	142.7	7.20	20.817	
600.0	600.0	595.5	595.5	3.6	3.6	-0.88	149.9	-2.3	149.9	142.6	7.28	20.601	
665.0	665.0	660.5	660.5	3.7	3.7	-0.88	149.9	-2.3	149.9	142.5	7.43	20.166	
700.0	700.0	695.5	695.5	3.8	3.8	-0.88	149.9	-2.3	149.9	142.4	7.52	19.933	
760.0	760.0	755.5	755.5	3.8	3.8	-0.88	149.9	-2.3	149.9	142.3	7.67	19.558	
800.0	800.0	795.5	795.5	3.9	3.9	-0.88	149.9	-2.3	149.9	142.2	7.76	19.310	
855.0	855.0	850.5	850.5	4.0	3.9	-0.88	149.9	-2.3	149.9	142.0	7.90	18.988	
900.0	900.0	895.5	895.5	4.0	4.0	-0.88	149.9	-2.3	149.9	141.9	8.01	18.728	
950.0	950.0	945.5	945.5	4.1	4.1	-0.88	149.9	-2.3	149.9	141.8	8.12	18.453	
1,000.0	1,000.0	995.5	995.5	4.1	4.1	-0.88	149.9	-2.3	149.9	141.7	8.25	18.182	
1,045.0	1,045.0	1,040.5	1,040.5	4.2	4.2	-0.88	149.9	-2.3	149.9	141.6	8.35	17.949	
1,100.0	1,100.0	1,095.5	1,095.5	4.2	4.2	-0.88	149.9	-2.3	149.9	141.4	8.49	17.668	
1,140.0	1,140.0	1,135.5	1,135.5	4.3	4.3	-0.88	149.9	-2.3	149.9	141.3	8.58	17.473	
1,200.0	1,200.0	1,195.5	1,195.5	4.4	4.4	-0.88	149.9	-2.3	149.9	141.2	8.72	17.185	
1,235.0	1,235.0	1,230.5	1,230.5	4.4	4.4	-0.88	149.9	-2.3	149.9	141.1	8.81	17.024	
1,300.0	1,300.0	1,295.5	1,295.5	4.5	4.5	-0.88	149.9	-2.3	149.9	141.0	8.96	16.729	
1,330.0	1,330.0	1,325.5	1,325.5	4.5	4.5	-0.88	149.9	-2.3	149.9	140.9	9.03	16.598	
1,400.0	1,400.0	1,395.5	1,395.5	4.6	4.6	-0.88	149.9	-2.3	149.9	140.7	9.20	16.298	
1,425.0	1,425.0	1,420.5	1,420.5	4.6	4.6	-0.88	149.9	-2.3	149.9	140.7	9.26	16.194	
1,500.0	1,500.0	1,495.5	1,495.5	4.7	4.7	-0.88	149.9	-2.3	149.9	140.5	9.44	15.889	
1,512.9	1,512.9	1,508.2	1,508.2	4.7	4.7	75.39	149.9	-2.3	149.9	140.5	9.46	15.842 CC	
1,520.0	1,520.0	1,515.2	1,515.2	4.7	4.7	75.39	149.9	-2.3	149.9	140.4	9.48	15.817 ES	
1,600.0	1,600.0	1,593.6	1,593.5	4.8	4.8	75.47	150.5	-3.7	150.1	140.4	9.65	15.556	
1,615.0	1,615.0	1,608.3	1,608.2	4.9	4.9	75.49	150.7	-4.2	150.2	140.5	9.69	15.492	
1,700.0	1,699.8	1,691.5	1,691.4	5.0	5.0	75.65	152.3	-8.2	150.7	140.8	9.97	15.127	
1,710.0	1,709.8	1,701.3	1,701.2	5.0	5.0	75.67	152.6	-8.8	150.8	140.8	10.00	15.088	
1,800.0	1,799.5	1,789.5	1,789.0	5.3	5.3	75.89	155.5	-15.8	151.9	141.6	10.28	14.769	
1,805.0	1,804.4	1,794.4	1,793.9	5.3	5.3	75.91	155.7	-16.3	151.9	141.6	10.30	14.753	
1,900.0	1,898.7	1,887.5	1,886.3	5.5	5.5	76.21	159.9	-26.5	153.5	142.9	10.60	14.479	
1,995.0	1,992.5	1,980.6	1,978.3	5.9	5.8	76.58	165.3	-39.5	155.5	144.5	10.91	14.255	
2,000.0	1,997.5	1,985.5	1,983.1	5.9	5.9	76.60	165.6	-40.2	155.6	144.6	10.92	14.244	
2,090.0	2,085.8	2,073.6	2,069.8	6.2	6.2	76.99	171.8	-55.2	157.9	146.6	11.22	14.074	
2,100.0	2,095.6	2,083.4	2,079.4	6.2	6.2	77.04	172.5	-57.0	158.1	146.9	11.25	14.057	
2,185.0	2,178.5	2,166.7	2,160.7	6.5	6.5	77.46	179.4	-73.7	160.7	149.2	11.54	13.927	
2,200.1	2,193.1	2,181.5	2,175.0	6.6	6.5	77.53	180.7	-76.8	161.2	149.6	11.59	13.908	
2,280.0	2,270.7	2,261.0	2,252.2	6.8	6.8	77.85	188.1	-94.6	164.0	152.1	11.88	13.809	
2,300.0	2,290.1	2,281.0	2,271.6	6.9	6.9	77.92	189.9	-99.0	164.7	152.7	11.95	13.785	
2,375.0	2,362.9	2,355.9	2,344.3	7.1	7.1	78.19	196.8	-115.8	167.3	155.1	12.23	13.687	
2,400.0	2,387.1	2,380.9	2,368.6	7.2	7.2	78.27	199.1	-121.4	168.2	155.9	12.32	13.654	
2,470.0	2,455.0	2,450.8	2,436.4	7.5	7.4	78.51	205.6	-137.0	170.7	158.1	12.59	13.559	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
2,500.0	2,484.1	2,480.8	2,465.5	7.6	7.5	78.61	208.4	-143.7	171.8	159.1	12.71	13.518		
2,565.0	2,547.2	2,545.8	2,528.6	7.8	7.8	78.83	214.4	-158.2	174.1	161.1	12.96	13.428		
2,600.0	2,581.2	2,580.8	2,562.5	7.9	7.9	78.94	217.6	-166.1	175.3	162.2	13.10	13.379		
2,660.0	2,639.4	2,640.7	2,620.7	8.2	8.1	79.13	223.2	-179.5	177.4	164.1	13.35	13.295		
2,700.0	2,678.2	2,680.7	2,659.5	8.3	8.3	79.25	226.9	-188.4	178.9	165.4	13.51	13.239		
2,755.0	2,731.6	2,735.6	2,712.8	8.5	8.5	79.42	231.9	-200.7	180.8	167.1	13.74	13.161		
2,800.0	2,775.2	2,780.6	2,756.4	8.7	8.6	79.55	236.1	-210.7	182.4	168.5	13.93	13.099		
2,850.0	2,823.7	2,830.6	2,804.9	8.9	8.8	79.70	240.7	-221.9	184.2	170.1	14.14	13.029		
2,900.0	2,872.3	2,880.5	2,853.4	9.1	9.0	79.84	245.3	-233.1	186.0	171.6	14.35	12.960		
2,945.0	2,915.9	2,925.5	2,897.0	9.3	9.2	79.97	249.5	-243.1	187.6	173.0	14.54	12.898		
3,000.0	2,969.3	2,980.5	2,950.4	9.5	9.4	80.12	254.6	-255.4	189.6	174.8	14.78	12.824		
3,040.0	3,008.1	3,020.5	2,989.1	9.7	9.6	80.23	258.3	-264.3	191.0	176.0	14.96	12.769		
3,100.0	3,066.3	3,080.4	3,047.3	9.9	9.9	80.38	263.8	-277.7	193.1	177.9	15.22	12.690		
3,135.0	3,100.3	3,115.4	3,081.3	10.1	10.0	80.48	267.0	-285.6	194.4	179.0	15.37	12.643		
3,200.0	3,163.3	3,180.3	3,144.3	10.3	10.3	80.64	273.0	-300.1	196.7	181.0	15.66	12.559		
3,230.0	3,192.5	3,210.3	3,173.4	10.5	10.4	80.72	275.8	-306.8	197.8	182.0	15.80	12.520		
3,300.0	3,260.4	3,280.3	3,241.3	10.8	10.7	80.89	282.3	-322.4	200.3	184.2	16.11	12.432		
3,325.0	3,284.6	3,305.3	3,265.5	10.9	10.8	80.95	284.6	-328.0	201.2	185.0	16.22	12.400		
3,400.0	3,357.4	3,380.2	3,338.2	11.2	11.1	81.13	291.5	-344.8	203.9	187.3	16.56	12.308		
3,420.0	3,376.8	3,400.2	3,357.6	11.3	11.2	81.18	293.4	-349.2	204.6	187.9	16.65	12.284		
3,500.0	3,454.4	3,480.1	3,435.2	11.6	11.6	81.36	300.8	-367.1	207.4	190.4	17.02	12.189		
3,515.0	3,469.0	3,495.1	3,449.7	11.7	11.6	81.40	302.1	-370.4	208.0	190.9	17.09	12.171		
3,600.0	3,551.5	3,580.1	3,532.1	12.1	12.0	81.59	310.0	-389.4	211.0	193.6	17.48	12.073		
3,610.0	3,561.2	3,590.1	3,541.8	12.1	12.0	81.61	310.9	-391.7	211.4	193.9	17.53	12.061		
3,700.0	3,648.5	3,680.0	3,629.1	12.5	12.4	81.80	319.2	-411.8	214.6	196.7	17.94	11.961		
3,705.0	3,653.3	3,685.0	3,634.0	12.5	12.5	81.81	319.7	-412.9	214.8	196.8	17.97	11.955		
3,800.0	3,745.5	3,779.9	3,726.1	13.0	12.9	82.01	328.5	-434.1	218.2	199.8	18.41	11.852		
3,895.0	3,837.7	3,874.9	3,818.2	13.4	13.3	82.20	337.3	-455.3	221.6	202.8	18.86	11.753		
3,900.0	3,842.5	3,879.9	3,823.0	13.4	13.3	82.21	337.7	-456.5	221.8	202.9	18.88	11.748		
3,990.0	3,929.9	3,969.8	3,910.3	13.8	13.7	82.39	346.0	-476.6	225.1	205.8	19.31	11.657		
4,000.0	3,939.6	3,979.8	3,920.0	13.9	13.8	82.41	347.0	-478.8	225.4	206.1	19.35	11.647		
4,085.0	4,022.1	4,064.7	4,002.4	14.3	14.2	82.57	354.8	-497.8	228.5	208.7	19.76	11.564		
4,100.0	4,036.6	4,079.7	4,017.0	14.3	14.2	82.60	356.2	-501.1	229.0	209.2	19.83	11.550		
4,180.0	4,114.2	4,159.7	4,094.5	14.7	14.6	82.75	363.6	-519.0	231.9	211.7	20.21	11.475		
4,200.0	4,133.6	4,179.7	4,113.9	14.8	14.7	82.78	365.4	-523.5	232.6	212.3	20.31	11.456		
4,275.0	4,206.4	4,254.6	4,186.7	15.1	15.0	82.92	372.4	-540.2	235.3	214.7	20.67	11.388		
4,300.0	4,230.7	4,279.6	4,210.9	15.3	15.2	82.96	374.7	-545.8	236.2	215.5	20.79	11.366		
4,370.0	4,298.6	4,349.6	4,278.8	15.6	15.5	83.08	381.1	-561.4	238.8	217.6	21.12	11.304		
4,400.0	4,327.7	4,379.5	4,307.9	15.7	15.6	83.14	383.9	-568.1	239.8	218.6	21.27	11.278		
4,465.0	4,390.8	4,444.5	4,370.9	16.0	15.9	83.24	389.9	-582.7	242.2	220.6	21.58	11.223		
4,500.0	4,424.7	4,479.5	4,404.8	16.2	16.1	83.30	393.1	-590.5	243.5	221.7	21.75	11.194		
4,560.0	4,482.9	4,539.4	4,463.0	16.5	16.4	83.40	398.7	-603.9	245.6	223.6	22.04	11.145		
4,600.0	4,521.8	4,579.4	4,501.8	16.6	16.6	83.47	402.4	-612.8	247.1	224.8	22.23	11.113		
4,655.0	4,575.1	4,634.4	4,555.1	16.9	16.8	83.55	407.5	-625.1	249.1	226.6	22.50	11.069		
4,700.0	4,618.8	4,679.3	4,598.8	17.1	17.0	83.62	411.6	-635.2	250.7	228.0	22.72	11.035		
4,750.0	4,667.3	4,729.3	4,647.2	17.3	17.3	83.70	416.2	-646.3	252.5	229.5	22.96	10.996		
4,800.0	4,715.8	4,779.3	4,695.7	17.6	17.5	83.78	420.9	-657.5	254.3	231.1	23.21	10.959		
4,845.0	4,759.5	4,824.2	4,739.4	17.8	17.7	83.85	425.0	-667.6	255.9	232.5	23.43	10.926		
4,900.0	4,812.8	4,879.2	4,792.7	18.0	18.0	83.93	430.1	-679.8	257.9	234.2	23.69	10.886		
4,940.0	4,851.7	4,919.2	4,831.5	18.2	18.1	83.99	433.8	-688.8	259.4	235.5	23.89	10.857		
5,000.0	4,909.9	4,979.1	4,889.6	18.5	18.4	84.07	439.3	-702.2	261.5	237.4	24.18	10.815		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
5,035.0	4,943.8	5,014.1	4,923.6	18.7	18.6	84.12	442.6	-710.0	262.8	238.5	24.36	10.791
5,100.0	5,006.9	5,079.1	4,986.6	19.0	18.9	84.21	448.6	-724.5	265.2	240.5	24.67	10.747
5,130.0	5,036.0	5,109.0	5,015.7	19.1	19.0	84.26	451.3	-731.2	266.3	241.4	24.82	10.727
5,200.0	5,103.9	5,179.0	5,083.6	19.5	19.4	84.35	457.8	-746.9	268.8	243.6	25.17	10.681
5,225.0	5,128.2	5,204.0	5,107.8	19.6	19.5	84.38	460.1	-752.4	269.7	244.4	25.29	10.665
5,300.0	5,201.0	5,278.9	5,180.5	19.9	19.8	84.48	467.0	-769.2	272.4	246.8	25.66	10.617
5,320.0	5,220.4	5,298.9	5,199.9	20.0	19.9	84.51	468.9	-773.7	273.1	247.4	25.76	10.605
5,400.0	5,298.0	5,378.9	5,277.5	20.4	20.3	84.62	476.3	-791.5	276.1	249.9	26.15	10.556
5,415.0	5,312.5	5,393.8	5,292.0	20.5	20.4	84.63	477.7	-794.9	276.6	250.4	26.23	10.546
5,500.0	5,395.0	5,478.8	5,374.5	20.9	20.8	84.74	485.5	-813.9	279.7	253.0	26.65	10.496
5,510.0	5,404.7	5,488.8	5,384.2	20.9	20.8	84.75	486.4	-816.1	280.0	253.3	26.70	10.490
5,600.0	5,492.0	5,578.7	5,471.4	21.4	21.3	84.87	494.8	-836.2	283.3	256.2	27.14	10.438
5,605.0	5,496.9	5,583.7	5,476.3	21.4	21.3	84.87	495.2	-837.3	283.5	256.3	27.17	10.435
5,700.0	5,589.1	5,678.7	5,568.4	21.8	21.7	84.99	504.0	-858.5	286.9	259.3	27.64	10.382
5,795.0	5,681.3	5,773.6	5,660.5	22.3	22.2	85.10	512.8	-879.8	290.4	262.3	28.11	10.331
5,800.0	5,686.1	5,778.6	5,665.4	22.3	22.2	85.10	513.2	-880.9	290.6	262.4	28.13	10.328
5,890.0	5,773.4	5,868.5	5,752.6	22.7	22.7	85.21	521.6	-901.0	293.8	265.3	28.58	10.281
5,900.0	5,783.1	5,878.5	5,762.3	22.8	22.7	85.22	522.5	-903.2	294.2	265.6	28.63	10.275
5,985.0	5,865.6	5,963.5	5,844.7	23.2	23.1	85.31	530.3	-922.2	297.3	268.2	29.06	10.232
6,000.0	5,880.2	5,978.4	5,859.3	23.3	23.2	85.33	531.7	-925.6	297.8	268.7	29.13	10.224
6,080.0	5,957.8	6,058.4	5,936.9	23.7	23.6	85.42	539.1	-943.4	300.8	271.2	29.53	10.185
6,100.0	5,977.2	6,078.4	5,956.3	23.8	23.7	85.44	541.0	-947.9	301.5	271.9	29.63	10.175
6,175.0	6,050.0	6,153.3	6,029.0	24.1	24.0	85.52	547.9	-964.7	304.2	274.2	30.00	10.139
6,200.0	6,074.2	6,178.3	6,053.2	24.2	24.1	85.55	550.2	-970.2	305.1	275.0	30.13	10.127
6,270.0	6,142.1	6,249.0	6,121.8	24.6	24.5	85.65	556.7	-985.9	307.6	277.2	30.46	10.098
6,300.0	6,171.2	6,279.7	6,151.8	24.7	24.6	85.77	559.3	-992.3	308.6	278.0	30.60	10.087
6,365.0	6,234.3	6,346.2	6,216.8	25.0	24.9	86.23	564.6	-1,005.2	310.5	279.7	30.85	10.066
6,400.0	6,268.3	6,381.9	6,251.8	25.2	25.1	86.59	567.3	-1,011.5	311.4	280.5	30.96	10.057
6,460.0	6,326.5	6,443.1	6,312.0	25.5	25.4	87.39	571.4	-1,021.5	312.8	281.7	31.13	10.047
6,500.0	6,365.3	6,483.8	6,352.2	25.7	25.6	88.05	573.8	-1,027.4	313.6	282.4	31.23	10.043
6,555.0	6,418.7	6,539.5	6,407.4	25.9	25.8	89.11	576.8	-1,034.7	314.7	283.3	31.34	10.040
6,600.0	6,462.3	6,584.9	6,452.5	26.2	26.0	90.11	579.0	-1,039.9	315.5	284.1	31.43	10.038
6,650.0	6,510.8	6,635.2	6,502.4	26.4	26.2	91.36	581.1	-1,044.9	316.4	284.9	31.52	10.036
6,700.0	6,559.4	6,685.2	6,552.3	26.6	26.4	92.76	582.8	-1,049.0	317.4	285.7	31.63	10.032
6,745.0	6,603.0	6,730.0	6,596.9	26.9	26.6	94.13	584.0	-1,052.1	318.3	286.6	31.74	10.028
6,772.7	6,629.9	6,757.4	6,624.3	27.0	26.7	95.03	584.7	-1,053.6	319.0	287.2	31.83	10.023
6,800.0	6,656.4	6,784.4	6,651.2	27.1	26.8	95.94	585.2	-1,054.9	319.7	287.8	31.92	10.018
6,840.0	6,695.4	6,823.9	6,690.7	27.3	26.9	97.27	585.8	-1,056.4	320.9	288.8	32.08	10.003
6,900.0	6,754.1	6,882.8	6,749.6	27.6	27.1	99.25	586.3	-1,057.6	322.7	290.3	32.37	9.969
6,935.0	6,788.4	6,917.1	6,783.9	27.8	27.2	100.39	586.4	-1,057.8	323.9	291.3	32.56	9.948
7,000.0	6,852.4	6,981.1	6,847.9	28.1	27.2	102.37	586.4	-1,057.8	326.1	293.2	32.94	9.900
7,030.0	6,882.0	7,010.7	6,877.5	28.2	27.2	103.20	586.4	-1,057.8	327.2	294.1	33.13	9.878
7,100.0	6,951.3	7,080.0	6,946.8	28.5	27.2	104.91	586.4	-1,057.8	329.7	296.1	33.57	9.820
7,125.0	6,976.1	7,104.8	6,971.6	28.6	27.2	105.45	586.4	-1,057.8	330.5	296.8	33.72	9.800
7,200.0	7,050.7	7,179.4	7,046.2	29.0	27.3	106.83	586.4	-1,057.8	332.7	298.6	34.16	9.741
7,220.0	7,070.6	7,199.3	7,066.1	29.0	27.3	107.14	586.4	-1,057.8	333.3	299.0	34.26	9.727
7,300.0	7,150.4	7,279.1	7,145.9	29.3	27.3	108.14	586.4	-1,057.8	335.1	300.4	34.65	9.672
7,315.0	7,165.3	7,294.1	7,160.8	29.4	27.3	108.29	586.4	-1,057.8	335.4	300.7	34.71	9.663
7,400.0	7,250.3	7,379.0	7,245.8	29.7	27.3	108.86	586.4	-1,057.8	336.4	301.5	35.00	9.614
7,410.0	7,260.3	7,389.0	7,255.8	29.7	27.3	108.90	586.4	-1,057.8	336.5	301.5	35.02	9.610
7,472.7	7,323.0	7,451.7	7,318.5	29.8	27.3	109.76	586.4	-1,057.8	336.7	301.6	35.13	9.586

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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)		
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)			
7,500.0	7,350.3	7,479.0	7,345.8	29.8	27.4	32.76	586.4	-1,057.8	336.7	301.6	35.15	9.580	
7,505.0	7,355.3	7,484.0	7,350.8	29.8	27.4	32.76	586.4	-1,057.8	336.7	301.6	35.16	9.578	
7,600.0	7,450.3	7,579.0	7,445.8	29.8	27.4	32.76	586.4	-1,057.8	336.7	301.5	35.26	9.550	
7,695.0	7,545.3	7,674.0	7,540.8	29.8	27.4	32.76	586.4	-1,057.8	336.7	301.4	35.37	9.522	
7,700.0	7,550.3	7,679.0	7,545.8	29.8	27.4	32.76	586.4	-1,057.8	336.7	301.4	35.37	9.520	
7,790.0	7,640.3	7,769.0	7,635.8	29.9	27.4	32.76	586.4	-1,057.8	336.7	301.3	35.47	9.493	
7,800.0	7,650.3	7,779.0	7,645.8	29.9	27.5	32.76	586.4	-1,057.8	336.7	301.3	35.48	9.491	
7,885.0	7,735.3	7,864.0	7,730.8	29.9	27.5	32.76	586.4	-1,057.8	336.7	301.2	35.58	9.465	
7,900.0	7,750.3	7,879.0	7,745.8	29.9	27.5	32.76	586.4	-1,057.8	336.7	301.2	35.59	9.461	
7,980.0	7,830.3	7,959.0	7,825.8	29.9	27.5	32.76	586.4	-1,057.8	336.7	301.1	35.68	9.437	
8,000.0	7,850.3	7,979.0	7,845.8	29.9	27.5	32.76	586.4	-1,057.8	336.7	301.0	35.70	9.431	
8,075.0	7,925.3	8,054.0	7,920.8	30.0	27.5	32.76	586.4	-1,057.8	336.7	301.0	35.79	9.409	
8,100.0	7,950.3	8,079.0	7,945.8	30.0	27.6	32.76	586.4	-1,057.8	336.7	300.9	35.82	9.402	
8,170.0	8,020.3	8,149.0	8,015.8	30.0	27.6	32.76	586.4	-1,057.8	336.7	300.9	35.89	9.381	
8,200.0	8,050.3	8,179.0	8,045.8	30.0	27.6	32.76	586.4	-1,057.8	336.7	300.8	35.93	9.373	
8,265.0	8,115.3	8,244.0	8,110.8	30.0	27.6	32.76	586.4	-1,057.8	336.7	300.7	36.00	9.354	
8,300.0	8,150.3	8,279.0	8,145.8	30.0	27.6	32.76	586.4	-1,057.8	336.7	300.7	36.04	9.343	
8,360.0	8,210.3	8,339.0	8,205.8	30.0	27.6	32.76	586.4	-1,057.8	336.7	300.6	36.11	9.326	
8,400.0	8,250.3	8,379.0	8,245.8	30.1	27.7	32.76	586.4	-1,057.8	336.7	300.6	36.15	9.314	
8,455.0	8,305.3	8,434.0	8,300.8	30.1	27.7	32.76	586.4	-1,057.8	336.7	300.5	36.22	9.298	
8,500.0	8,350.3	8,479.0	8,345.8	30.1	27.7	32.76	586.4	-1,057.8	336.7	300.5	36.27	9.285	
8,529.8	8,380.0	8,508.8	8,375.5	30.1	27.7	32.76	586.4	-1,057.8	336.7	300.5	36.29	9.279	
8,550.0	8,400.3	8,529.0	8,395.8	30.1	27.7	-147.73	586.4	-1,057.8	337.0	300.8	36.30	9.286	
8,600.0	8,450.1	8,578.8	8,445.6	30.1	27.7	-147.91	586.4	-1,057.8	340.4	304.1	36.29	9.380	
8,645.0	8,494.5	8,623.2	8,490.0	30.1	27.7	-148.22	586.4	-1,057.8	346.6	310.3	36.22	9.570	
8,650.0	8,499.4	8,628.1	8,494.9	30.1	27.7	-148.26	586.4	-1,057.8	347.4	311.2	36.20	9.597	
8,700.0	8,547.8	8,676.5	8,543.3	30.1	27.8	-148.74	586.4	-1,057.8	358.2	322.2	36.06	9.934	
8,740.0	8,585.6	8,714.3	8,581.1	30.1	27.8	-149.17	586.4	-1,057.8	369.5	333.6	35.92	10.287	
8,750.0	8,594.9	8,723.6	8,590.4	30.1	27.8	-149.28	586.4	-1,057.8	372.8	336.9	35.89	10.387	
8,800.0	8,640.4	8,769.1	8,635.9	30.1	27.8	-149.83	586.4	-1,057.8	391.1	355.3	35.72	10.949	
8,835.0	8,671.0	8,799.8	8,666.5	30.1	27.8	-150.17	586.4	-1,057.8	406.1	370.5	35.61	11.404	
8,850.0	8,683.8	8,812.6	8,679.3	30.1	27.8	-150.30	586.4	-1,057.8	413.1	377.5	35.57	11.614	
8,900.0	8,725.0	8,853.8	8,720.5	30.2	27.8	-150.63	586.4	-1,057.8	438.8	403.3	35.46	12.374	
8,930.0	8,748.5	8,877.2	8,744.0	30.2	27.8	-150.72	586.4	-1,057.8	455.9	420.4	35.41	12.872	
8,950.0	8,763.6	8,892.3	8,759.1	30.2	27.8	-150.73	586.4	-1,057.8	468.0	432.6	35.40	13.221	
9,000.0	8,799.2	8,927.9	8,794.7	30.2	27.8	-150.54	586.4	-1,057.8	500.5	465.1	35.38	14.146	
9,025.0	8,815.9	8,944.6	8,811.4	30.2	27.9	-150.30	586.4	-1,057.8	517.9	482.6	35.39	14.637	
9,050.0	8,831.7	8,960.4	8,827.2	30.2	27.9	-149.94	586.4	-1,057.8	536.1	500.7	35.41	15.143	
9,100.0	8,860.7	8,989.4	8,856.2	30.2	27.9	-148.81	586.4	-1,057.8	574.7	539.2	35.46	16.204	
9,120.0	8,871.3	9,000.0	8,866.8	30.2	27.9	-148.16	586.4	-1,057.8	590.8	555.3	35.49	16.645	
9,150.0	8,886.0	9,014.8	8,881.5	30.3	27.9	-146.93	586.4	-1,057.8	615.7	580.2	35.55	17.321	
9,200.0	8,907.5	9,036.3	8,903.0	30.3	27.9	-144.00	586.4	-1,057.8	659.0	623.4	35.64	18.488	
9,215.0	8,913.2	9,041.9	8,908.7	30.3	27.9	-142.83	586.4	-1,057.8	672.4	636.7	35.68	18.847	
9,250.0	8,925.0	9,053.7	8,920.5	30.3	27.9	-139.44	586.4	-1,057.8	704.2	668.4	35.75	19.697	
9,300.0	8,938.4	9,067.1	8,933.9	30.4	27.9	-132.31	586.4	-1,057.8	750.8	715.0	35.86	20.940	
9,310.0	8,940.5	9,069.2	8,936.0	30.4	27.9	-130.45	586.4	-1,057.8	760.3	724.4	35.88	21.193	
9,350.0	8,947.5	9,076.2	8,943.0	30.4	27.9	-120.99	586.4	-1,057.8	798.6	762.7	35.96	22.211	
9,400.0	8,952.2	9,080.6	8,948.0	30.5	28.8	-167.59	-240.9	-1,064.6	838.0	795.2	42.77	19.592	
9,405.0	8,952.5	9,085.6	8,948.6	30.5	28.8	-167.59	-245.9	-1,064.7	837.8	795.0	42.79	19.577	
9,429.3	8,953.0	9,050.9	8,948.6	30.5	28.8	-167.60	-270.2	-1,064.9	837.3	794.4	42.89	19.521	
9,500.0	8,953.1	9,050.6	8,948.6	30.6	29.0	-167.60	-340.8	-1,065.5	837.2	794.1	43.17	19.392	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:												Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	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
9,595.0	8,953.1	10,675.6	9,766.3	30.7	29.1	-167.59	-167.59	-435.8	-1,066.3	837.2	793.6	43.60	19.201
9,600.0	8,953.1	10,680.6	9,766.3	30.7	29.1	-167.59	-167.59	-440.8	-1,066.3	837.2	793.6	43.63	19.191
9,690.0	8,953.2	10,770.6	9,766.4	30.9	29.3	-167.59	-167.59	-530.8	-1,067.0	837.2	793.2	44.08	18.994
9,700.0	8,953.2	10,780.6	9,766.4	30.9	29.3	-167.59	-167.59	-540.8	-1,067.1	837.2	793.1	44.13	18.972
9,785.0	8,953.3	10,865.6	9,766.5	31.0	29.5	-167.59	-167.59	-625.8	-1,067.8	837.2	792.6	44.60	18.772
9,800.0	8,953.3	10,880.6	9,766.5	31.1	29.5	-167.59	-167.59	-640.8	-1,067.9	837.2	792.5	44.68	18.737
9,880.0	8,953.4	10,960.6	9,766.5	31.2	29.7	-167.59	-167.59	-720.8	-1,068.6	837.2	792.1	45.16	18.538
9,900.0	8,953.4	10,980.6	9,766.5	31.2	29.8	-167.59	-167.59	-740.8	-1,068.8	837.2	791.9	45.28	18.489
9,975.0	8,953.4	11,055.6	9,766.6	31.4	29.9	-167.59	-167.59	-815.8	-1,069.4	837.2	791.4	45.77	18.293
10,000.0	8,953.5	11,080.6	9,766.6	31.5	30.0	-167.59	-167.59	-840.8	-1,069.6	837.2	791.3	45.93	18.228
10,070.0	8,953.5	11,150.6	9,766.7	31.6	30.2	-167.59	-167.59	-910.8	-1,070.2	837.2	790.8	46.41	18.039
10,100.0	8,953.5	11,180.6	9,766.7	31.7	30.3	-167.59	-167.59	-940.8	-1,070.4	837.2	790.6	46.62	17.959
10,165.0	8,953.6	11,245.6	9,766.7	31.8	30.4	-167.59	-167.59	-1,005.8	-1,071.0	837.2	790.1	47.09	17.778
10,200.0	8,953.6	11,280.6	9,766.8	31.9	30.5	-167.59	-167.59	-1,040.8	-1,071.3	837.2	789.8	47.35	17.681
10,260.0	8,953.7	11,340.6	9,766.8	32.1	30.7	-167.59	-167.59	-1,100.8	-1,071.8	837.2	789.4	47.81	17.510
10,300.0	8,953.7	11,380.6	9,766.8	32.2	30.8	-167.59	-167.59	-1,140.8	-1,072.1	837.2	789.1	48.12	17.397
10,355.0	8,953.7	11,435.6	9,766.9	32.3	31.0	-167.59	-167.59	-1,195.8	-1,072.5	837.2	788.6	48.57	17.238
10,400.0	8,953.8	11,480.6	9,766.9	32.4	31.1	-167.59	-167.59	-1,240.8	-1,072.9	837.2	788.2	48.93	17.109
10,450.0	8,953.8	11,530.6	9,766.9	32.6	31.3	-167.59	-167.59	-1,290.8	-1,073.3	837.2	787.8	49.35	16.963
10,500.0	8,953.9	11,580.6	9,767.0	32.7	31.4	-167.59	-167.59	-1,340.8	-1,073.7	837.2	787.4	49.78	16.818
10,545.0	8,953.9	11,625.6	9,767.0	32.8	31.6	-167.59	-167.59	-1,385.8	-1,074.1	837.2	787.0	50.17	16.686
10,600.0	8,953.9	11,680.6	9,767.1	33.0	31.7	-167.59	-167.59	-1,440.8	-1,074.6	837.2	786.5	50.66	16.526
10,640.0	8,954.0	11,720.6	9,767.1	33.1	31.9	-167.59	-167.59	-1,480.8	-1,074.9	837.2	786.1	51.02	16.408
10,700.0	8,954.0	11,780.6	9,767.1	33.3	32.1	-167.59	-167.59	-1,540.8	-1,075.4	837.2	785.6	51.57	16.233
10,735.0	8,954.0	11,815.6	9,767.1	33.4	32.2	-167.59	-167.59	-1,575.8	-1,075.7	837.2	785.3	51.90	16.130
10,800.0	8,954.1	11,880.6	9,767.2	33.6	32.4	-167.59	-167.59	-1,640.8	-1,076.2	837.1	784.6	52.51	15.941
10,830.0	8,954.1	11,910.6	9,767.2	33.7	32.5	-167.59	-167.59	-1,670.8	-1,076.5	837.1	784.3	52.80	15.853
10,900.0	8,954.2	11,980.6	9,767.3	34.0	32.8	-167.59	-167.59	-1,740.8	-1,077.0	837.1	783.6	53.49	15.651
10,925.0	8,954.2	12,005.6	9,767.3	34.0	32.9	-167.59	-167.59	-1,765.8	-1,077.3	837.1	783.4	53.74	15.578
11,000.0	8,954.3	12,080.6	9,767.3	34.3	33.2	-167.59	-167.59	-1,840.8	-1,077.9	837.1	782.6	54.49	15.363
11,020.0	8,954.3	12,100.6	9,767.4	34.4	33.2	-167.59	-167.59	-1,860.8	-1,078.0	837.1	782.4	54.69	15.306
11,100.0	8,954.3	12,180.6	9,767.4	34.7	33.6	-167.59	-167.59	-1,940.8	-1,078.7	837.1	781.6	55.52	15.079
11,115.0	8,954.4	12,195.6	9,767.4	34.7	33.6	-167.59	-167.59	-1,955.8	-1,078.8	837.1	781.4	55.67	15.036
11,200.0	8,954.4	12,280.6	9,767.5	35.0	34.0	-167.59	-167.59	-2,040.8	-1,079.5	837.1	780.5	56.57	14.798
11,210.0	8,954.4	12,290.6	9,767.5	35.1	34.0	-167.59	-167.59	-2,050.8	-1,079.6	837.1	780.4	56.68	14.770
11,300.0	8,954.5	12,380.6	9,767.6	35.4	34.4	-167.59	-167.59	-2,140.8	-1,080.4	837.1	779.5	57.64	14.522
11,305.0	8,954.5	12,385.6	9,767.6	35.4	34.4	-167.59	-167.59	-2,145.8	-1,080.4	837.1	779.4	57.70	14.508
11,400.0	8,954.6	12,480.6	9,767.6	35.8	34.8	-167.59	-167.59	-2,240.8	-1,081.2	837.1	778.4	58.74	14.250
11,495.0	8,954.7	12,575.6	9,767.7	36.2	35.2	-167.59	-167.59	-2,335.8	-1,082.0	837.1	777.3	59.81	13.997
11,500.0	8,954.7	12,580.6	9,767.7	36.2	35.2	-167.59	-167.59	-2,340.8	-1,082.0	837.1	777.2	59.86	13.984
11,590.0	8,954.7	12,670.6	9,767.8	36.6	35.6	-167.59	-167.59	-2,430.8	-1,082.8	837.1	776.2	60.89	13.748
11,600.0	8,954.7	12,680.6	9,767.8	36.6	35.7	-167.59	-167.59	-2,440.8	-1,082.8	837.1	776.1	61.00	13.723
11,685.0	8,954.8	12,765.6	9,767.8	37.0	36.1	-167.59	-167.59	-2,525.8	-1,083.5	837.1	775.1	61.98	13.505
11,700.0	8,954.8	12,780.6	9,767.8	37.1	36.1	-167.59	-167.59	-2,540.8	-1,083.7	837.1	774.9	62.16	13.467
11,780.0	8,954.9	12,860.6	9,767.9	37.4	36.5	-167.59	-167.59	-2,620.8	-1,084.3	837.1	774.0	63.10	13.266
11,800.0	8,954.9	12,880.6	9,767.9	37.5	36.6	-167.59	-167.59	-2,640.8	-1,084.5	837.1	773.7	63.33	13.217
11,875.0	8,955.0	12,955.6	9,768.0	37.8	37.0	-167.59	-167.59	-2,715.8	-1,085.1	837.1	772.8	64.23	13.033
11,900.0	8,955.0	12,980.6	9,768.0	37.9	37.1	-167.59	-167.59	-2,740.8	-1,085.3	837.1	772.5	64.52	12.973
11,970.0	8,955.0	13,050.6	9,768.0	38.3	37.4	-167.59	-167.59	-2,810.8	-1,085.9	837.1	771.7	65.37	12.805
12,000.0	8,955.1	13,080.6	9,768.1	38.4	37.6	-167.59	-167.59	-2,840.8	-1,086.1	837.1	771.3	65.73	12.734
12,065.0	8,955.1	13,145.6	9,768.1	38.7	37.9	-167.59	-167.59	-2,905.8	-1,086.7	837.0	770.5	66.53	12.582

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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS						Rule Assigned:						Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,100.0	8,955.1	13,180.6	9,768.1	38.9	38.1	-167.59	-2,940.8	-1,087.0	837.0	770.1	66.95	12.502			
12,160.0	8,955.2	13,240.6	9,768.2	39.2	38.4	-167.59	-3,000.8	-1,087.5	837.0	769.3	67.69	12.365			
12,200.0	8,955.2	13,280.6	9,768.2	39.3	38.6	-167.59	-3,040.8	-1,087.8	837.0	768.8	68.19	12.275			
12,255.0	8,955.3	13,335.6	9,768.2	39.6	38.8	-167.59	-3,095.8	-1,088.3	837.0	768.2	68.88	12.153			
12,300.0	8,955.3	13,380.6	9,768.3	39.8	39.1	-167.59	-3,140.8	-1,088.6	837.0	767.6	69.44	12.054			
12,350.0	8,955.3	13,430.6	9,768.3	40.1	39.3	-167.59	-3,190.7	-1,089.0	837.0	767.0	70.07	11.945			
12,400.0	8,955.4	13,480.6	9,768.4	40.3	39.6	-167.59	-3,240.7	-1,089.5	837.0	766.3	70.70	11.839			
12,445.0	8,955.4	13,525.6	9,768.4	40.5	39.8	-167.59	-3,285.7	-1,089.8	837.0	765.7	71.28	11.743			
12,500.0	8,955.5	13,580.6	9,768.4	40.8	40.1	-167.59	-3,340.7	-1,090.3	837.0	765.0	71.98	11.629			
12,540.0	8,955.5	13,620.6	9,768.5	41.0	40.3	-167.59	-3,380.7	-1,090.6	837.0	764.5	72.49	11.546			
12,600.0	8,955.6	13,680.6	9,768.5	41.3	40.7	-167.59	-3,440.7	-1,091.1	837.0	763.7	73.26	11.425			
12,635.0	8,955.6	13,715.6	9,768.5	41.5	40.9	-167.59	-3,475.7	-1,091.4	837.0	763.3	73.72	11.354			
12,700.0	8,955.6	13,780.6	9,768.6	41.8	41.2	-167.59	-3,540.7	-1,091.9	837.0	762.4	74.56	11.226			
12,730.0	8,955.7	13,810.6	9,768.6	42.0	41.4	-167.59	-3,570.7	-1,092.2	837.0	762.0	74.95	11.167			
12,800.0	8,955.7	13,880.6	9,768.6	42.4	41.8	-167.59	-3,640.7	-1,092.8	837.0	761.1	75.87	11.032			
12,825.0	8,955.7	13,905.6	9,768.7	42.5	41.9	-167.59	-3,665.7	-1,093.0	837.0	760.8	76.19	10.985			
12,900.0	8,955.8	13,980.6	9,768.7	42.9	42.3	-167.59	-3,740.7	-1,093.6	837.0	759.8	77.18	10.844			
12,920.0	8,955.8	14,000.6	9,768.7	43.0	42.4	-167.59	-3,760.7	-1,093.8	837.0	759.5	77.45	10.807			
13,000.0	8,955.9	14,080.6	9,768.8	43.4	42.9	-167.59	-3,840.7	-1,094.4	837.0	758.5	78.51	10.661			
13,015.0	8,955.9	14,095.6	9,768.8	43.5	43.0	-167.59	-3,855.7	-1,094.5	837.0	758.3	78.71	10.634			
13,100.0	8,956.0	14,180.6	9,768.9	44.0	43.5	-167.59	-3,940.7	-1,095.2	837.0	757.1	79.84	10.483			
13,110.0	8,956.0	14,190.6	9,768.9	44.0	43.5	-167.59	-3,950.7	-1,095.3	837.0	757.0	79.98	10.465			
13,200.0	8,956.0	14,280.6	9,768.9	44.5	44.0	-167.59	-4,040.7	-1,096.1	837.0	755.8	81.19	10.309			
13,205.0	8,956.0	14,285.6	9,768.9	44.6	44.1	-167.59	-4,045.7	-1,096.1	837.0	755.7	81.25	10.301			
13,300.0	8,956.1	14,380.6	9,769.0	45.1	44.6	-167.59	-4,140.7	-1,096.9	837.0	754.4	82.54	10.140			
13,395.0	8,956.2	14,475.6	9,769.1	45.6	45.2	-167.59	-4,235.7	-1,097.7	836.9	753.1	83.83	9.984			
13,400.0	8,956.2	14,480.6	9,769.1	45.7	45.2	-167.59	-4,240.7	-1,097.7	836.9	753.0	83.90	9.976			
13,490.0	8,956.3	14,570.6	9,769.1	46.2	45.7	-167.59	-4,330.7	-1,098.5	836.9	751.8	85.12	9.832			
13,500.0	8,956.3	14,580.6	9,769.2	46.2	45.8	-167.59	-4,340.7	-1,098.5	836.9	751.7	85.26	9.816			
13,585.0	8,956.3	14,665.6	9,769.2	46.7	46.3	-167.59	-4,425.7	-1,099.3	836.9	750.5	86.43	9.684			
13,600.0	8,956.4	14,680.6	9,769.2	46.8	46.4	-167.59	-4,440.7	-1,099.4	836.9	750.3	86.63	9.661			
13,680.0	8,956.4	14,760.6	9,769.3	47.3	46.9	-167.59	-4,520.7	-1,100.0	836.9	749.2	87.74	9.539			
13,700.0	8,956.4	14,780.6	9,769.3	47.4	47.0	-167.59	-4,540.7	-1,100.2	836.9	748.9	88.01	9.509			
13,775.0	8,956.5	14,855.6	9,769.3	47.8	47.5	-167.59	-4,615.7	-1,100.8	836.9	747.9	89.05	9.398			
13,800.0	8,956.5	14,880.6	9,769.4	48.0	47.6	-167.59	-4,640.7	-1,101.0	836.9	747.5	89.40	9.362			
13,870.0	8,956.6	14,950.6	9,769.4	48.4	48.0	-167.59	-4,710.7	-1,101.6	836.9	746.5	90.37	9.261			
13,900.0	8,956.6	14,980.6	9,769.4	48.5	48.2	-167.59	-4,740.7	-1,101.9	836.9	746.1	90.79	9.218			
13,965.0	8,956.6	15,045.6	9,769.5	48.9	48.6	-167.59	-4,805.7	-1,102.4	836.9	745.2	91.70	9.127			
14,000.0	8,956.7	15,080.6	9,769.5	49.1	48.9	-167.59	-4,840.7	-1,102.7	836.9	744.7	92.18	9.079			
14,060.0	8,956.7	15,140.6	9,769.6	49.5	49.2	-167.59	-4,900.7	-1,103.2	836.9	743.9	93.03	8.996			
14,100.0	8,956.8	15,180.6	9,769.6	49.7	49.5	-167.59	-4,940.7	-1,103.5	836.9	743.3	93.59	8.942			
14,155.0	8,956.8	15,235.6	9,769.6	50.1	49.8	-167.59	-4,995.7	-1,104.0	836.9	742.5	94.36	8.869			
14,200.0	8,956.8	15,280.6	9,769.7	50.3	50.1	-167.59	-5,040.7	-1,104.3	836.9	741.9	94.99	8.810			
14,250.0	8,956.9	15,330.6	9,769.7	50.6	50.4	-167.59	-5,090.7	-1,104.7	836.9	741.2	95.70	8.745			
14,300.0	8,956.9	15,380.6	9,769.7	50.9	50.7	-167.59	-5,140.7	-1,105.2	836.9	740.5	96.41	8.681			
14,345.0	8,957.0	15,425.6	9,769.8	51.2	51.0	-167.59	-5,185.7	-1,105.5	836.9	739.8	97.04	8.624			
14,400.0	8,957.0	15,480.6	9,769.8	51.6	51.4	-167.59	-5,240.7	-1,106.0	836.9	739.0	97.82	8.555			
14,440.0	8,957.0	15,520.6	9,769.8	51.8	51.6	-167.59	-5,280.7	-1,106.3	836.9	738.5	98.39	8.506			
14,500.0	8,957.1	15,580.6	9,769.9	52.2	52.0	-167.59	-5,340.7	-1,106.8	836.9	737.6	99.24	8.432			
14,535.0	8,957.1	15,615.6	9,769.9	52.4	52.2	-167.59	-5,375.7	-1,107.1	836.9	737.1	99.74	8.390			
14,600.0	8,957.2	15,680.6	9,769.9	52.8	52.6	-167.59	-5,440.7	-1,107.6	836.8	736.2	100.67	8.313			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS				Rule Assigned:						Offset Well Error: 3.0 usft				
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
14,630.0	8,957.2	15,710.6	9,770.0	53.0	52.8	-167.59	-5,470.7	-1,107.9	836.8	735.7	101.10	8.278		
14,700.0	8,957.2	15,780.6	9,770.0	53.4	53.3	-167.59	-5,540.7	-1,108.5	836.8	734.7	102.10	8.196		
14,725.0	8,957.3	15,805.6	9,770.0	53.6	53.5	-167.59	-5,565.7	-1,108.7	836.8	734.4	102.46	8.168		
14,800.0	8,957.3	15,880.6	9,770.1	54.0	53.9	-167.59	-5,640.7	-1,109.3	836.8	733.3	103.53	8.083		
14,820.0	8,957.3	15,900.6	9,770.1	54.2	54.1	-167.59	-5,660.7	-1,109.5	836.8	733.0	103.82	8.060		
14,900.0	8,957.4	15,980.6	9,770.2	54.7	54.6	-167.59	-5,740.7	-1,110.1	836.8	731.9	104.97	7.972		
14,915.0	8,957.4	15,995.6	9,770.2	54.8	54.7	-167.59	-5,755.7	-1,110.2	836.8	731.6	105.19	7.956		
15,000.0	8,957.5	16,080.6	9,770.2	55.3	55.2	-167.59	-5,840.7	-1,111.0	836.8	730.4	106.41	7.864		
15,010.0	8,957.5	16,090.6	9,770.2	55.4	55.3	-167.59	-5,850.7	-1,111.0	836.8	730.3	106.56	7.853		
15,100.0	8,957.6	16,180.6	9,770.3	56.0	55.9	-167.59	-5,940.7	-1,111.8	836.8	729.0	107.86	7.759		
15,105.0	8,957.6	16,185.6	9,770.3	56.0	55.9	-167.59	-5,945.7	-1,111.8	836.8	728.9	107.93	7.753		
15,200.0	8,957.6	16,280.6	9,770.4	56.6	56.6	-167.59	-6,040.7	-1,112.6	836.8	727.5	109.30	7.656		
15,295.0	8,957.7	16,375.6	9,770.4	57.2	57.2	-167.59	-6,135.6	-1,113.4	836.8	726.1	110.68	7.560		
15,300.0	8,957.7	16,380.6	9,770.5	57.2	57.2	-167.59	-6,140.6	-1,113.4	836.8	726.0	110.76	7.555		
15,390.0	8,957.8	16,470.6	9,770.5	57.8	57.8	-167.59	-6,230.6	-1,114.2	836.8	724.7	112.07	7.467		
15,400.0	8,957.8	16,480.6	9,770.5	57.9	57.9	-167.59	-6,240.6	-1,114.3	836.8	724.6	112.21	7.457		
15,485.0	8,957.9	16,565.6	9,770.6	58.4	58.5	-167.59	-6,325.6	-1,115.0	836.8	723.3	113.45	7.376		
15,500.0	8,957.9	16,580.6	9,770.6	58.5	58.6	-167.59	-6,340.6	-1,115.1	836.8	723.1	113.67	7.362		
15,580.0	8,957.9	16,660.6	9,770.7	59.1	59.1	-167.59	-6,420.6	-1,115.7	836.8	721.9	114.84	7.287		
15,600.0	8,958.0	16,680.6	9,770.7	59.2	59.2	-167.59	-6,440.6	-1,115.9	836.8	721.6	115.13	7.268		
15,675.0	8,958.0	16,755.6	9,770.7	59.7	59.7	-167.59	-6,515.6	-1,116.5	836.8	720.5	116.23	7.199		
15,700.0	8,958.0	16,780.6	9,770.7	59.8	59.9	-167.59	-6,540.6	-1,116.7	836.8	720.2	116.59	7.177		
15,770.0	8,958.1	16,850.6	9,770.8	60.3	60.4	-167.59	-6,610.6	-1,117.3	836.8	719.1	117.62	7.114		
15,800.0	8,958.1	16,880.6	9,770.8	60.5	60.6	-167.59	-6,640.6	-1,117.6	836.8	718.7	118.06	7.088		
15,865.0	8,958.2	16,945.6	9,770.9	60.9	61.0	-167.58	-6,705.6	-1,118.1	836.8	717.7	119.01	7.031		
15,900.0	8,958.2	16,980.6	9,770.9	61.2	61.3	-167.58	-6,740.6	-1,118.4	836.7	717.2	119.53	7.001		
15,960.0	8,958.3	17,040.6	9,770.9	61.6	61.7	-167.58	-6,800.6	-1,118.9	836.7	716.3	120.41	6.949		
16,000.0	8,958.3	17,080.6	9,771.0	61.8	61.9	-167.58	-6,840.6	-1,119.2	836.7	715.7	121.00	6.915		
16,055.0	8,958.3	17,135.6	9,771.0	62.2	62.3	-167.58	-6,895.6	-1,119.7	836.7	714.9	121.81	6.869		
16,100.0	8,958.4	17,180.6	9,771.0	62.5	62.6	-167.58	-6,940.6	-1,120.0	836.7	714.3	122.47	6.832		
16,150.0	8,958.4	17,230.6	9,771.1	62.8	63.0	-167.58	-6,990.6	-1,120.5	836.7	713.5	123.21	6.791		
16,200.0	8,958.4	17,280.6	9,771.1	63.1	63.3	-167.58	-7,040.6	-1,120.9	836.7	712.8	123.95	6.751		
16,245.0	8,958.5	17,325.6	9,771.1	63.5	63.6	-167.58	-7,085.6	-1,121.2	836.7	712.1	124.61	6.715		
16,300.0	8,958.5	17,380.6	9,771.2	63.8	64.0	-167.58	-7,140.6	-1,121.7	836.7	711.3	125.42	6.671		
16,340.0	8,958.6	17,420.6	9,771.2	64.1	64.3	-167.58	-7,180.6	-1,122.0	836.7	710.7	126.01	6.640		
16,400.0	8,958.6	17,480.6	9,771.2	64.5	64.7	-167.58	-7,240.6	-1,122.5	836.7	709.8	126.90	6.593		
16,435.0	8,958.6	17,515.6	9,771.3	64.7	64.9	-167.58	-7,275.6	-1,122.8	836.7	709.3	127.42	6.566		
16,500.0	8,958.7	17,580.6	9,771.3	65.2	65.4	-167.58	-7,340.6	-1,123.4	836.7	708.3	128.38	6.517		
16,530.0	8,958.7	17,610.6	9,771.3	65.4	65.6	-167.58	-7,370.6	-1,123.6	836.7	707.9	128.83	6.495		
16,600.0	8,958.8	17,680.6	9,771.4	65.8	66.1	-167.58	-7,440.6	-1,124.2	836.7	706.8	129.87	6.443		
16,625.0	8,958.8	17,705.6	9,771.4	66.0	66.2	-167.58	-7,465.6	-1,124.4	836.7	706.5	130.24	6.424		
16,700.0	8,958.8	17,780.6	9,771.5	66.5	66.7	-167.58	-7,540.6	-1,125.0	836.7	705.3	131.35	6.370		
16,720.0	8,958.9	17,800.6	9,771.5	66.7	66.9	-167.58	-7,560.6	-1,125.2	836.7	705.0	131.65	6.355		
16,800.0	8,958.9	17,880.6	9,771.5	67.2	67.4	-167.58	-7,640.6	-1,125.8	836.7	703.8	132.84	6.298		
16,815.0	8,958.9	17,895.6	9,771.5	67.3	67.5	-167.58	-7,655.6	-1,126.0	836.7	703.6	133.07	6.288		
16,900.0	8,959.0	17,980.6	9,771.6	67.9	68.1	-167.58	-7,740.6	-1,126.7	836.7	702.3	134.33	6.228		
16,910.0	8,959.0	17,990.6	9,771.6	67.9	68.2	-167.58	-7,750.6	-1,126.7	836.7	702.2	134.48	6.221		
17,000.0	8,959.1	18,080.6	9,771.7	68.6	68.8	-167.58	-7,840.6	-1,127.5	836.7	700.8	135.82	6.160		
17,005.0	8,959.1	18,085.6	9,771.7	68.6	68.9	-167.58	-7,845.6	-1,127.5	836.7	700.8	135.90	6.157		
17,100.0	8,959.2	18,180.6	9,771.8	69.2	69.5	-167.58	-7,940.6	-1,128.3	836.7	699.3	137.32	6.093		
17,195.0	8,959.2	18,275.6	9,771.8	69.9	70.2	-167.58	-8,035.6	-1,129.1	836.6	697.9	138.74	6.030		

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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
17,200.0	8,959.3	18,280.6	9,771.8	69.9	70.2	-167.58	-8,040.6	-1,129.1	836.6	697.8	138.81	6.027
17,290.0	8,959.3	18,370.6	9,771.9	70.6	70.9	-167.58	-8,130.6	-1,129.9	836.6	696.5	140.16	5.969
17,300.0	8,959.3	18,380.6	9,771.9	70.6	70.9	-167.58	-8,140.6	-1,130.0	836.6	696.3	140.31	5.963
17,385.0	8,959.4	18,465.6	9,772.0	71.2	71.5	-167.58	-8,225.6	-1,130.7	836.6	695.1	141.58	5.909
17,400.0	8,959.4	18,480.6	9,772.0	71.3	71.6	-167.58	-8,240.6	-1,130.8	836.6	694.8	141.80	5.900
17,480.0	8,959.5	18,560.6	9,772.0	71.9	72.2	-167.58	-8,320.6	-1,131.5	836.6	693.6	143.00	5.850
17,500.0	8,959.5	18,580.6	9,772.0	72.0	72.3	-167.58	-8,340.6	-1,131.6	836.6	693.3	143.30	5.838
17,575.0	8,959.6	18,655.6	9,772.1	72.5	72.9	-167.58	-8,415.6	-1,132.2	836.6	692.2	144.43	5.793
17,600.0	8,959.6	18,680.6	9,772.1	72.7	73.0	-167.58	-8,440.6	-1,132.5	836.6	691.8	144.80	5.778
17,670.0	8,959.6	18,750.6	9,772.2	73.2	73.5	-167.58	-8,510.6	-1,133.0	836.6	690.8	145.86	5.736
17,700.0	8,959.7	18,780.6	9,772.2	73.4	73.7	-167.58	-8,540.6	-1,133.3	836.6	690.3	146.31	5.718
17,765.0	8,959.7	18,845.6	9,772.2	73.8	74.2	-167.58	-8,605.6	-1,133.8	836.6	689.3	147.28	5.680
17,800.0	8,959.7	18,880.6	9,772.3	74.1	74.5	-167.58	-8,640.6	-1,134.1	836.6	688.8	147.81	5.660
17,860.0	8,959.8	18,940.6	9,772.3	74.5	74.9	-167.58	-8,700.6	-1,134.6	836.6	687.9	148.71	5.626
17,900.0	8,959.8	18,980.6	9,772.3	74.8	75.2	-167.58	-8,740.6	-1,134.9	836.6	687.3	149.31	5.603
17,955.0	8,959.9	19,035.6	9,772.4	75.2	75.6	-167.58	-8,795.6	-1,135.4	836.6	686.4	150.14	5.572
18,000.0	8,959.9	19,080.6	9,772.4	75.5	75.9	-167.58	-8,840.6	-1,135.8	836.6	685.8	150.82	5.547
18,050.0	8,959.9	19,130.6	9,772.4	75.8	76.2	-167.58	-8,890.6	-1,136.2	836.6	685.0	151.57	5.519
18,100.0	8,960.0	19,180.6	9,772.5	76.2	76.6	-167.58	-8,940.6	-1,136.6	836.6	684.2	152.33	5.492
18,145.0	8,960.0	19,225.6	9,772.5	76.5	76.9	-167.58	-8,985.6	-1,137.0	836.6	683.6	153.01	5.468
18,200.0	8,960.1	19,280.6	9,772.6	76.9	77.3	-167.58	-9,040.5	-1,137.4	836.6	682.7	153.84	5.438
18,240.0	8,960.1	19,320.6	9,772.6	77.2	77.6	-167.58	-9,080.5	-1,137.7	836.6	682.1	154.44	5.417
18,300.0	8,960.1	19,380.6	9,772.6	77.6	78.0	-167.58	-9,140.5	-1,138.2	836.6	681.2	155.35	5.385
18,335.0	8,960.2	19,415.6	9,772.6	77.8	78.3	-167.58	-9,175.5	-1,138.5	836.6	680.7	155.87	5.367
18,400.0	8,960.2	19,480.6	9,772.7	78.3	78.7	-167.58	-9,240.5	-1,139.1	836.6	679.7	156.86	5.333
18,430.0	8,960.2	19,510.6	9,772.7	78.5	78.9	-167.58	-9,270.5	-1,139.3	836.6	679.2	157.31	5.318
18,500.0	8,960.3	19,580.6	9,772.8	79.0	79.4	-167.58	-9,340.5	-1,139.9	836.5	678.2	158.37	5.282
18,525.0	8,960.3	19,605.6	9,772.8	79.2	79.6	-167.58	-9,365.5	-1,140.1	836.5	677.8	158.75	5.270
18,600.0	8,960.4	19,680.6	9,772.8	79.7	80.2	-167.58	-9,440.5	-1,140.7	836.5	676.7	159.88	5.232
18,620.0	8,960.4	19,700.6	9,772.9	79.8	80.3	-167.58	-9,460.5	-1,140.9	836.5	676.4	160.18	5.222
18,700.0	8,960.5	19,780.6	9,772.9	80.4	80.9	-167.58	-9,540.5	-1,141.6	836.5	675.1	161.39	5.183
18,715.0	8,960.5	19,795.6	9,772.9	80.5	81.0	-167.58	-9,555.5	-1,141.7	836.5	674.9	161.62	5.176
18,800.0	8,960.5	19,880.6	9,773.0	81.1	81.6	-167.58	-9,640.5	-1,142.4	836.5	673.6	162.91	5.135
18,810.0	8,960.5	19,890.6	9,773.0	81.2	81.7	-167.58	-9,650.5	-1,142.5	836.5	673.5	163.06	5.130
18,900.0	8,960.6	19,980.6	9,773.1	81.8	82.3	-167.58	-9,740.5	-1,143.2	836.5	672.1	164.43	5.088
18,905.0	8,960.6	19,985.6	9,773.1	81.8	82.3	-167.58	-9,745.5	-1,143.2	836.5	672.0	164.50	5.085
19,000.0	8,960.7	20,080.6	9,773.1	82.5	83.0	-167.58	-9,840.5	-1,144.0	836.5	670.6	165.94	5.041
19,095.0	8,960.8	20,175.6	9,773.2	83.2	83.7	-167.58	-9,935.5	-1,144.8	836.5	669.1	167.38	4.997
19,100.0	8,960.8	20,180.6	9,773.2	83.2	83.8	-167.58	-9,940.5	-1,144.9	836.5	669.0	167.46	4.995
19,190.0	8,960.9	20,270.6	9,773.3	83.9	84.4	-167.58	-10,030.5	-1,145.6	836.5	667.7	168.83	4.955
19,200.0	8,960.9	20,280.6	9,773.3	83.9	84.5	-167.58	-10,040.5	-1,145.7	836.5	667.5	168.98	4.950
19,285.0	8,960.9	20,365.6	9,773.3	84.6	85.1	-167.58	-10,125.5	-1,146.4	836.5	666.2	170.27	4.913
19,300.0	8,960.9	20,380.6	9,773.3	84.7	85.2	-167.58	-10,140.5	-1,146.5	836.5	666.0	170.50	4.906
19,380.0	8,961.0	20,460.6	9,773.4	85.2	85.8	-167.58	-10,220.5	-1,147.2	836.5	664.8	171.71	4.871
19,400.0	8,961.0	20,480.6	9,773.4	85.4	85.9	-167.58	-10,240.5	-1,147.3	836.5	664.5	172.02	4.863
19,475.0	8,961.1	20,555.6	9,773.5	85.9	86.5	-167.58	-10,315.5	-1,148.0	836.5	663.3	173.16	4.831
19,500.0	8,961.1	20,580.6	9,773.5	86.1	86.6	-167.58	-10,340.5	-1,148.2	836.5	662.9	173.54	4.820
19,570.0	8,961.2	20,650.6	9,773.5	86.6	87.1	-167.58	-10,410.5	-1,148.7	836.5	661.9	174.60	4.791
19,600.0	8,961.2	20,680.6	9,773.6	86.8	87.4	-167.58	-10,440.5	-1,149.0	836.5	661.4	175.06	4.778
19,665.0	8,961.2	20,745.6	9,773.6	87.3	87.8	-167.58	-10,505.5	-1,149.5	836.5	660.4	176.05	4.751
19,700.0	8,961.3	20,780.6	9,773.6	87.5	88.1	-167.58	-10,540.5	-1,149.8	836.5	659.9	176.58	4.737

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,760.0	8,961.3	20,840.6	9,773.7	87.9	88.5	-167.58	-10,600.5	-1,150.3	836.4	658.9	177.50	4.712		
19,800.0	8,961.3	20,880.6	9,773.7	88.2	88.8	-167.58	-10,640.5	-1,150.6	836.4	658.3	178.11	4.696		
19,855.0	8,961.4	20,935.6	9,773.7	88.6	89.2	-167.58	-10,695.5	-1,151.1	836.4	657.5	178.95	4.674		
19,900.0	8,961.4	20,980.6	9,773.8	88.9	89.5	-167.58	-10,740.5	-1,151.5	836.4	656.8	179.63	4.656		
19,950.0	8,961.5	21,030.6	9,773.8	89.3	89.9	-167.58	-10,790.5	-1,151.9	836.4	656.0	180.39	4.637		
20,000.0	8,961.5	21,080.6	9,773.9	89.7	90.3	-167.58	-10,840.5	-1,152.3	836.4	655.3	181.16	4.617		
20,045.0	8,961.5	21,125.6	9,773.9	90.0	90.6	-167.58	-10,885.5	-1,152.7	836.4	654.6	181.84	4.600		
20,100.0	8,961.6	21,180.6	9,773.9	90.4	91.0	-167.58	-10,940.5	-1,153.1	836.4	653.7	182.68	4.579		
20,140.0	8,961.6	21,220.6	9,774.0	90.7	91.3	-167.58	-10,980.5	-1,153.5	836.4	653.1	183.29	4.563		
20,200.0	8,961.7	21,280.6	9,774.0	91.1	91.7	-167.58	-11,040.5	-1,154.0	836.4	652.2	184.21	4.541		
20,235.0	8,961.7	21,315.6	9,774.0	91.4	92.0	-167.58	-11,075.5	-1,154.2	836.4	651.7	184.74	4.527		
20,300.0	8,961.7	21,380.6	9,774.1	91.8	92.5	-167.58	-11,140.5	-1,154.8	836.4	650.7	185.74	4.503		
20,330.0	8,961.8	21,410.6	9,774.1	92.0	92.7	-167.58	-11,170.5	-1,155.0	836.4	650.2	186.19	4.492		
20,400.0	8,961.8	21,480.6	9,774.1	92.5	93.2	-167.58	-11,240.5	-1,155.6	836.4	649.1	187.26	4.466		
20,425.0	8,961.8	21,505.6	9,774.2	92.7	93.4	-167.58	-11,265.5	-1,155.8	836.4	648.7	187.65	4.457		
20,500.0	8,961.9	21,580.6	9,774.2	93.3	93.9	-167.58	-11,340.5	-1,156.4	836.4	647.6	188.79	4.430		
20,520.0	8,961.9	21,600.6	9,774.2	93.4	94.1	-167.58	-11,360.5	-1,156.6	836.4	647.3	189.10	4.423		
20,600.0	8,962.0	21,680.6	9,774.3	94.0	94.6	-167.58	-11,440.5	-1,157.3	836.4	646.1	190.32	4.395		
20,615.0	8,962.0	21,695.6	9,774.3	94.1	94.8	-167.58	-11,455.5	-1,157.4	836.4	645.8	190.55	4.389		
20,700.0	8,962.1	21,780.6	9,774.4	94.7	95.4	-167.58	-11,540.5	-1,158.1	836.4	644.5	191.85	4.359		
20,710.0	8,962.1	21,790.6	9,774.4	94.8	95.4	-167.58	-11,550.5	-1,158.2	836.4	644.4	192.00	4.356		
20,800.0	8,962.1	21,880.6	9,774.4	95.4	96.1	-167.58	-11,640.5	-1,158.9	836.4	643.0	193.38	4.325		
20,805.0	8,962.2	21,885.6	9,774.4	95.5	96.1	-167.58	-11,645.5	-1,159.0	836.4	642.9	193.46	4.323		
20,900.0	8,962.2	21,980.6	9,774.5	96.2	96.8	-167.58	-11,740.5	-1,159.7	836.4	641.4	194.91	4.291		
20,995.0	8,962.3	22,075.6	9,774.6	96.9	97.5	-167.58	-11,835.5	-1,160.5	836.4	640.0	196.37	4.259		
21,000.0	8,962.3	22,080.6	9,774.6	96.9	97.6	-167.58	-11,840.5	-1,160.6	836.4	639.9	196.44	4.257		
21,090.0	8,962.4	22,170.6	9,774.6	97.5	98.2	-167.58	-11,930.4	-1,161.3	836.3	638.5	197.82	4.228		
21,100.0	8,962.4	22,180.6	9,774.6	97.6	98.3	-167.58	-11,940.4	-1,161.4	836.3	638.4	197.98	4.224		
21,185.0	8,962.5	22,265.6	9,774.7	98.2	98.9	-167.58	-12,025.4	-1,162.1	836.3	637.1	199.28	4.197		
21,200.0	8,962.5	22,280.6	9,774.7	98.3	99.0	-167.58	-12,040.4	-1,162.2	836.3	636.8	199.51	4.192		
21,280.0	8,962.5	22,360.6	9,774.8	98.9	99.6	-167.58	-12,120.4	-1,162.9	836.3	635.6	200.73	4.166		
21,300.0	8,962.5	22,380.6	9,774.8	99.1	99.8	-167.58	-12,140.4	-1,163.1	836.3	635.3	201.04	4.160		
21,375.0	8,962.6	22,455.6	9,774.8	99.6	100.3	-167.58	-12,215.4	-1,163.7	836.3	634.1	202.19	4.136		
21,400.0	8,962.6	22,480.6	9,774.9	99.8	100.5	-167.58	-12,240.4	-1,163.9	836.3	633.7	202.57	4.128		
21,470.0	8,962.7	22,550.6	9,774.9	100.3	101.0	-167.58	-12,310.4	-1,164.5	836.3	632.7	203.65	4.107		
21,500.0	8,962.7	22,580.6	9,774.9	100.5	101.2	-167.58	-12,340.4	-1,164.7	836.3	632.2	204.11	4.097		
21,565.0	8,962.8	22,645.6	9,775.0	101.0	101.7	-167.58	-12,405.4	-1,165.2	836.3	631.2	205.11	4.077		
21,600.0	8,962.8	22,680.6	9,775.0	101.3	102.0	-167.58	-12,440.4	-1,165.5	836.3	630.7	205.64	4.067		
21,660.0	8,962.8	22,740.6	9,775.1	101.7	102.4	-167.58	-12,500.4	-1,166.0	836.3	629.7	206.56	4.049		
21,700.0	8,962.9	22,780.6	9,775.1	102.0	102.7	-167.58	-12,540.4	-1,166.4	836.3	629.1	207.18	4.037		
21,755.0	8,962.9	22,835.6	9,775.1	102.4	103.1	-167.58	-12,595.4	-1,166.8	836.3	628.3	208.02	4.020		
21,800.0	8,963.0	22,880.6	9,775.2	102.7	103.4	-167.58	-12,640.4	-1,167.2	836.3	627.6	208.71	4.007		
21,850.0	8,963.0	22,930.6	9,775.2	103.1	103.8	-167.58	-12,690.4	-1,167.6	836.3	626.8	209.48	3.992		
21,900.0	8,963.0	22,980.6	9,775.2	103.4	104.2	-167.58	-12,740.4	-1,168.0	836.3	626.0	210.25	3.978		
21,945.0	8,963.1	23,025.6	9,775.3	103.8	104.5	-167.58	-12,785.4	-1,168.4	836.3	625.3	210.94	3.965		
22,000.0	8,963.1	23,080.6	9,775.3	104.2	104.9	-167.58	-12,840.4	-1,168.8	836.3	624.5	211.79	3.949		
22,040.0	8,963.1	23,120.6	9,775.3	104.5	105.2	-167.57	-12,880.4	-1,169.2	836.3	623.9	212.40	3.937		
22,100.0	8,963.2	23,180.6	9,775.4	104.9	105.7	-167.57	-12,940.4	-1,169.7	836.3	622.9	213.32	3.920		
22,135.0	8,963.2	23,215.6	9,775.4	105.2	105.9	-167.57	-12,975.4	-1,170.0	836.3	622.4	213.86	3.910		
22,200.0	8,963.3	23,280.6	9,775.4	105.6	106.4	-167.57	-13,040.4	-1,170.5	836.3	621.4	214.86	3.892		
22,230.0	8,963.3	23,310.6	9,775.5	105.9	106.6	-167.57	-13,070.4	-1,170.7	836.3	620.9	215.32	3.884		

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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
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	
22,300.0	8,963.4	23,380.6	9,775.5	106.4	107.1	-167.57	-13,140.4	-1,171.3	836.3	619.9	216.40	3.864		
22,325.0	8,963.4	23,405.6	9,775.5	106.6	107.3	-167.57	-13,165.4	-1,171.5	836.2	619.5	216.78	3.858		
22,400.0	8,963.4	23,480.6	9,775.6	107.1	107.9	-167.57	-13,240.4	-1,172.1	836.2	618.3	217.94	3.837		
22,420.0	8,963.5	23,500.6	9,775.6	107.2	108.0	-167.57	-13,260.4	-1,172.3	836.2	618.0	218.24	3.832		
22,500.0	8,963.5	23,580.6	9,775.7	107.8	108.6	-167.57	-13,340.4	-1,173.0	836.2	616.8	219.47	3.810		
22,515.0	8,963.5	23,595.6	9,775.7	107.9	108.7	-167.57	-13,355.4	-1,173.1	836.2	616.5	219.71	3.806		
22,600.0	8,963.6	23,680.6	9,775.7	108.6	109.3	-167.57	-13,440.4	-1,173.8	836.2	615.2	221.01	3.784		
22,610.0	8,963.6	23,690.6	9,775.7	108.6	109.4	-167.57	-13,450.4	-1,173.9	836.2	615.1	221.17	3.781		
22,700.0	8,963.7	23,780.6	9,775.8	109.3	110.1	-167.57	-13,540.4	-1,174.6	836.2	613.7	222.55	3.757		
22,705.0	8,963.7	23,785.6	9,775.8	109.3	110.1	-167.57	-13,545.4	-1,174.7	836.2	613.6	222.63	3.756		
22,800.0	8,963.8	23,880.6	9,775.9	110.0	110.8	-167.57	-13,640.4	-1,175.5	836.2	612.1	224.09	3.732		
22,895.0	8,963.8	23,975.6	9,775.9	110.7	111.5	-167.57	-13,735.4	-1,176.2	836.2	610.6	225.56	3.707		
22,900.0	8,963.8	23,980.6	9,776.0	110.8	111.6	-167.57	-13,740.4	-1,176.3	836.2	610.6	225.63	3.706		
22,990.0	8,963.9	24,070.6	9,776.0	111.4	112.2	-167.57	-13,830.4	-1,177.0	836.2	609.2	227.02	3.683		
23,000.0	8,963.9	24,080.6	9,776.0	111.5	112.3	-167.57	-13,840.4	-1,177.1	836.2	609.0	227.17	3.681		
23,085.0	8,964.0	24,165.6	9,776.1	112.1	112.9	-167.57	-13,925.4	-1,177.8	836.2	607.7	228.48	3.660		
23,100.0	8,964.0	24,180.6	9,776.1	112.2	113.0	-167.57	-13,940.4	-1,177.9	836.2	607.5	228.71	3.656		
23,180.0	8,964.1	24,260.6	9,776.2	112.8	113.6	-167.57	-14,020.4	-1,178.6	836.2	606.2	229.95	3.636		
23,200.0	8,964.1	24,280.6	9,776.2	113.0	113.8	-167.57	-14,040.4	-1,178.8	836.2	605.9	230.26	3.632		
23,275.0	8,964.1	24,355.6	9,776.2	113.5	114.3	-167.57	-14,115.4	-1,179.4	836.2	604.8	231.41	3.613		
23,300.0	8,964.2	24,380.6	9,776.2	113.7	114.5	-167.57	-14,140.4	-1,179.6	836.2	604.4	231.80	3.607		
23,370.0	8,964.2	24,450.6	9,776.3	114.2	115.1	-167.57	-14,210.4	-1,180.2	836.2	603.3	232.88	3.591		
23,400.0	8,964.2	24,480.6	9,776.3	114.4	115.3	-167.57	-14,240.4	-1,180.4	836.2	602.8	233.34	3.583		
23,465.0	8,964.3	24,545.6	9,776.4	114.9	115.8	-167.57	-14,305.4	-1,181.0	836.2	601.8	234.34	3.568		
23,500.0	8,964.3	24,580.6	9,776.4	115.2	116.0	-167.57	-14,340.4	-1,181.2	836.2	601.3	234.88	3.560		
23,560.0	8,964.4	24,640.6	9,776.4	115.6	116.5	-167.57	-14,400.4	-1,181.7	836.2	600.3	235.81	3.546		
23,600.0	8,964.4	24,680.6	9,776.5	115.9	116.8	-167.57	-14,440.4	-1,182.1	836.1	599.7	236.42	3.537		
23,655.0	8,964.4	24,735.6	9,776.5	116.3	117.2	-167.57	-14,495.4	-1,182.5	836.1	598.9	237.27	3.524		
23,700.0	8,964.5	24,780.6	9,776.5	116.7	117.5	-167.57	-14,540.4	-1,182.9	836.1	598.2	237.97	3.514		
23,750.0	8,964.5	24,830.6	9,776.6	117.0	117.9	-167.57	-14,590.4	-1,183.3	836.1	597.4	238.74	3.502		
23,800.0	8,964.6	24,880.6	9,776.6	117.4	118.2	-167.57	-14,640.4	-1,183.7	836.1	596.6	239.51	3.491		
23,845.0	8,964.6	24,925.6	9,776.6	117.7	118.6	-167.57	-14,685.4	-1,184.1	836.1	595.9	240.20	3.481		
23,900.0	8,964.6	24,980.6	9,776.7	118.1	119.0	-167.57	-14,740.4	-1,184.6	836.1	595.1	241.05	3.469		
23,940.0	8,964.7	25,020.6	9,776.7	118.4	119.3	-167.57	-14,780.3	-1,184.9	836.1	594.5	241.67	3.460		
24,000.0	8,964.7	25,080.6	9,776.7	118.9	119.7	-167.57	-14,840.3	-1,185.4	836.1	593.5	242.60	3.447		
24,035.0	8,964.8	25,115.6	9,776.8	119.1	120.0	-167.57	-14,875.3	-1,185.7	836.1	593.0	243.14	3.439		
24,100.0	8,964.8	25,180.6	9,776.8	119.6	120.5	-167.57	-14,940.3	-1,186.2	836.1	592.0	244.14	3.425		
24,130.0	8,964.8	25,210.6	9,776.8	119.8	120.7	-167.57	-14,970.3	-1,186.5	836.1	591.5	244.60	3.418		
24,200.0	8,964.9	25,280.6	9,776.9	120.4	121.2	-167.57	-15,040.3	-1,187.0	836.1	590.4	245.69	3.403		
24,214.6	8,964.9	25,295.1	9,776.9	120.5	121.3	-167.57	-15,054.9	-1,187.2	836.1	590.2	245.91	3.400		
24,225.0	8,964.9	25,305.6	9,776.9	120.5	121.4	-167.57	-15,065.3	-1,187.2	836.1	590.0	246.07	3.398		
24,300.0	8,965.0	25,380.6	9,777.0	121.1	122.0	-167.57	-15,140.3	-1,187.9	836.1	588.9	247.23	3.382		
24,320.0	8,965.0	25,400.6	9,777.0	121.2	122.1	-167.57	-15,160.3	-1,188.0	836.1	588.6	247.54	3.378		
24,344.7	8,965.0	25,425.3	9,777.0	121.4	122.3	-167.57	-15,185.0	-1,188.2	836.1	588.2	247.92	3.372		
24,345.4	8,965.0	25,425.9	9,777.0	121.4	122.3	-167.57	-15,185.7	-1,188.2	836.1	588.2	247.93	3.372 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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Offset	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor	
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
4,845.0	4,759.5	4,985.6	4,897.8	17.8	18.5	2.98	545.7	-1,960.1	1,315.4	1,284.3	31.17	42.196	
4,900.0	4,812.8	5,026.9	4,938.6	18.0	18.7	3.25	549.9	-1,955.3	1,297.7	1,266.1	31.53	41.158	
4,940.0	4,851.7	5,057.2	4,968.6	18.2	18.8	3.45	552.8	-1,952.0	1,285.0	1,253.3	31.79	40.428	
5,000.0	4,909.9	5,100.0	5,011.1	18.5	19.0	3.70	556.5	-1,947.7	1,266.5	1,234.4	32.17	39.367	
5,035.0	4,943.8	5,129.8	5,040.6	18.7	19.1	3.87	558.8	-1,945.0	1,256.0	1,223.6	32.39	38.774	
5,100.0	5,006.9	5,180.0	5,090.6	19.0	19.3	4.12	562.2	-1,941.0	1,236.8	1,204.0	32.80	37.705	
5,130.0	5,036.0	5,200.0	5,110.5	19.1	19.4	4.22	563.4	-1,939.6	1,228.2	1,195.2	32.99	37.226	
5,200.0	5,103.9	5,258.2	5,168.5	19.5	19.6	4.46	566.4	-1,936.2	1,208.5	1,175.1	33.42	36.157	
5,225.0	5,128.2	5,277.9	5,188.1	19.6	19.7	4.53	567.3	-1,935.2	1,201.7	1,168.1	33.58	35.785	
5,300.0	5,201.0	5,337.3	5,247.5	19.9	19.9	4.72	569.3	-1,932.9	1,181.7	1,147.6	34.04	34.715	
5,320.0	5,220.4	5,353.2	5,263.4	20.0	20.0	4.77	569.7	-1,932.4	1,176.4	1,142.3	34.16	34.439	
5,400.0	5,298.0	5,417.2	5,327.3	20.4	20.1	4.90	570.7	-1,931.2	1,156.2	1,121.5	34.63	33.383	
5,415.0	5,312.5	5,429.2	5,339.4	20.5	20.2	4.92	570.8	-1,931.1	1,152.5	1,117.8	34.71	33.199	
5,500.0	5,395.0	5,506.3	5,416.4	20.9	20.2	5.01	570.9	-1,931.0	1,131.9	1,096.8	35.15	32.205	
5,510.0	5,404.7	5,516.0	5,426.1	20.9	20.2	5.02	570.9	-1,931.0	1,129.5	1,094.3	35.20	32.089	
5,600.0	5,492.0	5,603.3	5,513.4	21.4	20.3	5.12	570.9	-1,931.0	1,107.8	1,072.1	35.66	31.062	
5,605.0	5,496.9	5,608.1	5,518.3	21.4	20.3	5.12	570.9	-1,931.0	1,106.6	1,070.9	35.69	31.005	
5,700.0	5,589.1	5,700.3	5,610.5	21.8	20.3	5.23	570.9	-1,931.0	1,083.7	1,047.5	36.18	29.951	
5,795.0	5,681.3	5,792.5	5,702.7	22.3	20.3	5.35	570.9	-1,931.0	1,060.8	1,024.1	36.67	28.925	
5,800.0	5,686.1	5,797.4	5,707.5	22.3	20.3	5.35	570.9	-1,931.0	1,059.6	1,022.9	36.70	28.872	
5,890.0	5,773.4	5,884.7	5,794.8	22.7	20.4	5.46	570.9	-1,931.0	1,037.9	1,000.8	37.17	27.927	
5,900.0	5,783.1	5,894.4	5,804.5	22.8	20.4	5.48	570.9	-1,931.0	1,035.5	998.3	37.22	27.823	
5,985.0	5,865.6	5,976.9	5,887.0	23.2	20.4	5.59	570.9	-1,931.0	1,015.0	977.4	37.66	26.954	
6,000.0	5,880.2	5,991.4	5,901.6	23.3	20.4	5.61	570.9	-1,931.0	1,011.4	973.7	37.74	26.803	
6,080.0	5,957.8	6,069.0	5,979.2	23.7	20.5	5.72	570.9	-1,931.0	992.2	954.0	38.15	26.007	
6,100.0	5,977.2	6,088.4	5,998.6	23.8	20.5	5.74	570.9	-1,931.0	987.3	949.1	38.25	25.811	
6,175.0	6,050.0	6,161.2	6,071.4	24.1	20.5	5.85	570.9	-1,931.0	969.3	930.6	38.64	25.084	
6,200.0	6,074.2	6,185.5	6,095.6	24.2	20.5	5.89	570.9	-1,931.0	963.3	924.5	38.77	24.846	
6,270.0	6,142.1	6,253.4	6,163.5	24.6	20.5	5.99	570.9	-1,931.0	946.4	907.3	39.13	24.185	
6,300.0	6,171.2	6,282.5	6,192.6	24.7	20.6	6.04	570.9	-1,931.0	939.2	899.9	39.29	23.906	
6,365.0	6,234.3	6,345.6	6,255.7	25.0	20.6	6.14	570.9	-1,931.0	923.5	883.9	39.62	23.309	
6,400.0	6,268.3	6,379.5	6,289.7	25.2	20.6	6.20	570.9	-1,931.0	915.1	875.3	39.80	22.992	
6,460.0	6,326.5	6,437.7	6,347.9	25.5	20.6	6.30	570.9	-1,931.0	900.7	860.6	40.11	22.454	
6,500.0	6,365.3	6,476.6	6,386.7	25.7	20.7	6.37	570.9	-1,931.0	891.1	850.8	40.32	22.101	
6,555.0	6,418.7	6,529.9	6,440.1	25.9	20.7	6.46	570.9	-1,931.0	877.8	837.2	40.60	21.621	
6,600.0	6,462.3	6,573.6	6,483.7	26.2	20.7	6.54	570.9	-1,931.0	867.0	826.2	40.83	21.234	
6,650.0	6,510.8	6,622.1	6,532.2	26.4	20.7	6.64	570.9	-1,931.0	855.0	813.9	41.09	20.808	
6,700.0	6,559.4	6,670.6	6,580.8	26.6	20.7	6.73	570.9	-1,931.0	843.0	801.6	41.35	20.389	
6,745.0	6,603.0	6,714.3	6,624.4	26.9	20.8	6.82	570.9	-1,931.0	832.2	790.6	41.57	20.017	
6,772.7	6,629.9	6,741.1	6,651.3	27.0	20.8	6.87	570.9	-1,931.0	825.5	783.8	41.71	19.791	
6,800.0	6,656.4	6,767.7	6,677.8	27.1	20.8	6.91	570.9	-1,931.0	819.1	777.2	41.85	19.574	
6,840.0	6,695.4	6,806.6	6,716.8	27.3	20.8	6.97	570.9	-1,931.0	810.1	768.0	42.05	19.264	
6,900.0	6,754.1	6,865.3	6,775.5	27.6	20.8	7.05	570.9	-1,931.0	797.7	755.3	42.37	18.828	
6,935.0	6,788.4	6,899.7	6,809.8	27.8	20.9	7.09	570.9	-1,931.0	791.0	748.4	42.54	18.593	
7,000.0	6,852.4	6,963.7	6,873.8	28.1	20.9	7.16	570.9	-1,931.0	779.6	736.8	42.87	18.186	
7,030.0	6,882.0	6,993.3	6,903.4	28.2	20.9	7.19	570.9	-1,931.0	774.9	731.9	43.02	18.014	
7,100.0	6,951.3	7,062.6	6,972.7	28.5	20.9	7.26	570.9	-1,931.0	765.1	721.7	43.36	17.644	
7,125.0	6,976.1	7,087.4	6,997.5	28.6	20.9	7.28	570.9	-1,931.0	761.9	718.5	43.48	17.525	
7,200.0	7,050.7	7,161.9	7,072.1	29.0	21.0	7.34	570.9	-1,931.0	753.9	710.1	43.83	17.200	
7,220.0	7,070.6	7,181.8	7,092.0	29.0	21.0	7.36	570.9	-1,931.0	752.1	708.2	43.92	17.125	
7,300.0	7,150.4	7,261.6	7,171.8	29.3	21.0	7.40	570.9	-1,931.0	746.2	701.9	44.27	16.855	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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	
7,315.0	7,165.3	7,276.6	7,186.7	29.4	21.0	7.40	570.9	-1,931.0	745.3	701.0	44.33	16.814		
7,400.0	7,250.3	7,361.5	7,271.7	29.7	21.1	7.43	570.9	-1,931.0	742.0	697.3	44.67	16.611		
7,410.0	7,260.3	7,371.5	7,281.7	29.7	21.1	7.43	570.9	-1,931.0	741.7	697.0	44.69	16.598		
7,472.7	7,323.0	7,434.3	7,344.4	29.8	21.1	-68.82	570.9	-1,931.0	741.0	696.2	44.82	16.533		
7,500.0	7,350.3	7,461.5	7,371.7	29.8	21.1	-68.82	570.9	-1,931.0	741.0	696.2	44.84	16.526		
7,505.0	7,355.3	7,466.5	7,376.7	29.8	21.1	-68.82	570.9	-1,931.0	741.0	696.2	44.85	16.524		
7,600.0	7,450.3	7,561.5	7,471.7	29.8	21.2	-68.82	570.9	-1,931.0	741.0	696.1	44.94	16.491		
7,695.0	7,545.3	7,656.5	7,566.7	29.8	21.2	-68.82	570.9	-1,931.0	741.0	696.0	45.03	16.458		
7,700.0	7,550.3	7,661.5	7,571.7	29.8	21.2	-68.82	570.9	-1,931.0	741.0	696.0	45.03	16.457		
7,790.0	7,640.3	7,751.5	7,661.7	29.9	21.3	-68.82	570.9	-1,931.0	741.0	695.9	45.11	16.426		
7,800.0	7,650.3	7,761.5	7,671.7	29.9	21.3	-68.82	570.9	-1,931.0	741.0	695.9	45.12	16.422		
7,885.0	7,735.3	7,846.5	7,756.7	29.9	21.3	-68.82	570.9	-1,931.0	741.0	695.8	45.20	16.393		
7,900.0	7,750.3	7,861.5	7,771.7	29.9	21.3	-68.82	570.9	-1,931.0	741.0	695.8	45.22	16.388		
7,980.0	7,830.3	7,941.5	7,851.7	29.9	21.4	-68.82	570.9	-1,931.0	741.0	695.7	45.30	16.360		
8,000.0	7,850.3	7,961.5	7,871.7	29.9	21.4	-68.82	570.9	-1,931.0	741.0	695.7	45.31	16.353		
8,075.0	7,925.3	8,036.5	7,946.7	30.0	21.4	-68.82	570.9	-1,931.0	741.0	695.7	45.39	16.328		
8,100.0	7,950.3	8,061.5	7,971.7	30.0	21.4	-68.82	570.9	-1,931.0	741.0	695.6	45.41	16.319		
8,170.0	8,020.3	8,131.5	8,041.7	30.0	21.5	-68.82	570.9	-1,931.0	741.0	695.6	45.48	16.295		
8,200.0	8,050.3	8,161.5	8,071.7	30.0	21.5	-68.82	570.9	-1,931.0	741.0	695.5	45.51	16.285		
8,265.0	8,115.3	8,226.5	8,136.7	30.0	21.5	-68.82	570.9	-1,931.0	741.0	695.5	45.57	16.262		
8,300.0	8,150.3	8,261.5	8,171.7	30.0	21.5	-68.82	570.9	-1,931.0	741.0	695.4	45.60	16.250		
8,360.0	8,210.3	8,321.5	8,231.7	30.0	21.5	-68.82	570.9	-1,931.0	741.0	695.4	45.66	16.230		
8,400.0	8,250.3	8,361.5	8,271.7	30.1	21.6	-68.82	570.9	-1,931.0	741.0	695.3	45.70	16.216		
8,455.0	8,305.3	8,416.5	8,326.7	30.1	21.6	-68.82	570.9	-1,931.0	741.0	695.3	45.75	16.197		
8,500.0	8,350.3	8,461.5	8,371.7	30.1	21.6	-68.82	570.9	-1,931.0	741.0	695.2	45.79	16.182		
8,529.8	8,380.0	8,491.3	8,401.4	30.1	21.6	-68.82	570.9	-1,931.0	741.0	695.2	45.82	16.174 CC, ES		
8,550.0	8,400.3	8,511.5	8,421.7	30.1	21.6	110.72	570.9	-1,931.0	741.2	695.3	45.83	16.172		
8,600.0	8,450.1	8,561.3	8,471.5	30.1	21.7	110.87	570.9	-1,931.0	742.6	696.7	45.83	16.203		
8,645.0	8,494.5	8,605.7	8,515.9	30.1	21.7	111.14	570.9	-1,931.0	745.2	699.4	45.79	16.275		
8,650.0	8,499.4	8,610.6	8,520.8	30.1	21.7	111.17	570.9	-1,931.0	745.6	699.8	45.78	16.286		
8,700.0	8,547.8	8,659.0	8,569.2	30.1	21.7	111.60	570.9	-1,931.0	750.3	704.6	45.68	16.423		
8,740.0	8,585.6	8,696.8	8,607.0	30.1	21.7	112.00	570.9	-1,931.0	755.4	709.8	45.57	16.574		
8,750.0	8,594.9	8,706.1	8,616.3	30.1	21.7	112.11	570.9	-1,931.0	756.8	711.3	45.54	16.618		
8,800.0	8,640.4	8,751.6	8,661.8	30.1	21.8	112.64	570.9	-1,931.0	765.4	720.0	45.36	16.875		
8,835.0	8,671.0	8,782.3	8,692.4	30.1	21.8	112.99	570.9	-1,931.0	772.7	727.5	45.20	17.093		
8,850.0	8,683.8	8,795.1	8,705.2	30.1	21.8	113.12	570.9	-1,931.0	776.2	731.0	45.13	17.197		
8,900.0	8,725.0	8,836.3	8,746.4	30.2	21.8	113.50	570.9	-1,931.0	789.3	744.4	44.87	17.589		
8,930.0	8,748.5	8,859.7	8,769.9	30.2	21.8	113.64	570.9	-1,931.0	798.4	753.7	44.71	17.859		
8,950.0	8,763.6	8,874.8	8,785.0	30.2	21.8	113.68	570.9	-1,931.0	805.0	760.4	44.59	18.054		
9,000.0	8,799.2	8,910.5	8,820.6	30.2	21.8	113.60	570.9	-1,931.0	823.4	779.1	44.29	18.592		
9,025.0	8,815.9	8,927.1	8,837.3	30.2	21.9	113.44	570.9	-1,931.0	833.6	789.5	44.13	18.890		
9,050.0	8,831.7	8,942.9	8,853.1	30.2	21.9	113.18	570.9	-1,931.0	844.5	800.5	43.97	19.206		
9,100.0	8,860.7	8,971.9	8,882.1	30.2	21.9	112.33	570.9	-1,931.0	868.4	824.7	43.65	19.893		
9,120.0	8,871.3	8,982.5	8,892.7	30.2	21.9	111.85	570.9	-1,931.0	878.7	835.2	43.53	20.187		
9,150.0	8,886.0	8,997.3	8,907.4	30.3	21.9	110.96	570.9	-1,931.0	895.0	851.7	43.34	20.650		
9,200.0	8,907.5	9,018.8	8,928.9	30.3	21.9	109.00	570.9	-1,931.0	924.2	881.2	43.04	21.473		
9,215.0	8,913.2	9,024.5	8,934.6	30.3	21.9	108.27	570.9	-1,931.0	933.4	890.5	42.95	21.731		
9,250.0	8,925.0	9,036.3	8,946.4	30.3	21.9	106.33	570.9	-1,931.0	955.8	913.1	42.76	22.355		
9,300.0	8,938.4	9,049.6	8,959.8	30.4	21.9	102.89	570.9	-1,931.0	989.6	947.1	42.49	23.291		
9,310.0	8,940.5	9,051.8	8,961.9	30.4	21.9	102.10	570.9	-1,931.0	996.6	954.2	42.44	23.484		
9,350.0	8,947.5	9,058.7	8,968.9	30.4	21.9	98.60	570.9	-1,931.0	1,025.3	983.0	42.24	24.272		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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:		Distance		Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
9,400.0	8,952.2	10,423.3	9,775.1	30.5	23.0	139.09	-233.4	-1,938.1	1,060.0	1,019.0	41.00	25.852		
9,405.0	8,952.5	10,428.3	9,775.1	30.5	23.0	139.09	-238.4	-1,938.2	1,059.8	1,018.8	41.02	25.835		
9,429.2	8,953.0	10,452.4	9,775.1	30.5	23.0	139.10	-262.6	-1,938.4	1,059.4	1,018.3	41.11	25.768		
9,429.3	8,953.0	10,452.6	9,775.1	30.5	23.0	139.10	-262.7	-1,938.4	1,059.4	1,018.3	41.11	25.768		
9,500.0	8,953.1	10,523.3	9,775.2	30.6	23.1	139.10	-333.4	-1,939.0	1,059.4	1,018.1	41.38	25.603		
9,595.0	8,953.1	10,618.3	9,775.2	30.7	23.2	139.09	-428.4	-1,939.9	1,059.4	1,017.7	41.79	25.353		
9,600.0	8,953.1	10,623.3	9,775.2	30.7	23.2	139.09	-433.4	-1,939.9	1,059.4	1,017.6	41.81	25.340		
9,690.0	8,953.2	10,713.3	9,775.3	30.9	23.4	139.09	-523.4	-1,940.7	1,059.5	1,017.2	42.24	25.080		
9,700.0	8,953.2	10,723.3	9,775.3	30.9	23.4	139.09	-533.4	-1,940.8	1,059.5	1,017.2	42.29	25.051		
9,785.0	8,953.3	10,808.3	9,775.3	31.0	23.5	139.09	-618.4	-1,941.5	1,059.5	1,016.7	42.74	24.787		
9,800.0	8,953.3	10,823.3	9,775.3	31.1	23.6	139.09	-633.4	-1,941.7	1,059.5	1,016.7	42.83	24.739		
9,880.0	8,953.4	10,903.3	9,775.4	31.2	23.7	139.08	-713.4	-1,942.4	1,059.5	1,016.2	43.29	24.475		
9,900.0	8,953.4	10,923.3	9,775.4	31.2	23.8	139.08	-733.4	-1,942.6	1,059.5	1,016.1	43.41	24.407		
9,975.0	8,953.4	10,998.3	9,775.4	31.4	23.9	139.08	-808.4	-1,943.2	1,059.5	1,015.6	43.88	24.147		
10,000.0	8,953.5	11,023.3	9,775.4	31.5	24.0	139.08	-833.4	-1,943.4	1,059.5	1,015.5	44.04	24.058		
10,070.0	8,953.5	11,093.3	9,775.5	31.6	24.1	139.08	-903.4	-1,944.1	1,059.5	1,015.0	44.51	23.805		
10,100.0	8,953.5	11,123.3	9,775.5	31.7	24.2	139.08	-933.4	-1,944.3	1,059.5	1,014.8	44.71	23.695		
10,165.0	8,953.6	11,188.3	9,775.5	31.8	24.3	139.07	-998.4	-1,944.9	1,059.5	1,014.4	45.18	23.452		
10,200.0	8,953.6	11,223.3	9,775.5	31.9	24.4	139.07	-1,033.4	-1,945.2	1,059.6	1,014.1	45.43	23.321		
10,260.0	8,953.7	11,283.3	9,775.6	32.1	24.6	139.07	-1,093.4	-1,945.7	1,059.6	1,013.7	45.89	23.091		
10,300.0	8,953.7	11,323.3	9,775.6	32.2	24.7	139.07	-1,133.4	-1,946.1	1,059.6	1,013.4	46.19	22.938		
10,355.0	8,953.7	11,378.3	9,775.6	32.3	24.8	139.07	-1,188.3	-1,946.6	1,059.6	1,013.0	46.63	22.723		
10,400.0	8,953.8	11,423.3	9,775.6	32.4	25.0	139.06	-1,233.3	-1,947.0	1,059.6	1,012.6	46.99	22.549		
10,450.0	8,953.8	11,473.3	9,775.7	32.6	25.1	139.06	-1,283.3	-1,947.4	1,059.6	1,012.2	47.41	22.351		
10,500.0	8,953.9	11,523.3	9,775.7	32.7	25.3	139.06	-1,333.3	-1,947.9	1,059.6	1,011.8	47.83	22.155		
10,545.0	8,953.9	11,568.3	9,775.7	32.8	25.4	139.06	-1,378.3	-1,948.3	1,059.6	1,011.4	48.22	21.976		
10,600.0	8,953.9	11,623.3	9,775.8	33.0	25.6	139.06	-1,433.3	-1,948.8	1,059.6	1,010.9	48.70	21.759		
10,640.0	8,954.0	11,663.3	9,775.8	33.1	25.7	139.06	-1,473.3	-1,949.1	1,059.6	1,010.6	49.06	21.599		
10,700.0	8,954.0	11,723.3	9,775.8	33.3	25.9	139.05	-1,533.3	-1,949.6	1,059.6	1,010.0	49.60	21.362		
10,735.0	8,954.0	11,758.3	9,775.8	33.4	26.0	139.05	-1,568.3	-1,950.0	1,059.6	1,009.7	49.93	21.223		
10,800.0	8,954.1	11,823.3	9,775.9	33.6	26.3	139.05	-1,633.3	-1,950.5	1,059.7	1,009.1	50.54	20.967		
10,830.0	8,954.1	11,853.3	9,775.9	33.7	26.4	139.05	-1,663.3	-1,950.8	1,059.7	1,008.8	50.83	20.848		
10,900.0	8,954.2	11,923.3	9,775.9	34.0	26.6	139.05	-1,733.3	-1,951.4	1,059.7	1,008.2	51.51	20.574		
10,925.0	8,954.2	11,948.3	9,775.9	34.0	26.7	139.05	-1,758.3	-1,951.6	1,059.7	1,007.9	51.75	20.476		
11,000.0	8,954.3	12,023.3	9,776.0	34.3	27.0	139.04	-1,833.3	-1,952.3	1,059.7	1,007.2	52.50	20.185		
11,020.0	8,954.3	12,043.3	9,776.0	34.4	27.1	139.04	-1,853.3	-1,952.5	1,059.7	1,007.0	52.70	20.107		
11,100.0	8,954.3	12,123.3	9,776.0	34.7	27.5	139.04	-1,933.3	-1,953.2	1,059.7	1,006.2	53.52	19.800		
11,115.0	8,954.4	12,138.3	9,776.0	34.7	27.5	139.04	-1,948.3	-1,953.3	1,059.7	1,006.0	53.68	19.742		
11,200.0	8,954.4	12,223.3	9,776.1	35.0	27.9	139.04	-2,033.3	-1,954.1	1,059.7	1,005.2	54.57	19.421		
11,210.0	8,954.4	12,233.3	9,776.1	35.1	27.9	139.04	-2,043.3	-1,954.2	1,059.7	1,005.1	54.67	19.383		
11,300.0	8,954.5	12,323.3	9,776.1	35.4	28.3	139.03	-2,133.3	-1,955.0	1,059.7	1,004.1	55.64	19.048		
11,305.0	8,954.5	12,328.3	9,776.1	35.4	28.3	139.03	-2,138.3	-1,955.0	1,059.7	1,004.1	55.69	19.029		
11,400.0	8,954.6	12,423.3	9,776.2	35.8	28.8	139.03	-2,233.3	-1,955.8	1,059.8	1,003.0	56.73	18.681		
11,495.0	8,954.7	12,518.3	9,776.2	36.2	29.2	139.03	-2,328.3	-1,956.7	1,059.8	1,002.0	57.79	18.340		
11,500.0	8,954.7	12,523.3	9,776.2	36.2	29.3	139.03	-2,333.3	-1,956.7	1,059.8	1,001.9	57.84	18.322		
11,590.0	8,954.7	12,613.3	9,776.3	36.6	29.7	139.02	-2,423.3	-1,957.5	1,059.8	1,000.9	58.86	18.005		
11,600.0	8,954.7	12,623.3	9,776.3	36.6	29.8	139.02	-2,433.3	-1,957.6	1,059.8	1,000.8	58.97	17.970		
11,685.0	8,954.8	12,708.3	9,776.3	37.0	30.2	139.02	-2,518.3	-1,958.4	1,059.8	999.9	59.95	17.677		
11,700.0	8,954.8	12,723.3	9,776.3	37.1	30.3	139.02	-2,533.3	-1,958.5	1,059.8	999.7	60.13	17.626		
11,780.0	8,954.9	12,803.3	9,776.4	37.4	30.7	139.02	-2,613.3	-1,959.2	1,059.8	998.8	61.06	17.357		
11,800.0	8,954.9	12,823.3	9,776.4	37.5	30.8	139.02	-2,633.3	-1,959.4	1,059.8	998.5	61.30	17.290		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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	
11,875.0	8,955.0	12,898.3	9,776.4	37.8	31.2	139.02	-2,708.3	-1,960.1	1,059.8	997.7	62.19	17.043	
11,900.0	8,955.0	12,923.3	9,776.4	37.9	31.3	139.01	-2,733.3	-1,960.3	1,059.8	997.4	62.48	16.962	
11,970.0	8,955.0	12,993.3	9,776.5	38.3	31.7	139.01	-2,803.3	-1,960.9	1,059.9	996.5	63.32	16.737	
12,000.0	8,955.1	13,023.3	9,776.5	38.4	31.8	139.01	-2,833.3	-1,961.2	1,059.9	996.2	63.69	16.642	
12,065.0	8,955.1	13,088.3	9,776.5	38.7	32.2	139.01	-2,898.3	-1,961.7	1,059.9	995.4	64.48	16.438	
12,100.0	8,955.1	13,123.3	9,776.5	38.9	32.4	139.01	-2,933.3	-1,962.0	1,059.9	995.0	64.90	16.330	
12,160.0	8,955.2	13,183.3	9,776.6	39.2	32.7	139.01	-2,993.3	-1,962.6	1,059.9	994.3	65.64	16.147	
12,200.0	8,955.2	13,223.3	9,776.6	39.3	33.0	139.00	-3,033.3	-1,962.9	1,059.9	993.8	66.13	16.027	
12,255.0	8,955.3	13,278.3	9,776.6	39.6	33.3	139.00	-3,088.3	-1,963.4	1,059.9	993.1	66.82	15.863	
12,300.0	8,955.3	13,323.3	9,776.7	39.8	33.5	139.00	-3,133.3	-1,963.8	1,059.9	992.5	67.38	15.731	
12,350.0	8,955.3	13,373.3	9,776.7	40.1	33.8	139.00	-3,183.3	-1,964.3	1,059.9	991.9	68.01	15.586	
12,400.0	8,955.4	13,423.3	9,776.7	40.3	34.1	139.00	-3,233.3	-1,964.7	1,059.9	991.3	68.64	15.443	
12,445.0	8,955.4	13,468.3	9,776.7	40.5	34.4	139.00	-3,278.3	-1,965.1	1,059.9	990.7	69.21	15.316	
12,500.0	8,955.5	13,523.3	9,776.8	40.8	34.7	138.99	-3,333.3	-1,965.6	1,060.0	990.0	69.90	15.163	
12,540.0	8,955.5	13,563.3	9,776.8	41.0	34.9	138.99	-3,373.3	-1,965.9	1,060.0	989.5	70.42	15.053	
12,600.0	8,955.6	13,623.3	9,776.8	41.3	35.3	138.99	-3,433.3	-1,966.5	1,060.0	988.8	71.19	14.890	
12,635.0	8,955.6	13,658.3	9,776.8	41.5	35.5	138.99	-3,468.3	-1,966.8	1,060.0	988.3	71.64	14.797	
12,700.0	8,955.6	13,723.3	9,776.9	41.8	35.9	138.99	-3,533.3	-1,967.4	1,060.0	987.5	72.48	14.625	
12,730.0	8,955.7	13,753.3	9,776.9	42.0	36.1	138.99	-3,563.3	-1,967.6	1,060.0	987.1	72.87	14.547	
12,800.0	8,955.7	13,823.3	9,776.9	42.4	36.5	138.98	-3,633.3	-1,968.2	1,060.0	986.2	73.78	14.368	
12,825.0	8,955.7	13,848.3	9,776.9	42.5	36.7	138.98	-3,658.3	-1,968.5	1,060.0	985.9	74.10	14.304	
12,900.0	8,955.8	13,923.3	9,777.0	42.9	37.1	138.98	-3,733.2	-1,969.1	1,060.0	984.9	75.09	14.117	
12,920.0	8,955.8	13,943.3	9,777.0	43.0	37.3	138.98	-3,753.2	-1,969.3	1,060.0	984.7	75.35	14.068	
13,000.0	8,955.9	14,023.3	9,777.0	43.4	37.8	138.98	-3,833.2	-1,970.0	1,060.0	983.6	76.41	13.873	
13,015.0	8,955.9	14,038.3	9,777.0	43.5	37.9	138.98	-3,848.2	-1,970.2	1,060.0	983.4	76.61	13.837	
13,100.0	8,956.0	14,123.3	9,777.1	44.0	38.4	138.97	-3,933.2	-1,970.9	1,060.1	982.3	77.74	13.637	
13,110.0	8,956.0	14,133.3	9,777.1	44.0	38.5	138.97	-3,943.2	-1,971.0	1,060.1	982.2	77.87	13.613	
13,200.0	8,956.0	14,223.3	9,777.1	44.5	39.0	138.97	-4,033.2	-1,971.8	1,060.1	981.0	79.07	13.406	
13,205.0	8,956.0	14,228.3	9,777.1	44.6	39.1	138.97	-4,038.2	-1,971.8	1,060.1	980.9	79.14	13.395	
13,300.0	8,956.1	14,323.3	9,777.2	45.1	39.7	138.97	-4,133.2	-1,972.7	1,060.1	979.7	80.42	13.182	
13,395.0	8,956.2	14,418.3	9,777.2	45.6	40.3	138.96	-4,228.2	-1,973.5	1,060.1	978.4	81.70	12.975	
13,400.0	8,956.2	14,423.3	9,777.2	45.7	40.3	138.96	-4,233.2	-1,973.6	1,060.1	978.3	81.77	12.965	
13,490.0	8,956.3	14,513.3	9,777.3	46.2	40.9	138.96	-4,323.2	-1,974.4	1,060.1	977.1	82.99	12.774	
13,500.0	8,956.3	14,523.3	9,777.3	46.2	41.0	138.96	-4,333.2	-1,974.5	1,060.1	977.0	83.13	12.753	
13,585.0	8,956.3	14,608.3	9,777.3	46.7	41.5	138.96	-4,418.2	-1,975.2	1,060.1	975.9	84.29	12.577	
13,600.0	8,956.4	14,623.3	9,777.3	46.8	41.6	138.96	-4,433.2	-1,975.3	1,060.1	975.6	84.49	12.547	
13,680.0	8,956.4	14,703.3	9,777.4	47.3	42.2	138.95	-4,513.2	-1,976.0	1,060.2	974.6	85.59	12.386	
13,700.0	8,956.4	14,723.3	9,777.4	47.4	42.3	138.95	-4,533.2	-1,976.2	1,060.2	974.3	85.87	12.347	
13,775.0	8,956.5	14,798.3	9,777.4	47.8	42.8	138.95	-4,608.2	-1,976.9	1,060.2	973.3	86.90	12.200	
13,800.0	8,956.5	14,823.3	9,777.4	48.0	43.0	138.95	-4,633.2	-1,977.1	1,060.2	972.9	87.24	12.152	
13,870.0	8,956.6	14,893.3	9,777.5	48.4	43.4	138.95	-4,703.2	-1,977.7	1,060.2	972.0	88.21	12.019	
13,900.0	8,956.6	14,923.3	9,777.5	48.5	43.6	138.95	-4,733.2	-1,978.0	1,060.2	971.6	88.63	11.962	
13,965.0	8,956.6	14,988.3	9,777.5	48.9	44.1	138.95	-4,798.2	-1,978.6	1,060.2	970.7	89.53	11.842	
14,000.0	8,956.7	15,023.3	9,777.5	49.1	44.3	138.94	-4,833.2	-1,978.9	1,060.2	970.2	90.02	11.778	
14,060.0	8,956.7	15,083.3	9,777.6	49.5	44.7	138.94	-4,893.2	-1,979.4	1,060.2	969.4	90.85	11.670	
14,100.0	8,956.8	15,123.3	9,777.6	49.7	45.0	138.94	-4,933.2	-1,979.8	1,060.2	968.8	91.41	11.598	
14,155.0	8,956.8	15,178.3	9,777.6	50.1	45.4	138.94	-4,988.2	-1,980.3	1,060.2	968.1	92.18	11.502	
14,200.0	8,956.8	15,223.3	9,777.7	50.3	45.7	138.94	-5,033.2	-1,980.7	1,060.2	967.4	92.81	11.424	
14,250.0	8,956.9	15,273.3	9,777.7	50.6	46.0	138.94	-5,083.2	-1,981.1	1,060.3	966.7	93.51	11.338	
14,300.0	8,956.9	15,323.3	9,777.7	50.9	46.3	138.93	-5,133.2	-1,981.5	1,060.3	966.0	94.22	11.254	
14,345.0	8,957.0	15,368.3	9,777.7	51.2	46.7	138.93	-5,178.2	-1,981.9	1,060.3	965.4	94.85	11.178	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Offset Wellbore Centre				Rule Assigned: Distance			Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
14,400.0	8,957.0	15,423.3	9,777.8	51.6	47.0	138.93	-5,233.2	-1,982.4	1,060.3	964.7	95.63	11.088		
14,440.0	8,957.0	15,463.3	9,777.8	51.8	47.3	138.93	-5,273.2	-1,982.8	1,060.3	964.1	96.19	11.023		
14,500.0	8,957.1	15,523.3	9,777.8	52.2	47.7	138.93	-5,333.2	-1,983.3	1,060.3	963.3	97.04	10.927		
14,535.0	8,957.1	15,558.3	9,777.8	52.4	48.0	138.93	-5,368.2	-1,983.6	1,060.3	962.8	97.53	10.871		
14,600.0	8,957.2	15,623.3	9,777.9	52.8	48.4	138.92	-5,433.2	-1,984.2	1,060.3	961.9	98.46	10.769		
14,630.0	8,957.2	15,653.3	9,777.9	53.0	48.6	138.92	-5,463.2	-1,984.5	1,060.3	961.4	98.88	10.723		
14,700.0	8,957.2	15,723.3	9,777.9	53.4	49.1	138.92	-5,533.2	-1,985.1	1,060.3	960.5	99.88	10.616		
14,725.0	8,957.3	15,748.3	9,777.9	53.6	49.3	138.92	-5,558.2	-1,985.3	1,060.3	960.1	100.23	10.579		
14,800.0	8,957.3	15,823.3	9,778.0	54.0	49.8	138.92	-5,633.2	-1,986.0	1,060.4	959.0	101.30	10.467		
14,820.0	8,957.3	15,843.3	9,778.0	54.2	49.9	138.92	-5,653.2	-1,986.1	1,060.4	958.8	101.59	10.438		
14,900.0	8,957.4	15,923.3	9,778.0	54.7	50.5	138.91	-5,733.2	-1,986.9	1,060.4	957.6	102.73	10.322		
14,915.0	8,957.4	15,938.3	9,778.0	54.8	50.6	138.91	-5,748.2	-1,987.0	1,060.4	957.4	102.95	10.300		
15,000.0	8,957.5	16,023.3	9,778.1	55.3	51.2	138.91	-5,833.2	-1,987.7	1,060.4	956.2	104.17	10.180		
15,010.0	8,957.5	16,033.3	9,778.1	55.4	51.3	138.91	-5,843.2	-1,987.8	1,060.4	956.1	104.31	10.166		
15,100.0	8,957.6	16,123.3	9,778.1	56.0	51.9	138.91	-5,933.2	-1,988.6	1,060.4	954.8	105.60	10.042		
15,105.0	8,957.6	16,128.3	9,778.1	56.0	51.9	138.91	-5,938.2	-1,988.7	1,060.4	954.7	105.67	10.035		
15,200.0	8,957.6	16,223.3	9,778.2	56.6	52.6	138.90	-6,033.2	-1,989.5	1,060.4	953.4	107.04	9.907		
15,295.0	8,957.7	16,318.3	9,778.2	57.2	53.3	138.90	-6,128.2	-1,990.4	1,060.4	952.0	108.41	9.782		
15,300.0	8,957.7	16,323.3	9,778.2	57.2	53.3	138.90	-6,133.2	-1,990.4	1,060.4	952.0	108.48	9.775		
15,390.0	8,957.8	16,413.3	9,778.3	57.8	53.9	138.90	-6,223.1	-1,991.2	1,060.5	950.7	109.78	9.659		
15,400.0	8,957.8	16,423.3	9,778.3	57.9	54.0	138.90	-6,233.1	-1,991.3	1,060.5	950.5	109.93	9.647		
15,485.0	8,957.9	16,508.3	9,778.3	58.4	54.6	138.89	-6,318.1	-1,992.0	1,060.5	949.3	111.16	9.540		
15,500.0	8,957.9	16,523.3	9,778.3	58.5	54.7	138.89	-6,333.1	-1,992.2	1,060.5	949.1	111.38	9.521		
15,580.0	8,957.9	16,603.3	9,778.4	59.1	55.3	138.89	-6,413.1	-1,992.9	1,060.5	948.0	112.54	9.423		
15,600.0	8,958.0	16,623.3	9,778.4	59.2	55.4	138.89	-6,433.1	-1,993.1	1,060.5	947.7	112.83	9.399		
15,675.0	8,958.0	16,698.3	9,778.4	59.7	56.0	138.89	-6,508.1	-1,993.7	1,060.5	946.6	113.92	9.309		
15,700.0	8,958.0	16,723.3	9,778.4	59.8	56.1	138.89	-6,533.1	-1,993.9	1,060.5	946.2	114.28	9.280		
15,770.0	8,958.1	16,793.3	9,778.5	60.3	56.6	138.88	-6,603.1	-1,994.6	1,060.5	945.2	115.30	9.198		
15,800.0	8,958.1	16,823.3	9,778.5	60.5	56.9	138.88	-6,633.1	-1,994.8	1,060.5	944.8	115.74	9.163		
15,865.0	8,958.2	16,888.3	9,778.5	60.9	57.3	138.88	-6,698.1	-1,995.4	1,060.5	943.9	116.69	9.089		
15,900.0	8,958.2	16,923.3	9,778.6	61.2	57.6	138.88	-6,733.1	-1,995.7	1,060.5	943.3	117.20	9.049		
15,960.0	8,958.3	16,983.3	9,778.6	61.6	58.0	138.88	-6,793.1	-1,996.2	1,060.6	942.5	118.08	8.982		
16,000.0	8,958.3	17,023.3	9,778.6	61.8	58.3	138.88	-6,833.1	-1,996.6	1,060.6	941.9	118.66	8.938		
16,055.0	8,958.3	17,078.3	9,778.6	62.2	58.7	138.87	-6,888.1	-1,997.1	1,060.6	941.1	119.47	8.878		
16,100.0	8,958.4	17,123.3	9,778.7	62.5	59.0	138.87	-6,933.1	-1,997.5	1,060.6	940.5	120.12	8.829		
16,150.0	8,958.4	17,173.3	9,778.7	62.8	59.4	138.87	-6,983.1	-1,997.9	1,060.6	939.7	120.86	8.776		
16,200.0	8,958.4	17,223.3	9,778.7	63.1	59.7	138.87	-7,033.1	-1,998.4	1,060.6	939.0	121.59	8.723		
16,245.0	8,958.5	17,268.3	9,778.7	63.5	60.0	138.87	-7,078.1	-1,998.8	1,060.6	938.4	122.25	8.676		
16,300.0	8,958.5	17,323.3	9,778.8	63.8	60.4	138.87	-7,133.1	-1,999.3	1,060.6	937.6	123.06	8.619		
16,340.0	8,958.6	17,363.3	9,778.8	64.1	60.7	138.87	-7,173.1	-1,999.6	1,060.6	937.0	123.65	8.578		
16,400.0	8,958.6	17,423.3	9,778.8	64.5	61.2	138.86	-7,233.1	-2,000.1	1,060.6	936.1	124.53	8.517		
16,435.0	8,958.6	17,458.3	9,778.8	64.7	61.4	138.86	-7,268.1	-2,000.5	1,060.6	935.6	125.04	8.482		
16,500.0	8,958.7	17,523.3	9,778.9	65.2	61.9	138.86	-7,333.1	-2,001.0	1,060.7	934.7	126.00	8.418		
16,530.0	8,958.7	17,553.3	9,778.9	65.4	62.1	138.86	-7,363.1	-2,001.3	1,060.7	934.2	126.44	8.388		
16,600.0	8,958.8	17,623.3	9,778.9	65.8	62.6	138.86	-7,433.1	-2,001.9	1,060.7	933.2	127.47	8.321		
16,625.0	8,958.8	17,648.3	9,778.9	66.0	62.8	138.86	-7,458.1	-2,002.1	1,060.7	932.8	127.84	8.297		
16,700.0	8,958.8	17,723.3	9,779.0	66.5	63.3	138.85	-7,533.1	-2,002.8	1,060.7	931.7	128.95	8.226		
16,720.0	8,958.9	17,743.3	9,779.0	66.7	63.5	138.85	-7,553.1	-2,003.0	1,060.7	931.4	129.25	8.207		
16,800.0	8,958.9	17,823.3	9,779.0	67.2	64.1	138.85	-7,633.1	-2,003.7	1,060.7	930.3	130.43	8.133		
16,815.0	8,958.9	17,838.3	9,779.0	67.3	64.2	138.85	-7,648.1	-2,003.8	1,060.7	930.1	130.65	8.119		
16,900.0	8,959.0	17,923.3	9,779.1	67.9	64.8	138.85	-7,733.1	-2,004.6	1,060.7	928.8	131.91	8.041		

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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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	
16,910.0	8,959.0	17,933.3	9,779.1	67.9	64.9	138.85	-7,743.1	-2,004.7	1,060.7	928.7	132.05	8.032		
17,000.0	8,959.1	18,023.3	9,779.1	68.6	65.5	138.84	-7,833.1	-2,005.5	1,060.7	927.4	133.39	7.952		
17,005.0	8,959.1	18,028.3	9,779.1	68.6	65.5	138.84	-7,838.1	-2,005.5	1,060.7	927.3	133.46	7.948		
17,100.0	8,959.2	18,123.3	9,779.2	69.2	66.2	138.84	-7,933.1	-2,006.3	1,060.8	925.9	134.87	7.865		
17,195.0	8,959.2	18,218.3	9,779.2	69.9	66.9	138.84	-8,028.1	-2,007.2	1,060.8	924.5	136.28	7.784		
17,200.0	8,959.3	18,223.3	9,779.2	69.9	67.0	138.84	-8,033.1	-2,007.2	1,060.8	924.4	136.35	7.780		
17,290.0	8,959.3	18,313.3	9,779.3	70.6	67.6	138.83	-8,123.1	-2,008.0	1,060.8	923.1	137.69	7.704		
17,300.0	8,959.3	18,323.3	9,779.3	70.6	67.7	138.83	-8,133.1	-2,008.1	1,060.8	923.0	137.84	7.696		
17,385.0	8,959.4	18,408.3	9,779.3	71.2	68.3	138.83	-8,218.1	-2,008.9	1,060.8	921.7	139.10	7.626		
17,400.0	8,959.4	18,423.3	9,779.3	71.3	68.4	138.83	-8,233.1	-2,009.0	1,060.8	921.5	139.33	7.614		
17,480.0	8,959.5	18,503.3	9,779.4	71.9	69.0	138.83	-8,313.1	-2,009.7	1,060.8	920.3	140.52	7.549		
17,500.0	8,959.5	18,523.3	9,779.4	72.0	69.2	138.83	-8,333.1	-2,009.9	1,060.8	920.0	140.82	7.533		
17,575.0	8,959.6	18,598.3	9,779.4	72.5	69.7	138.82	-8,408.1	-2,010.6	1,060.8	918.9	141.93	7.474		
17,600.0	8,959.6	18,623.3	9,779.4	72.7	69.9	138.82	-8,433.1	-2,010.8	1,060.8	918.5	142.31	7.455		
17,670.0	8,959.6	18,693.3	9,779.5	73.2	70.4	138.82	-8,503.1	-2,011.4	1,060.9	917.5	143.35	7.400		
17,700.0	8,959.7	18,723.3	9,779.5	73.4	70.6	138.82	-8,533.1	-2,011.7	1,060.9	917.1	143.80	7.377		
17,765.0	8,959.7	18,788.3	9,779.5	73.8	71.1	138.82	-8,598.1	-2,012.2	1,060.9	916.1	144.77	7.328		
17,800.0	8,959.7	18,823.3	9,779.6	74.1	71.4	138.82	-8,633.1	-2,012.5	1,060.9	915.6	145.29	7.302		
17,860.0	8,959.8	18,883.3	9,779.6	74.5	71.8	138.81	-8,693.1	-2,013.1	1,060.9	914.7	146.19	7.257		
17,900.0	8,959.8	18,923.3	9,779.6	74.8	72.1	138.81	-8,733.1	-2,013.4	1,060.9	914.1	146.78	7.228		
17,955.0	8,959.9	18,978.3	9,779.6	75.2	72.5	138.81	-8,788.0	-2,013.9	1,060.9	913.3	147.61	7.187		
18,000.0	8,959.9	19,023.3	9,779.7	75.5	72.8	138.81	-8,833.0	-2,014.3	1,060.9	912.6	148.28	7.155		
18,050.0	8,959.9	19,073.3	9,779.7	75.8	73.2	138.81	-8,883.0	-2,014.8	1,060.9	911.9	149.03	7.119		
18,100.0	8,960.0	19,123.3	9,779.7	76.2	73.6	138.81	-8,933.0	-2,015.2	1,060.9	911.2	149.78	7.083		
18,145.0	8,960.0	19,168.3	9,779.7	76.5	73.9	138.80	-8,978.0	-2,015.6	1,060.9	910.5	150.45	7.052		
18,200.0	8,960.1	19,223.3	9,779.8	76.9	74.3	138.80	-9,033.0	-2,016.1	1,060.9	909.7	151.27	7.013		
18,240.0	8,960.1	19,263.3	9,779.8	77.2	74.6	138.80	-9,073.0	-2,016.4	1,061.0	909.1	151.87	6.986		
18,300.0	8,960.1	19,323.3	9,779.8	77.6	75.0	138.80	-9,133.0	-2,017.0	1,061.0	908.2	152.77	6.945		
18,335.0	8,960.2	19,358.3	9,779.8	77.8	75.3	138.80	-9,168.0	-2,017.3	1,061.0	907.7	153.30	6.921		
18,400.0	8,960.2	19,423.3	9,779.9	78.3	75.8	138.80	-9,233.0	-2,017.9	1,061.0	906.7	154.27	6.877		
18,430.0	8,960.2	19,453.3	9,779.9	78.5	76.0	138.80	-9,263.0	-2,018.1	1,061.0	906.3	154.72	6.857		
18,500.0	8,960.3	19,523.3	9,779.9	79.0	76.5	138.79	-9,333.0	-2,018.7	1,061.0	905.2	155.77	6.811		
18,525.0	8,960.3	19,548.3	9,779.9	79.2	76.7	138.79	-9,358.0	-2,019.0	1,061.0	904.9	156.15	6.795		
18,600.0	8,960.4	19,623.3	9,780.0	79.7	77.2	138.79	-9,433.0	-2,019.6	1,061.0	903.7	157.27	6.746		
18,620.0	8,960.4	19,643.3	9,780.0	79.8	77.4	138.79	-9,453.0	-2,019.8	1,061.0	903.4	157.57	6.734		
18,700.0	8,960.5	19,723.3	9,780.0	80.4	78.0	138.79	-9,533.0	-2,020.5	1,061.0	902.3	158.78	6.683		
18,715.0	8,960.5	19,738.3	9,780.0	80.5	78.1	138.79	-9,548.0	-2,020.7	1,061.0	902.0	159.00	6.673		
18,800.0	8,960.5	19,823.3	9,780.1	81.1	78.7	138.78	-9,633.0	-2,021.4	1,061.1	900.8	160.28	6.620		
18,810.0	8,960.5	19,833.3	9,780.1	81.2	78.8	138.78	-9,643.0	-2,021.5	1,061.1	900.6	160.43	6.614		
18,900.0	8,960.6	19,923.3	9,780.1	81.8	79.5	138.78	-9,733.0	-2,022.3	1,061.1	899.3	161.78	6.559		
18,905.0	8,960.6	19,928.3	9,780.1	81.8	79.5	138.78	-9,738.0	-2,022.3	1,061.1	899.2	161.86	6.556		
19,000.0	8,960.7	20,023.3	9,780.2	82.5	80.2	138.78	-9,833.0	-2,023.2	1,061.1	897.8	163.29	6.498		
19,095.0	8,960.8	20,118.3	9,780.2	83.2	80.9	138.77	-9,928.0	-2,024.0	1,061.1	896.4	164.72	6.442		
19,100.0	8,960.8	20,123.3	9,780.2	83.2	80.9	138.77	-9,933.0	-2,024.1	1,061.1	896.3	164.79	6.439		
19,190.0	8,960.9	20,213.3	9,780.3	83.9	81.6	138.77	-10,023.0	-2,024.9	1,061.1	895.0	166.15	6.386		
19,200.0	8,960.9	20,223.3	9,780.3	83.9	81.7	138.77	-10,033.0	-2,024.9	1,061.1	894.8	166.30	6.381		
19,285.0	8,960.9	20,308.3	9,780.3	84.6	82.3	138.77	-10,118.0	-2,025.7	1,061.1	893.6	167.58	6.332		
19,300.0	8,960.9	20,323.3	9,780.3	84.7	82.4	138.77	-10,133.0	-2,025.8	1,061.1	893.3	167.81	6.323		
19,380.0	8,961.0	20,403.3	9,780.4	85.2	83.0	138.76	-10,213.0	-2,026.5	1,061.2	892.1	169.02	6.278		
19,400.0	8,961.0	20,423.3	9,780.4	85.4	83.2	138.76	-10,233.0	-2,026.7	1,061.2	891.8	169.32	6.267		
19,475.0	8,961.1	20,498.3	9,780.4	85.9	83.7	138.76	-10,308.0	-2,027.4	1,061.2	890.7	170.45	6.226		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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	
19,500.0	8,961.1	20,523.3	9,780.4	86.1	83.9	138.76	-10,333.0	-2,027.6	1,061.2	890.3	170.83	6.212		
19,570.0	8,961.2	20,593.3	9,780.5	86.6	84.4	138.76	-10,403.0	-2,028.2	1,061.2	889.3	171.89	6.174		
19,600.0	8,961.2	20,623.3	9,780.5	86.8	84.6	138.76	-10,433.0	-2,028.5	1,061.2	888.9	172.34	6.158		
19,665.0	8,961.2	20,688.3	9,780.5	87.3	85.1	138.75	-10,498.0	-2,029.1	1,061.2	887.9	173.32	6.123		
19,700.0	8,961.3	20,723.3	9,780.6	87.5	85.4	138.75	-10,533.0	-2,029.4	1,061.2	887.4	173.85	6.104		
19,760.0	8,961.3	20,783.3	9,780.6	87.9	85.8	138.75	-10,593.0	-2,029.9	1,061.2	886.5	174.76	6.073		
19,800.0	8,961.3	20,823.3	9,780.6	88.2	86.1	138.75	-10,633.0	-2,030.3	1,061.2	885.9	175.36	6.052		
19,855.0	8,961.4	20,878.3	9,780.6	88.6	86.5	138.75	-10,688.0	-2,030.8	1,061.2	885.0	176.19	6.023		
19,900.0	8,961.4	20,923.3	9,780.7	88.9	86.9	138.75	-10,733.0	-2,031.2	1,061.2	884.4	176.87	6.000		
19,950.0	8,961.5	20,973.3	9,780.7	89.3	87.3	138.74	-10,783.0	-2,031.6	1,061.3	883.6	177.63	5.975		
20,000.0	8,961.5	21,023.3	9,780.7	89.7	87.6	138.74	-10,833.0	-2,032.0	1,061.3	882.9	178.39	5.949		
20,045.0	8,961.5	21,068.3	9,780.7	90.0	88.0	138.74	-10,878.0	-2,032.4	1,061.3	882.2	179.07	5.927		
20,100.0	8,961.6	21,123.3	9,780.8	90.4	88.4	138.74	-10,933.0	-2,032.9	1,061.3	881.4	179.90	5.899		
20,140.0	8,961.6	21,163.3	9,780.8	90.7	88.7	138.74	-10,973.0	-2,033.3	1,061.3	880.8	180.51	5.880		
20,200.0	8,961.7	21,223.3	9,780.8	91.1	89.1	138.74	-11,033.0	-2,033.8	1,061.3	879.9	181.42	5.850		
20,235.0	8,961.7	21,258.3	9,780.8	91.4	89.4	138.73	-11,068.0	-2,034.1	1,061.3	879.4	181.95	5.833		
20,300.0	8,961.7	21,323.3	9,780.9	91.8	89.9	138.73	-11,133.0	-2,034.7	1,061.3	878.4	182.93	5.802		
20,330.0	8,961.8	21,353.3	9,780.9	92.0	90.1	138.73	-11,163.0	-2,035.0	1,061.3	877.9	183.39	5.787		
20,400.0	8,961.8	21,423.3	9,780.9	92.5	90.6	138.73	-11,233.0	-2,035.6	1,061.3	876.9	184.45	5.754		
20,425.0	8,961.8	21,448.3	9,780.9	92.7	90.8	138.73	-11,258.0	-2,035.8	1,061.3	876.5	184.83	5.742		
20,500.0	8,961.9	21,523.3	9,781.0	93.3	91.4	138.73	-11,332.9	-2,036.5	1,061.4	875.4	185.96	5.707		
20,520.0	8,961.9	21,543.3	9,781.0	93.4	91.5	138.72	-11,352.9	-2,036.6	1,061.4	875.1	186.27	5.698		
20,600.0	8,962.0	21,623.3	9,781.0	94.0	92.1	138.72	-11,432.9	-2,037.4	1,061.4	873.9	187.48	5.661		
20,615.0	8,962.0	21,638.3	9,781.0	94.1	92.2	138.72	-11,447.9	-2,037.5	1,061.4	873.7	187.71	5.654		
20,700.0	8,962.1	21,723.3	9,781.1	94.7	92.8	138.72	-11,532.9	-2,038.2	1,061.4	872.4	189.00	5.616		
20,710.0	8,962.1	21,733.3	9,781.1	94.8	92.9	138.72	-11,542.9	-2,038.3	1,061.4	872.2	189.15	5.611		
20,800.0	8,962.1	21,823.3	9,781.1	95.4	93.6	138.72	-11,632.9	-2,039.1	1,061.4	870.9	190.52	5.571		
20,805.0	8,962.2	21,828.3	9,781.1	95.5	93.6	138.72	-11,637.9	-2,039.2	1,061.4	870.8	190.59	5.569		
20,900.0	8,962.2	21,923.3	9,781.2	96.2	94.3	138.71	-11,732.9	-2,040.0	1,061.4	869.4	192.03	5.527		
20,995.0	8,962.3	22,018.3	9,781.2	96.9	95.0	138.71	-11,827.9	-2,040.9	1,061.4	868.0	193.48	5.486		
21,000.0	8,962.3	22,023.3	9,781.2	96.9	95.1	138.71	-11,832.9	-2,040.9	1,061.4	867.9	193.55	5.484		
21,090.0	8,962.4	22,113.3	9,781.3	97.5	95.8	138.71	-11,922.9	-2,041.7	1,061.5	866.5	194.92	5.446		
21,100.0	8,962.4	22,123.3	9,781.3	97.6	95.8	138.71	-11,932.9	-2,041.8	1,061.5	866.4	195.07	5.441		
21,185.0	8,962.5	22,208.3	9,781.3	98.2	96.5	138.70	-12,017.9	-2,042.5	1,061.5	865.1	196.37	5.406		
21,200.0	8,962.5	22,223.3	9,781.3	98.3	96.6	138.70	-12,032.9	-2,042.7	1,061.5	864.9	196.59	5.399		
21,280.0	8,962.5	22,303.3	9,781.4	98.9	97.2	138.70	-12,112.9	-2,043.4	1,061.5	863.7	197.81	5.366		
21,300.0	8,962.5	22,323.3	9,781.4	99.1	97.3	138.70	-12,132.9	-2,043.6	1,061.5	863.4	198.11	5.358		
21,375.0	8,962.6	22,398.3	9,781.4	99.6	97.9	138.70	-12,207.9	-2,044.2	1,061.5	862.3	199.25	5.327		
21,400.0	8,962.6	22,423.3	9,781.5	99.8	98.1	138.70	-12,232.9	-2,044.4	1,061.5	861.9	199.64	5.317		
21,470.0	8,962.7	22,493.3	9,781.5	100.3	98.6	138.69	-12,302.9	-2,045.1	1,061.5	860.8	200.70	5.289		
21,500.0	8,962.7	22,523.3	9,781.5	100.5	98.8	138.69	-12,332.9	-2,045.3	1,061.5	860.4	201.16	5.277		
21,565.0	8,962.8	22,588.3	9,781.5	101.0	99.3	138.69	-12,397.9	-2,045.9	1,061.5	859.4	202.15	5.251		
21,600.0	8,962.8	22,623.3	9,781.6	101.3	99.6	138.69	-12,432.9	-2,046.2	1,061.5	858.9	202.68	5.238		
21,660.0	8,962.8	22,683.3	9,781.6	101.7	100.0	138.69	-12,492.9	-2,046.7	1,061.6	858.0	203.59	5.214		
21,700.0	8,962.9	22,723.3	9,781.6	102.0	100.3	138.69	-12,532.9	-2,047.1	1,061.6	857.4	204.20	5.199		
21,755.0	8,962.9	22,778.3	9,781.6	102.4	100.7	138.68	-12,587.9	-2,047.6	1,061.6	856.5	205.04	5.177		
21,800.0	8,963.0	22,823.3	9,781.7	102.7	101.1	138.68	-12,632.9	-2,048.0	1,061.6	855.9	205.72	5.160		
21,850.0	8,963.0	22,873.3	9,781.7	103.1	101.4	138.68	-12,682.9	-2,048.4	1,061.6	855.1	206.49	5.141		
21,900.0	8,963.0	22,923.3	9,781.7	103.4	101.8	138.68	-12,732.9	-2,048.9	1,061.6	854.4	207.25	5.122		
21,945.0	8,963.1	22,968.3	9,781.7	103.8	102.2	138.68	-12,777.9	-2,049.3	1,061.6	853.7	207.93	5.106		
22,000.0	8,963.1	23,023.3	9,781.8	104.2	102.6	138.68	-12,832.9	-2,049.8	1,061.6	852.8	208.77	5.085		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Offset Wellbore Centre		Distance		Minimum	Separation	Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor		
22,040.0	8,963.1	23,063.3	9,781.8	104.5	102.9	138.67	-12,872.9	-2,050.1	1,061.6	852.2	209.38	5.070	
22,100.0	8,963.2	23,123.3	9,781.8	104.9	103.3	138.67	-12,932.9	-2,050.6	1,061.6	851.3	210.30	5.048	
22,135.0	8,963.2	23,158.3	9,781.8	105.2	103.6	138.67	-12,967.9	-2,051.0	1,061.6	850.8	210.83	5.036	
22,200.0	8,963.3	23,223.3	9,781.9	105.6	104.1	138.67	-13,032.9	-2,051.5	1,061.7	849.8	211.82	5.012	
22,230.0	8,963.3	23,253.3	9,781.9	105.9	104.3	138.67	-13,062.9	-2,051.8	1,061.7	849.4	212.28	5.001	
22,300.0	8,963.4	23,323.3	9,781.9	106.4	104.8	138.67	-13,132.9	-2,052.4	1,061.7	848.3	213.35	4.976	
22,325.0	8,963.4	23,348.3	9,781.9	106.6	105.0	138.66	-13,157.9	-2,052.6	1,061.7	847.9	213.73	4.967	
22,400.0	8,963.4	23,423.3	9,782.0	107.1	105.6	138.66	-13,232.9	-2,053.3	1,061.7	846.8	214.87	4.941	
22,420.0	8,963.5	23,443.3	9,782.0	107.2	105.7	138.66	-13,252.9	-2,053.5	1,061.7	846.5	215.18	4.934	
22,500.0	8,963.5	23,523.3	9,782.0	107.8	106.3	138.66	-13,332.9	-2,054.2	1,061.7	845.3	216.40	4.906	
22,515.0	8,963.5	23,538.3	9,782.0	107.9	106.4	138.66	-13,347.9	-2,054.3	1,061.7	845.1	216.63	4.901	
22,600.0	8,963.6	23,623.3	9,782.1	108.6	107.1	138.66	-13,432.9	-2,055.1	1,061.7	843.8	217.92	4.872	
22,610.0	8,963.6	23,633.3	9,782.1	108.6	107.2	138.65	-13,442.9	-2,055.2	1,061.7	843.7	218.08	4.869	
22,700.0	8,963.7	23,723.3	9,782.1	109.3	107.8	138.65	-13,532.9	-2,056.0	1,061.7	842.3	219.45	4.838	
22,705.0	8,963.7	23,728.3	9,782.1	109.3	107.9	138.65	-13,537.9	-2,056.0	1,061.7	842.2	219.53	4.837	
22,800.0	8,963.8	23,823.3	9,782.2	110.0	108.6	138.65	-13,632.9	-2,056.8	1,061.8	840.8	220.98	4.805	
22,895.0	8,963.8	23,918.3	9,782.2	110.7	109.3	138.65	-13,727.9	-2,057.7	1,061.8	839.3	222.43	4.774	
22,900.0	8,963.8	23,923.3	9,782.2	110.8	109.3	138.65	-13,732.9	-2,057.7	1,061.8	839.3	222.51	4.772	
22,990.0	8,963.9	24,013.3	9,782.3	111.4	110.0	138.64	-13,822.8	-2,058.5	1,061.8	837.9	223.88	4.743	
23,000.0	8,963.9	24,023.3	9,782.3	111.5	110.1	138.64	-13,832.8	-2,058.6	1,061.8	837.8	224.03	4.739	
23,085.0	8,964.0	24,108.3	9,782.3	112.1	110.7	138.64	-13,917.8	-2,059.4	1,061.8	836.5	225.33	4.712	
23,100.0	8,964.0	24,123.3	9,782.3	112.2	110.8	138.64	-13,932.8	-2,059.5	1,061.8	836.3	225.56	4.707	
23,180.0	8,964.1	24,203.3	9,782.4	112.8	111.4	138.64	-14,012.8	-2,060.2	1,061.8	835.0	226.78	4.682	
23,200.0	8,964.1	24,223.3	9,782.4	113.0	111.6	138.64	-14,032.8	-2,060.4	1,061.8	834.7	227.09	4.676	
23,275.0	8,964.1	24,298.3	9,782.4	113.5	112.2	138.63	-14,107.8	-2,061.1	1,061.8	833.6	228.24	4.652	
23,300.0	8,964.2	24,323.3	9,782.5	113.7	112.3	138.63	-14,132.8	-2,061.3	1,061.9	833.2	228.62	4.645	
23,370.0	8,964.2	24,393.3	9,782.5	114.2	112.9	138.63	-14,202.8	-2,061.9	1,061.9	832.2	229.69	4.623	
23,400.0	8,964.2	24,423.3	9,782.5	114.4	113.1	138.63	-14,232.8	-2,062.2	1,061.9	831.7	230.15	4.614	
23,465.0	8,964.3	24,488.3	9,782.5	114.9	113.6	138.63	-14,297.8	-2,062.7	1,061.9	830.7	231.14	4.594	
23,500.0	8,964.3	24,523.3	9,782.6	115.2	113.8	138.62	-14,332.8	-2,063.0	1,061.9	830.2	231.68	4.583	
23,560.0	8,964.4	24,583.3	9,782.6	115.6	114.3	138.62	-14,392.8	-2,063.6	1,061.9	829.3	232.59	4.565	
23,600.0	8,964.4	24,623.3	9,782.6	115.9	114.6	138.62	-14,432.8	-2,063.9	1,061.9	828.7	233.21	4.553	
23,655.0	8,964.4	24,678.3	9,782.6	116.3	115.0	138.62	-14,487.8	-2,064.4	1,061.9	827.9	234.05	4.537	
23,700.0	8,964.5	24,723.3	9,782.7	116.7	115.4	138.62	-14,532.8	-2,064.8	1,061.9	827.2	234.74	4.524	
23,750.0	8,964.5	24,773.3	9,782.7	117.0	115.7	138.62	-14,582.8	-2,065.3	1,061.9	826.4	235.50	4.509	
23,800.0	8,964.6	24,823.3	9,782.7	117.4	116.1	138.61	-14,632.8	-2,065.7	1,061.9	825.7	236.27	4.495	
23,845.0	8,964.6	24,868.3	9,782.7	117.7	116.4	138.61	-14,677.8	-2,066.1	1,061.9	825.0	236.96	4.482	
23,900.0	8,964.6	24,923.3	9,782.8	118.1	116.9	138.61	-14,732.8	-2,066.6	1,062.0	824.2	237.80	4.466	
23,940.0	8,964.7	24,963.3	9,782.8	118.4	117.2	138.61	-14,772.8	-2,066.9	1,062.0	823.6	238.41	4.454	
24,000.0	8,964.7	25,023.3	9,782.8	118.9	117.6	138.61	-14,832.8	-2,067.5	1,062.0	822.6	239.33	4.437	
24,035.0	8,964.8	25,058.3	9,782.8	119.1	117.9	138.61	-14,867.8	-2,067.8	1,062.0	822.1	239.86	4.427	
24,100.0	8,964.8	25,123.3	9,782.9	119.6	118.4	138.60	-14,932.8	-2,068.4	1,062.0	821.1	240.86	4.409	
24,130.0	8,964.8	25,153.3	9,782.9	119.8	118.6	138.60	-14,962.8	-2,068.6	1,062.0	820.7	241.32	4.401	
24,200.0	8,964.9	25,223.3	9,782.9	120.4	119.1	138.60	-15,032.8	-2,069.2	1,062.0	819.6	242.39	4.381	
24,214.6	8,964.9	25,237.8	9,782.9	120.5	119.2	138.60	-15,047.4	-2,069.4	1,062.0	819.4	242.61	4.377	
24,225.0	8,964.9	25,248.3	9,782.9	120.5	119.3	138.60	-15,057.8	-2,069.5	1,062.0	819.2	242.77	4.375	
24,300.0	8,965.0	25,323.3	9,783.0	121.1	119.9	138.60	-15,132.8	-2,070.1	1,062.0	818.1	243.92	4.354	
24,320.0	8,965.0	25,343.3	9,783.0	121.2	120.0	138.60	-15,152.8	-2,070.3	1,062.0	817.8	244.23	4.349	
24,320.1	8,965.0	25,343.3	9,783.0	121.2	120.0	138.60	-15,152.9	-2,070.3	1,062.0	817.8	244.23	4.349	
24,344.7	8,965.0	25,359.2	9,783.0	121.4	120.1	138.60	-15,168.7	-2,070.5	1,062.1	817.5	244.53	4.343	
24,345.4	8,965.0	25,359.2	9,783.0	121.4	120.1	138.60	-15,168.7	-2,070.5	1,062.1	817.5	244.53	4.343 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 #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - LEONARDO BKL FEDERAL COM #1 - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		250-INC-ONLY						Rule Assigned:					Offset Well Error:	10.0 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		
9,215.0	8,913.2	8,885.0	8,879.3	30.3	261.2	-31.85	-1,342.2	-960.9	1,312.9	1,029.8	283.03	4.639		
9,250.0	8,925.0	8,894.4	8,888.7	30.3	261.5	-36.90	-1,342.2	-960.9	1,280.8	997.4	283.40	4.519		
9,300.0	8,938.4	8,905.2	8,899.5	30.4	261.8	-46.61	-1,342.2	-960.9	1,234.0	950.2	283.86	4.347		
9,310.0	8,940.5	8,907.0	8,901.3	30.4	261.9	-48.98	-1,342.3	-960.9	1,224.6	940.6	283.94	4.313		
9,350.0	8,947.5	8,912.8	8,907.1	30.4	262.1	-60.05	-1,342.3	-960.9	1,186.4	902.2	284.24	4.174		
9,400.0	8,952.2	8,917.0	8,911.3	30.5	262.2	-77.13	-1,342.3	-960.9	1,138.3	853.8	284.52	4.001		
9,405.0	8,952.5	8,917.2	8,911.5	30.5	262.2	-78.97	-1,342.3	-960.9	1,133.5	848.9	284.54	3.984		
9,429.3	8,953.0	8,917.8	8,912.2	30.5	262.2	-87.95	-1,342.3	-960.9	1,110.0	825.4	284.64	3.900		
9,500.0	8,953.1	8,918.4	8,912.7	30.6	262.2	-88.06	-1,342.4	-960.9	1,042.0	757.1	284.91	3.657		
9,595.0	8,953.1	8,919.2	8,913.5	30.7	262.3	-88.21	-1,342.4	-960.9	951.2	665.9	285.34	3.334		
9,600.0	8,953.1	8,919.2	8,913.6	30.7	262.3	-88.22	-1,342.4	-960.9	946.4	661.1	285.37	3.317		
9,690.0	8,953.2	8,920.0	8,914.3	30.9	262.3	-88.37	-1,342.4	-960.9	861.3	575.5	285.86	3.013		
9,700.0	8,953.2	8,920.1	8,914.4	30.9	262.3	-88.39	-1,342.4	-960.9	851.9	566.0	285.92	2.980		
9,785.0	8,953.3	8,920.9	8,915.2	31.0	262.3	-88.54	-1,342.4	-960.9	772.6	486.2	286.49	2.697		
9,800.0	8,953.3	8,921.0	8,915.3	31.1	262.3	-88.56	-1,342.4	-960.9	758.8	472.2	286.61	2.647		
9,880.0	8,953.4	8,921.8	8,916.1	31.2	262.3	-88.71	-1,342.4	-960.9	685.7	398.4	287.28	2.387		
9,900.0	8,953.4	8,921.9	8,916.3	31.2	262.3	-88.75	-1,342.4	-960.9	667.6	380.2	287.47	2.322		
9,975.0	8,953.4	8,922.7	8,917.0	31.4	262.4	-88.89	-1,342.4	-960.9	601.1	312.9	288.27	2.085		
10,000.0	8,953.5	8,922.9	8,917.2	31.5	262.4	-88.94	-1,342.4	-960.9	579.4	290.9	288.58	2.008		
10,070.0	8,953.5	8,923.6	8,917.9	31.6	262.4	-89.07	-1,342.4	-960.9	520.2	230.7	289.52	1.797 Advise and Monitor		
10,100.0	8,953.5	8,923.9	8,918.2	31.7	262.4	-89.13	-1,342.4	-960.9	495.7	205.7	289.98	1.709 Advise and Monitor		
10,165.0	8,953.6	8,924.6	8,918.9	31.8	262.4	-89.26	-1,342.4	-960.9	444.9	153.8	291.07	1.529 Advise and Monitor		
10,200.0	8,953.6	8,924.9	8,919.3	31.9	262.4	-89.33	-1,342.4	-960.9	419.2	127.5	291.71	1.437 Advise and Monitor		
10,260.0	8,953.7	8,925.6	8,919.9	32.1	262.4	-89.46	-1,342.4	-960.9	378.6	85.7	292.85	1.293 Advise and Monitor		
10,300.0	8,953.7	8,926.0	8,920.3	32.2	262.5	-89.55	-1,342.4	-960.9	354.5	61.0	293.59	1.208 Advise and Monitor		
10,355.0	8,953.7	8,926.6	8,921.0	32.3	262.5	-89.67	-1,342.4	-960.9	326.7	32.2	294.45	1.109 Advise and Monitor		
10,400.0	8,953.8	8,927.2	8,921.5	32.4	262.5	-89.77	-1,342.4	-960.9	309.3	14.4	294.88	1.049 Advise and Monitor		
10,450.0	8,953.8	8,927.7	8,922.1	32.6	262.5	-89.88	-1,342.4	-960.9	296.9	2.0	294.89	1.007 Advise and Monitor		
10,500.0	8,953.9	8,928.3	8,922.6	32.7	262.5	-90.00	-1,342.5	-960.9	292.7	-1.6	294.28	0.995 Advise and Monitor, ES, SF		
10,500.1	8,953.9	8,928.3	8,922.7	32.7	262.5	-90.00	-1,342.5	-960.9	292.7	-1.6	294.28	0.995 Advise and Monitor, CC		
10,545.0	8,953.9	8,928.9	8,923.2	32.8	262.5	-90.10	-1,342.5	-960.9	296.1	2.9	293.23	1.010 Advise and Monitor		
10,600.0	8,953.9	8,929.6	8,923.9	33.0	262.6	-90.24	-1,342.5	-960.9	309.2	17.8	291.47	1.061 Advise and Monitor		
10,640.0	8,954.0	8,930.1	8,924.4	33.1	262.6	-90.34	-1,342.5	-960.9	324.4	34.3	290.07	1.118 Advise and Monitor		
10,700.0	8,954.0	8,930.8	8,925.2	33.3	262.6	-90.49	-1,342.5	-960.9	354.4	66.4	288.01	1.231 Advise and Monitor		
10,735.0	8,954.0	8,931.3	8,925.6	33.4	262.6	-90.58	-1,342.5	-960.9	375.3	88.3	286.95	1.308 Advise and Monitor		
10,800.0	8,954.1	8,932.2	8,926.5	33.6	262.6	-90.75	-1,342.5	-960.9	419.0	133.7	285.28	1.469 Advise and Monitor		
10,830.0	8,954.1	8,932.6	8,926.9	33.7	262.7	-90.83	-1,342.5	-960.9	441.0	156.3	284.66	1.549 Advise and Monitor		
10,900.0	8,954.2	8,933.6	8,927.9	34.0	262.7	-91.02	-1,342.5	-960.9	495.5	212.0	283.52	1.748 Advise and Monitor		
10,925.0	8,954.2	8,933.9	8,928.2	34.0	262.7	-91.09	-1,342.5	-960.9	515.9	232.7	283.21	1.822 Advise and Monitor		
11,000.0	8,954.3	8,935.0	8,929.4	34.3	262.7	-91.31	-1,342.5	-960.9	579.2	296.7	282.50	2.050		
11,020.0	8,954.3	8,935.3	8,929.7	34.4	262.7	-91.37	-1,342.5	-960.9	596.6	314.2	282.35	2.113		
11,100.0	8,954.3	8,936.6	8,930.9	34.7	262.8	-91.61	-1,342.6	-960.9	667.4	385.5	281.93	2.367		
11,115.0	8,954.4	8,936.8	8,931.1	34.7	262.8	-91.66	-1,342.6	-960.9	680.9	399.1	281.88	2.416		
11,200.0	8,954.4	8,938.2	8,932.5	35.0	262.8	-91.92	-1,342.6	-960.9	758.6	476.9	281.65	2.693		
11,210.0	8,954.4	8,938.3	8,932.7	35.1	262.8	-91.96	-1,342.6	-960.9	767.8	486.2	281.63	2.726		
11,300.0	8,954.5	8,939.9	8,934.2	35.4	262.9	-92.25	-1,342.6	-960.9	851.7	570.1	281.54	3.025		
11,305.0	8,954.5	8,940.0	8,934.3	35.4	262.9	-92.27	-1,342.6	-960.9	856.4	574.8	281.53	3.042		
11,400.0	8,954.6	8,941.7	8,936.0	35.8	262.9	-92.60	-1,342.6	-960.9	946.2	664.7	281.52	3.361		
11,495.0	8,954.7	8,943.4	8,937.7	36.2	263.0	-92.95	-1,342.6	-960.9	1,037.0	755.4	281.56	3.683		
11,500.0	8,954.7	8,943.5	8,937.8	36.2	263.0	-92.97	-1,342.6	-960.9	1,041.8	760.2	281.57	3.700		
11,590.0	8,954.7	8,945.3	8,939.6	36.6	263.0	-93.31	-1,342.7	-960.9	1,128.4	846.8	281.64	4.007		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design:		FLAMING SNAIL FED COM PROJECT - LEONARDO BKL FEDERAL COM #1 - OWB - AWP										Offset Site Error:		0.0 usft	
Survey Program:		250-INC-ONLY										Offset Well Error:		10.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:			Warning			
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Distance						
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Between	Between	Minimum	Separation			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	Separation	Factor			
									(usft)	(usft)	(usft)				
11,600.0	8,954.7	8,945.5	8,939.8	36.6	263.0	-93.35	-1,342.7	-960.9	1,138.1	856.4	281.65	4.041			
11,685.0	8,954.8	8,947.3	8,941.6	37.0	263.1	-93.70	-1,342.7	-960.9	1,220.4	938.6	281.75	4.332			
11,700.0	8,954.8	8,947.6	8,941.9	37.1	263.1	-93.76	-1,342.7	-960.9	1,235.0	953.2	281.76	4.383			
11,780.0	8,954.9	8,949.3	8,943.6	37.4	263.2	-94.10	-1,342.7	-960.9	1,312.8	1,030.9	281.87	4.658			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AWP													Offset Site Error:	0.0 usft	
Survey Program:		430-MWD						Rule Assigned:						Offset Well Error:	3.0 usft
Measured	Reference	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
6,600.0	6,462.3	6,484.7	6,479.6	26.2	26.7	10.64	805.4	-2,311.9	1,308.7	1,258.6	50.06	26.141			
6,650.0	6,510.8	6,535.1	6,530.0	26.4	26.9	10.61	802.4	-2,312.0	1,295.6	1,245.2	50.46	25.678			
6,700.0	6,559.4	6,586.1	6,580.9	26.6	27.0	10.59	799.4	-2,311.9	1,282.5	1,231.7	50.85	25.221			
6,745.0	6,603.0	6,630.7	6,625.4	26.9	27.1	10.59	797.0	-2,311.6	1,270.6	1,219.4	51.20	24.815			
6,772.7	6,629.9	6,656.5	6,651.1	27.0	27.2	10.58	795.6	-2,311.5	1,263.3	1,211.9	51.42	24.567			
6,800.0	6,656.4	6,681.9	6,676.6	27.1	27.3	10.56	794.3	-2,311.3	1,256.2	1,204.6	51.63	24.329			
6,840.0	6,695.4	6,719.2	6,713.8	27.3	27.4	10.51	792.4	-2,311.1	1,246.4	1,194.4	51.96	23.988			
6,900.0	6,754.1	6,774.5	6,769.1	27.6	27.6	10.45	789.8	-2,310.9	1,232.7	1,180.2	52.45	23.504			
6,935.0	6,788.4	6,808.0	6,802.5	27.8	27.7	10.42	788.4	-2,310.7	1,225.3	1,172.6	52.72	23.241			
7,000.0	6,852.4	6,857.0	6,851.4	28.1	27.9	10.38	786.7	-2,310.7	1,213.1	1,159.9	53.26	22.778			
7,030.0	6,882.0	6,880.1	6,874.6	28.2	27.9	10.37	786.2	-2,310.7	1,208.2	1,154.7	53.50	22.585			
7,100.0	6,951.3	6,941.7	6,936.2	28.5	28.1	10.37	785.4	-2,311.1	1,198.5	1,144.5	54.04	22.176			
7,125.0	6,976.1	6,965.7	6,960.2	28.6	28.2	10.37	785.2	-2,311.3	1,195.5	1,141.3	54.23	22.044			
7,200.0	7,050.7	7,022.0	7,016.4	29.0	28.4	10.39	785.3	-2,311.9	1,188.3	1,133.5	54.80	21.683			
7,220.0	7,070.6	7,022.0	7,016.4	29.0	28.4	10.39	785.3	-2,311.9	1,187.0	1,132.0	54.95	21.602			
7,291.1	7,141.4	7,060.7	7,055.0	29.3	28.5	10.50	787.9	-2,312.6	1,185.0	1,129.6	55.41	21.385 CC			
7,300.0	7,150.4	7,065.9	7,060.2	29.3	28.5	10.53	788.4	-2,312.7	1,185.0	1,129.6	55.47	21.364 ES			
7,315.0	7,165.3	7,074.7	7,068.9	29.4	28.6	10.58	789.5	-2,312.9	1,185.2	1,129.7	55.56	21.334			
7,400.0	7,250.3	7,117.0	7,110.5	29.7	28.7	10.93	797.2	-2,313.5	1,189.4	1,133.4	55.98	21.246 SF			
7,410.0	7,260.3	7,117.0	7,110.5	29.7	28.7	10.94	797.2	-2,313.5	1,190.3	1,134.3	56.00	21.255			
7,472.7	7,323.0	7,149.0	7,141.4	29.8	28.8	-64.93	805.6	-2,314.1	1,197.8	1,141.6	56.15	21.333			
7,500.0	7,350.3	7,149.0	7,141.4	29.8	28.8	-64.93	805.6	-2,314.1	1,201.9	1,145.8	56.11	21.420			
7,505.0	7,355.3	7,157.5	7,149.4	29.8	28.8	-64.82	808.2	-2,314.3	1,202.7	1,146.6	56.14	21.425			
7,600.0	7,450.3	7,198.7	7,188.1	29.8	29.0	-64.23	822.4	-2,315.4	1,220.1	1,164.0	56.09	21.751			
7,695.0	7,545.3	7,245.0	7,230.0	29.8	29.1	-63.42	842.1	-2,316.8	1,241.6	1,185.7	55.98	22.181			
7,700.0	7,550.3	7,245.0	7,230.0	29.8	29.1	-63.42	842.1	-2,316.8	1,242.9	1,186.9	55.95	22.212			
7,790.0	7,640.3	7,276.0	7,257.2	29.9	29.2	-62.80	857.0	-2,317.7	1,267.1	1,211.4	55.68	22.758			
7,800.0	7,650.3	7,285.7	7,265.5	29.9	29.2	-62.60	861.9	-2,317.9	1,270.0	1,214.3	55.68	22.808			
7,885.0	7,735.3	7,308.0	7,284.3	29.9	29.3	-62.12	873.9	-2,318.5	1,296.7	1,241.4	55.29	23.452			
7,900.0	7,750.3	7,321.2	7,295.2	29.9	29.3	-61.82	881.3	-2,318.9	1,301.7	1,246.4	55.28	23.545			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *RKB 32ft + GL 3129.2ft @ 3161.2usft

Offset Depths are relative to Offset Datum

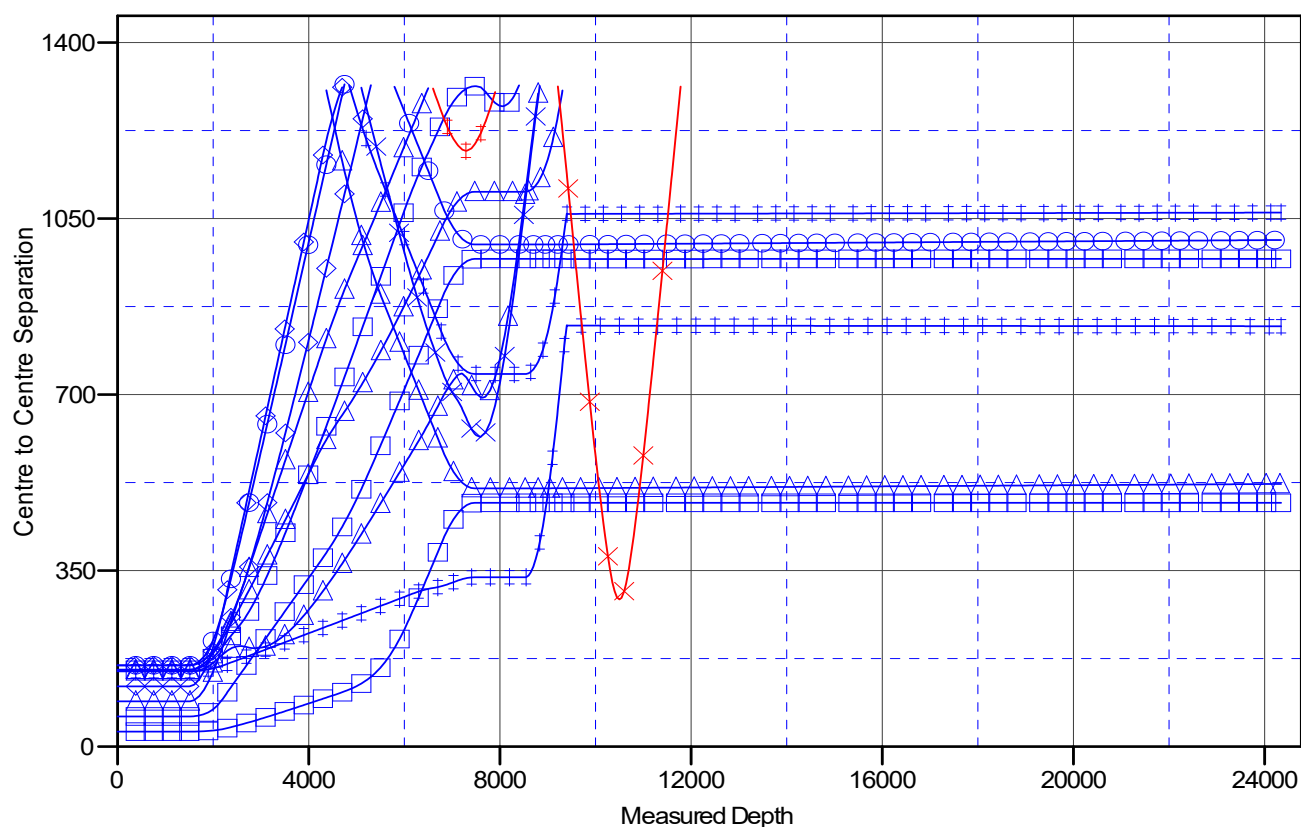
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #705H

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

Grid Convergence at Surface is: 0.08°

Ladder Plot



LEGEND

FLAMING SNAIL FEDERAL COM #501H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #703H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #803H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #502H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #804H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #503H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #706H, OWB, PWP1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #520H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #707H, OWB, PWP1 V0	WHITE CITY 21 25 27 FEDERAL COM #6H, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #701H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #801H, OWB, PWP1 V0	
FLAMING SNAIL FEDERAL COM #702H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #802H, OWB, PWP1 V0	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *RKB 32ft + GL 3129.2ft @ 3161.2usf

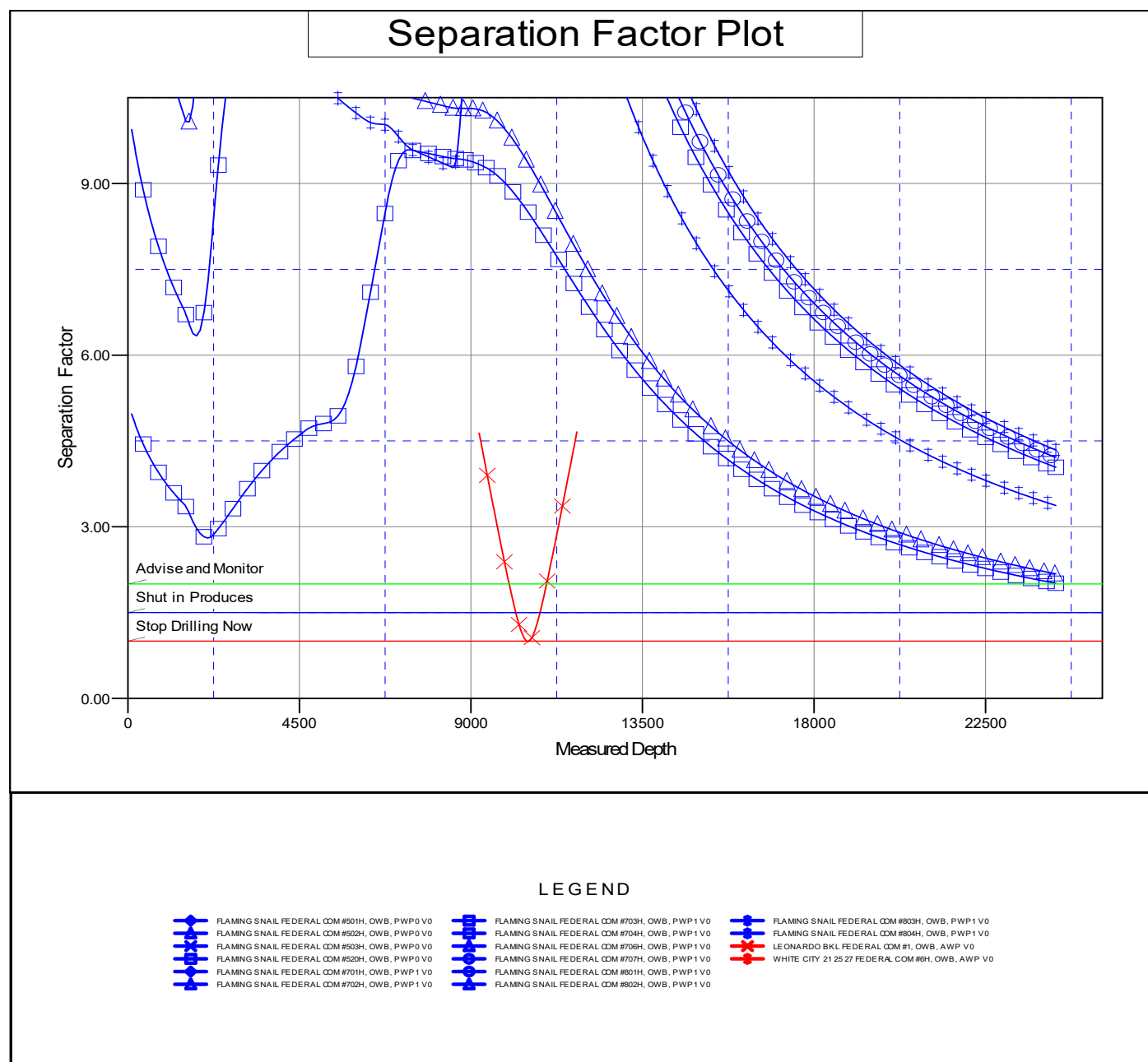
Offset Depths are relative to Offset Datum

Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #705H

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

Grid Convergence at Surface is: 0.08°



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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #705H

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 #705H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #705H	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 #705H		
Well Position	+N/-S	-548.5 usft	Northing: 402,473.20 usft
	+E/-W	4,282.9 usft	Easting: 544,594.80 usft
Position Uncertainty		3.0 usft	Wellhead Elevation:
			Ground Level: 3,129.2 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,317.39179279

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	185.15

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	8,529.8 PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	8,529.8	24,344.7 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 #705H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,200.1	14.00	283.74	2,193.1	20.2	-82.7	2.00	2.00	0.00	283.74	
6,772.7	14.00	283.74	6,629.9	283.0	-1,157.3	0.00	0.00	0.00	0.00	
7,472.7	0.00	0.00	7,323.0	303.2	-1,240.0	2.00	-2.00	0.00	180.00	
8,529.8	0.00	0.00	8,380.0	303.2	-1,240.0	0.00	0.00	0.00	0.00	
9,429.3	89.95	180.47	8,953.0	-269.3	-1,244.7	10.00	10.00	-19.96	180.47	
24,214.6	89.95	180.47	8,964.9	-15,054.0	-1,367.1	0.00	0.00	0.00	0.00	LTP (FLAMING SNAI
24,344.7	89.95	180.47	8,965.0	-15,184.1	-1,368.2	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 #705H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #705H	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	283.74	1,600.0	0.4	-1.7	-0.3	2.00	2.00	0.00
1,700.0	4.00	283.74	1,699.8	1.7	-6.8	-1.0	2.00	2.00	0.00
1,800.0	6.00	283.74	1,799.5	3.7	-15.2	-2.3	2.00	2.00	0.00
1,900.0	8.00	283.74	1,898.7	6.6	-27.1	-4.2	2.00	2.00	0.00
2,000.0	10.00	283.74	1,997.5	10.3	-42.3	-6.5	2.00	2.00	0.00
2,100.0	12.00	283.74	2,095.6	14.9	-60.8	-9.4	2.00	2.00	0.00
2,200.1	14.00	283.74	2,193.1	20.2	-82.7	-12.7	2.00	2.00	0.00
Start 4572.6 hold at 2200.1 MD									
2,300.0	14.00	283.74	2,290.1	26.0	-106.2	-16.3	0.00	0.00	0.00
2,400.0	14.00	283.74	2,387.1	31.7	-129.7	-19.9	0.00	0.00	0.00
2,500.0	14.00	283.74	2,484.1	37.5	-153.2	-23.6	0.00	0.00	0.00
2,600.0	14.00	283.74	2,581.2	43.2	-176.7	-27.2	0.00	0.00	0.00
2,700.0	14.00	283.74	2,678.2	48.9	-200.2	-30.8	0.00	0.00	0.00
2,800.0	14.00	283.74	2,775.2	54.7	-223.7	-34.4	0.00	0.00	0.00
2,900.0	14.00	283.74	2,872.3	60.4	-247.2	-38.0	0.00	0.00	0.00
3,000.0	14.00	283.74	2,969.3	66.2	-270.7	-41.6	0.00	0.00	0.00
3,100.0	14.00	283.74	3,066.3	71.9	-294.2	-45.2	0.00	0.00	0.00
3,200.0	14.00	283.74	3,163.3	77.7	-317.7	-48.9	0.00	0.00	0.00
3,300.0	14.00	283.74	3,260.4	83.4	-341.2	-52.5	0.00	0.00	0.00
3,400.0	14.00	283.74	3,357.4	89.2	-364.7	-56.1	0.00	0.00	0.00
3,500.0	14.00	283.74	3,454.4	94.9	-388.2	-59.7	0.00	0.00	0.00
3,600.0	14.00	283.74	3,551.5	100.7	-411.7	-63.3	0.00	0.00	0.00
3,700.0	14.00	283.74	3,648.5	106.4	-435.2	-66.9	0.00	0.00	0.00
3,800.0	14.00	283.74	3,745.5	112.2	-458.7	-70.5	0.00	0.00	0.00
3,900.0	14.00	283.74	3,842.5	117.9	-482.2	-74.2	0.00	0.00	0.00
4,000.0	14.00	283.74	3,939.6	123.7	-505.7	-77.8	0.00	0.00	0.00
4,100.0	14.00	283.74	4,036.6	129.4	-529.2	-81.4	0.00	0.00	0.00
4,200.0	14.00	283.74	4,133.6	135.1	-552.7	-85.0	0.00	0.00	0.00
4,300.0	14.00	283.74	4,230.7	140.9	-576.2	-88.6	0.00	0.00	0.00
4,400.0	14.00	283.74	4,327.7	146.6	-599.7	-92.2	0.00	0.00	0.00
4,500.0	14.00	283.74	4,424.7	152.4	-623.2	-95.8	0.00	0.00	0.00
4,600.0	14.00	283.74	4,521.8	158.1	-646.7	-99.5	0.00	0.00	0.00
4,700.0	14.00	283.74	4,618.8	163.9	-670.2	-103.1	0.00	0.00	0.00
4,800.0	14.00	283.74	4,715.8	169.6	-693.7	-106.7	0.00	0.00	0.00
4,900.0	14.00	283.74	4,812.8	175.4	-717.2	-110.3	0.00	0.00	0.00
5,000.0	14.00	283.74	4,909.9	181.1	-740.7	-113.9	0.00	0.00	0.00
5,100.0	14.00	283.74	5,006.9	186.9	-764.2	-117.5	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #705H	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	283.74	5,103.9	192.6	-787.7	-121.1	0.00	0.00	0.00
5,300.0	14.00	283.74	5,201.0	198.4	-811.2	-124.8	0.00	0.00	0.00
5,400.0	14.00	283.74	5,298.0	204.1	-834.7	-128.4	0.00	0.00	0.00
5,500.0	14.00	283.74	5,395.0	209.8	-858.2	-132.0	0.00	0.00	0.00
5,600.0	14.00	283.74	5,492.0	215.6	-881.7	-135.6	0.00	0.00	0.00
5,700.0	14.00	283.74	5,589.1	221.3	-905.2	-139.2	0.00	0.00	0.00
5,800.0	14.00	283.74	5,686.1	227.1	-928.7	-142.8	0.00	0.00	0.00
5,900.0	14.00	283.74	5,783.1	232.8	-952.2	-146.4	0.00	0.00	0.00
6,000.0	14.00	283.74	5,880.2	238.6	-975.7	-150.1	0.00	0.00	0.00
6,100.0	14.00	283.74	5,977.2	244.3	-999.2	-153.7	0.00	0.00	0.00
6,200.0	14.00	283.74	6,074.2	250.1	-1,022.7	-157.3	0.00	0.00	0.00
6,300.0	14.00	283.74	6,171.2	255.8	-1,046.2	-160.9	0.00	0.00	0.00
6,400.0	14.00	283.74	6,268.3	261.6	-1,069.7	-164.5	0.00	0.00	0.00
6,500.0	14.00	283.74	6,365.3	267.3	-1,093.2	-168.1	0.00	0.00	0.00
6,600.0	14.00	283.74	6,462.3	273.1	-1,116.7	-171.7	0.00	0.00	0.00
6,700.0	14.00	283.74	6,559.4	278.8	-1,140.2	-175.4	0.00	0.00	0.00
6,772.7	14.00	283.74	6,629.9	283.0	-1,157.3	-178.0	0.00	0.00	0.00
Start Drop -2.00									
6,800.0	13.45	283.74	6,656.4	284.5	-1,163.6	-178.9	2.00	-2.00	0.00
6,900.0	11.45	283.74	6,754.1	289.6	-1,184.6	-182.2	2.00	-2.00	0.00
7,000.0	9.45	283.74	6,852.4	294.0	-1,202.2	-184.9	2.00	-2.00	0.00
7,100.0	7.45	283.74	6,951.3	297.4	-1,216.5	-187.1	2.00	-2.00	0.00
7,200.0	5.45	283.74	7,050.7	300.1	-1,227.4	-188.8	2.00	-2.00	0.00
7,300.0	3.45	283.74	7,150.4	302.0	-1,234.9	-189.9	2.00	-2.00	0.00
7,400.0	1.45	283.74	7,250.3	303.0	-1,239.1	-190.6	2.00	-2.00	0.00
7,472.7	0.00	0.00	7,323.0	303.2	-1,240.0	-190.7	2.00	-2.00	0.00
Start 1057.0 hold at 7472.7 MD									
7,500.0	0.00	0.00	7,350.3	303.2	-1,240.0	-190.7	0.00	0.00	0.00
7,600.0	0.00	0.00	7,450.3	303.2	-1,240.0	-190.7	0.00	0.00	0.00
7,700.0	0.00	0.00	7,550.3	303.2	-1,240.0	-190.7	0.00	0.00	0.00
7,800.0	0.00	0.00	7,650.3	303.2	-1,240.0	-190.7	0.00	0.00	0.00
7,900.0	0.00	0.00	7,750.3	303.2	-1,240.0	-190.7	0.00	0.00	0.00
8,000.0	0.00	0.00	7,850.3	303.2	-1,240.0	-190.7	0.00	0.00	0.00
8,100.0	0.00	0.00	7,950.3	303.2	-1,240.0	-190.7	0.00	0.00	0.00
8,200.0	0.00	0.00	8,050.3	303.2	-1,240.0	-190.7	0.00	0.00	0.00
8,300.0	0.00	0.00	8,150.3	303.2	-1,240.0	-190.7	0.00	0.00	0.00
8,400.0	0.00	0.00	8,250.3	303.2	-1,240.0	-190.7	0.00	0.00	0.00
8,500.0	0.00	0.00	8,350.3	303.2	-1,240.0	-190.7	0.00	0.00	0.00
8,529.8	0.00	0.00	8,380.0	303.2	-1,240.0	-190.7	0.00	0.00	0.00
Start DLS 10.00 TFO 180.47									
8,550.0	2.02	180.47	8,400.3	302.8	-1,240.0	-190.3	10.00	10.00	0.00
8,600.0	7.02	180.47	8,450.1	298.9	-1,240.0	-186.4	10.00	10.00	0.00
8,650.0	12.02	180.47	8,499.4	290.6	-1,240.1	-178.2	10.00	10.00	0.00
8,700.0	17.02	180.47	8,547.8	278.1	-1,240.2	-165.7	10.00	10.00	0.00
8,750.0	22.02	180.47	8,594.9	261.4	-1,240.3	-149.0	10.00	10.00	0.00
8,800.0	27.02	180.47	8,640.4	240.7	-1,240.5	-128.4	10.00	10.00	0.00
8,850.0	32.02	180.47	8,683.8	216.0	-1,240.7	-103.8	10.00	10.00	0.00
8,900.0	37.02	180.47	8,725.0	187.7	-1,241.0	-75.6	10.00	10.00	0.00
8,950.0	42.02	180.47	8,763.6	155.9	-1,241.2	-43.9	10.00	10.00	0.00
9,000.0	47.02	180.47	8,799.2	120.8	-1,241.5	-8.9	10.00	10.00	0.00
9,050.0	52.02	180.47	8,831.7	82.8	-1,241.8	29.0	10.00	10.00	0.00
9,100.0	57.02	180.47	8,860.7	42.1	-1,242.2	69.5	10.00	10.00	0.00
9,150.0	62.02	180.47	8,886.0	-1.0	-1,242.5	112.5	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,200.0	67.02	180.47	8,907.5	-46.1	-1,242.9	157.4	10.00	10.00	0.00
9,250.0	72.02	180.47	8,925.0	-92.9	-1,243.3	204.1	10.00	10.00	0.00
9,300.0	77.02	180.47	8,938.4	-141.1	-1,243.7	252.1	10.00	10.00	0.00
9,350.0	82.02	180.47	8,947.5	-190.2	-1,244.1	301.1	10.00	10.00	0.00
9,400.0	87.02	180.47	8,952.2	-240.0	-1,244.5	350.7	10.00	10.00	0.00
9,429.3	89.95	180.47	8,953.0	-269.3	-1,244.7	379.9	10.00	10.00	0.00
Start 14785.2 hold at 9429.3 MD									
9,500.0	89.95	180.47	8,953.1	-340.0	-1,245.3	450.3	0.00	0.00	0.00
9,600.0	89.95	180.47	8,953.1	-439.9	-1,246.2	550.0	0.00	0.00	0.00
9,700.0	89.95	180.47	8,953.2	-539.9	-1,247.0	649.7	0.00	0.00	0.00
9,800.0	89.95	180.47	8,953.3	-639.9	-1,247.8	749.3	0.00	0.00	0.00
9,900.0	89.95	180.47	8,953.4	-739.9	-1,248.6	849.0	0.00	0.00	0.00
10,000.0	89.95	180.47	8,953.5	-839.9	-1,249.5	948.7	0.00	0.00	0.00
10,100.0	89.95	180.47	8,953.5	-939.9	-1,250.3	1,048.3	0.00	0.00	0.00
10,200.0	89.95	180.47	8,953.6	-1,039.9	-1,251.1	1,148.0	0.00	0.00	0.00
10,300.0	89.95	180.47	8,953.7	-1,139.9	-1,251.9	1,247.7	0.00	0.00	0.00
10,400.0	89.95	180.47	8,953.8	-1,239.9	-1,252.8	1,347.3	0.00	0.00	0.00
10,500.0	89.95	180.47	8,953.9	-1,339.9	-1,253.6	1,447.0	0.00	0.00	0.00
10,600.0	89.95	180.47	8,953.9	-1,439.9	-1,254.4	1,546.7	0.00	0.00	0.00
10,700.0	89.95	180.47	8,954.0	-1,539.9	-1,255.3	1,646.3	0.00	0.00	0.00
10,800.0	89.95	180.47	8,954.1	-1,639.9	-1,256.1	1,746.0	0.00	0.00	0.00
10,900.0	89.95	180.47	8,954.2	-1,739.9	-1,256.9	1,845.7	0.00	0.00	0.00
11,000.0	89.95	180.47	8,954.3	-1,839.9	-1,257.7	1,945.3	0.00	0.00	0.00
11,100.0	89.95	180.47	8,954.3	-1,939.9	-1,258.6	2,045.0	0.00	0.00	0.00
11,200.0	89.95	180.47	8,954.4	-2,039.9	-1,259.4	2,144.7	0.00	0.00	0.00
11,300.0	89.95	180.47	8,954.5	-2,139.9	-1,260.2	2,244.4	0.00	0.00	0.00
11,400.0	89.95	180.47	8,954.6	-2,239.9	-1,261.0	2,344.0	0.00	0.00	0.00
11,500.0	89.95	180.47	8,954.7	-2,339.9	-1,261.9	2,443.7	0.00	0.00	0.00
11,600.0	89.95	180.47	8,954.7	-2,439.9	-1,262.7	2,543.4	0.00	0.00	0.00
11,700.0	89.95	180.47	8,954.8	-2,539.9	-1,263.5	2,643.0	0.00	0.00	0.00
11,800.0	89.95	180.47	8,954.9	-2,639.9	-1,264.4	2,742.7	0.00	0.00	0.00
11,900.0	89.95	180.47	8,955.0	-2,739.9	-1,265.2	2,842.4	0.00	0.00	0.00
12,000.0	89.95	180.47	8,955.1	-2,839.9	-1,266.0	2,942.0	0.00	0.00	0.00
12,100.0	89.95	180.47	8,955.1	-2,939.9	-1,266.8	3,041.7	0.00	0.00	0.00
12,200.0	89.95	180.47	8,955.2	-3,039.9	-1,267.7	3,141.4	0.00	0.00	0.00
12,300.0	89.95	180.47	8,955.3	-3,139.9	-1,268.5	3,241.0	0.00	0.00	0.00
12,400.0	89.95	180.47	8,955.4	-3,239.9	-1,269.3	3,340.7	0.00	0.00	0.00
12,500.0	89.95	180.47	8,955.5	-3,339.8	-1,270.2	3,440.4	0.00	0.00	0.00
12,600.0	89.95	180.47	8,955.6	-3,439.8	-1,271.0	3,540.0	0.00	0.00	0.00
12,700.0	89.95	180.47	8,955.6	-3,539.8	-1,271.8	3,639.7	0.00	0.00	0.00
12,800.0	89.95	180.47	8,955.7	-3,639.8	-1,272.6	3,739.4	0.00	0.00	0.00
12,900.0	89.95	180.47	8,955.8	-3,739.8	-1,273.5	3,839.0	0.00	0.00	0.00
13,000.0	89.95	180.47	8,955.9	-3,839.8	-1,274.3	3,938.7	0.00	0.00	0.00
13,100.0	89.95	180.47	8,956.0	-3,939.8	-1,275.1	4,038.4	0.00	0.00	0.00
13,200.0	89.95	180.47	8,956.0	-4,039.8	-1,275.9	4,138.0	0.00	0.00	0.00
13,300.0	89.95	180.47	8,956.1	-4,139.8	-1,276.8	4,237.7	0.00	0.00	0.00
13,400.0	89.95	180.47	8,956.2	-4,239.8	-1,277.6	4,337.4	0.00	0.00	0.00
13,500.0	89.95	180.47	8,956.3	-4,339.8	-1,278.4	4,437.0	0.00	0.00	0.00
13,600.0	89.95	180.47	8,956.4	-4,439.8	-1,279.3	4,536.7	0.00	0.00	0.00
13,700.0	89.95	180.47	8,956.4	-4,539.8	-1,280.1	4,636.4	0.00	0.00	0.00
13,800.0	89.95	180.47	8,956.5	-4,639.8	-1,280.9	4,736.0	0.00	0.00	0.00
13,900.0	89.95	180.47	8,956.6	-4,739.8	-1,281.7	4,835.7	0.00	0.00	0.00
14,000.0	89.95	180.47	8,956.7	-4,839.8	-1,282.6	4,935.4	0.00	0.00	0.00
14,100.0	89.95	180.47	8,956.8	-4,939.8	-1,283.4	5,035.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
14,200.0	89.95	180.47	8,956.8	-5,039.8	-1,284.2	5,134.7	0.00	0.00	0.00
14,300.0	89.95	180.47	8,956.9	-5,139.8	-1,285.0	5,234.4	0.00	0.00	0.00
14,400.0	89.95	180.47	8,957.0	-5,239.8	-1,285.9	5,334.0	0.00	0.00	0.00
14,500.0	89.95	180.47	8,957.1	-5,339.8	-1,286.7	5,433.7	0.00	0.00	0.00
14,600.0	89.95	180.47	8,957.2	-5,439.8	-1,287.5	5,533.4	0.00	0.00	0.00
14,700.0	89.95	180.47	8,957.2	-5,539.8	-1,288.4	5,633.0	0.00	0.00	0.00
14,800.0	89.95	180.47	8,957.3	-5,639.8	-1,289.2	5,732.7	0.00	0.00	0.00
14,900.0	89.95	180.47	8,957.4	-5,739.8	-1,290.0	5,832.4	0.00	0.00	0.00
15,000.0	89.95	180.47	8,957.5	-5,839.8	-1,290.8	5,932.0	0.00	0.00	0.00
15,100.0	89.95	180.47	8,957.6	-5,939.8	-1,291.7	6,031.7	0.00	0.00	0.00
15,200.0	89.95	180.47	8,957.6	-6,039.8	-1,292.5	6,131.4	0.00	0.00	0.00
15,300.0	89.95	180.47	8,957.7	-6,139.8	-1,293.3	6,231.0	0.00	0.00	0.00
15,400.0	89.95	180.47	8,957.8	-6,239.7	-1,294.2	6,330.7	0.00	0.00	0.00
15,500.0	89.95	180.47	8,957.9	-6,339.7	-1,295.0	6,430.4	0.00	0.00	0.00
15,600.0	89.95	180.47	8,958.0	-6,439.7	-1,295.8	6,530.0	0.00	0.00	0.00
15,700.0	89.95	180.47	8,958.0	-6,539.7	-1,296.6	6,629.7	0.00	0.00	0.00
15,800.0	89.95	180.47	8,958.1	-6,639.7	-1,297.5	6,729.4	0.00	0.00	0.00
15,900.0	89.95	180.47	8,958.2	-6,739.7	-1,298.3	6,829.0	0.00	0.00	0.00
16,000.0	89.95	180.47	8,958.3	-6,839.7	-1,299.1	6,928.7	0.00	0.00	0.00
16,100.0	89.95	180.47	8,958.4	-6,939.7	-1,299.9	7,028.4	0.00	0.00	0.00
16,200.0	89.95	180.47	8,958.4	-7,039.7	-1,300.8	7,128.0	0.00	0.00	0.00
16,300.0	89.95	180.47	8,958.5	-7,139.7	-1,301.6	7,227.7	0.00	0.00	0.00
16,400.0	89.95	180.47	8,958.6	-7,239.7	-1,302.4	7,327.4	0.00	0.00	0.00
16,500.0	89.95	180.47	8,958.7	-7,339.7	-1,303.3	7,427.1	0.00	0.00	0.00
16,600.0	89.95	180.47	8,958.8	-7,439.7	-1,304.1	7,526.7	0.00	0.00	0.00
16,700.0	89.95	180.47	8,958.8	-7,539.7	-1,304.9	7,626.4	0.00	0.00	0.00
16,800.0	89.95	180.47	8,958.9	-7,639.7	-1,305.7	7,726.1	0.00	0.00	0.00
16,900.0	89.95	180.47	8,959.0	-7,739.7	-1,306.6	7,825.7	0.00	0.00	0.00
17,000.0	89.95	180.47	8,959.1	-7,839.7	-1,307.4	7,925.4	0.00	0.00	0.00
17,100.0	89.95	180.47	8,959.2	-7,939.7	-1,308.2	8,025.1	0.00	0.00	0.00
17,200.0	89.95	180.47	8,959.3	-8,039.7	-1,309.0	8,124.7	0.00	0.00	0.00
17,300.0	89.95	180.47	8,959.3	-8,139.7	-1,309.9	8,224.4	0.00	0.00	0.00
17,400.0	89.95	180.47	8,959.4	-8,239.7	-1,310.7	8,324.1	0.00	0.00	0.00
17,500.0	89.95	180.47	8,959.5	-8,339.7	-1,311.5	8,423.7	0.00	0.00	0.00
17,600.0	89.95	180.47	8,959.6	-8,439.7	-1,312.4	8,523.4	0.00	0.00	0.00
17,700.0	89.95	180.47	8,959.7	-8,539.7	-1,313.2	8,623.1	0.00	0.00	0.00
17,800.0	89.95	180.47	8,959.7	-8,639.7	-1,314.0	8,722.7	0.00	0.00	0.00
17,900.0	89.95	180.47	8,959.8	-8,739.7	-1,314.8	8,822.4	0.00	0.00	0.00
18,000.0	89.95	180.47	8,959.9	-8,839.7	-1,315.7	8,922.1	0.00	0.00	0.00
18,100.0	89.95	180.47	8,960.0	-8,939.7	-1,316.5	9,021.7	0.00	0.00	0.00
18,200.0	89.95	180.47	8,960.1	-9,039.7	-1,317.3	9,121.4	0.00	0.00	0.00
18,300.0	89.95	180.47	8,960.1	-9,139.6	-1,318.2	9,221.1	0.00	0.00	0.00
18,400.0	89.95	180.47	8,960.2	-9,239.6	-1,319.0	9,320.7	0.00	0.00	0.00
18,500.0	89.95	180.47	8,960.3	-9,339.6	-1,319.8	9,420.4	0.00	0.00	0.00
18,600.0	89.95	180.47	8,960.4	-9,439.6	-1,320.6	9,520.1	0.00	0.00	0.00
18,700.0	89.95	180.47	8,960.5	-9,539.6	-1,321.5	9,619.7	0.00	0.00	0.00
18,800.0	89.95	180.47	8,960.5	-9,639.6	-1,322.3	9,719.4	0.00	0.00	0.00
18,900.0	89.95	180.47	8,960.6	-9,739.6	-1,323.1	9,819.1	0.00	0.00	0.00
19,000.0	89.95	180.47	8,960.7	-9,839.6	-1,323.9	9,918.7	0.00	0.00	0.00
19,100.0	89.95	180.47	8,960.8	-9,939.6	-1,324.8	10,018.4	0.00	0.00	0.00
19,200.0	89.95	180.47	8,960.9	-10,039.6	-1,325.6	10,118.1	0.00	0.00	0.00
19,300.0	89.95	180.47	8,960.9	-10,139.6	-1,326.4	10,217.7	0.00	0.00	0.00
19,400.0	89.95	180.47	8,961.0	-10,239.6	-1,327.3	10,317.4	0.00	0.00	0.00
19,500.0	89.95	180.47	8,961.1	-10,339.6	-1,328.1	10,417.1	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
19,600.0	89.95	180.47	8,961.2	-10,439.6	-1,328.9	10,516.7	0.00	0.00	0.00
19,700.0	89.95	180.47	8,961.3	-10,539.6	-1,329.7	10,616.4	0.00	0.00	0.00
19,800.0	89.95	180.47	8,961.3	-10,639.6	-1,330.6	10,716.1	0.00	0.00	0.00
19,900.0	89.95	180.47	8,961.4	-10,739.6	-1,331.4	10,815.7	0.00	0.00	0.00
20,000.0	89.95	180.47	8,961.5	-10,839.6	-1,332.2	10,915.4	0.00	0.00	0.00
20,100.0	89.95	180.47	8,961.6	-10,939.6	-1,333.0	11,015.1	0.00	0.00	0.00
20,200.0	89.95	180.47	8,961.7	-11,039.6	-1,333.9	11,114.7	0.00	0.00	0.00
20,300.0	89.95	180.47	8,961.7	-11,139.6	-1,334.7	11,214.4	0.00	0.00	0.00
20,400.0	89.95	180.47	8,961.8	-11,239.6	-1,335.5	11,314.1	0.00	0.00	0.00
20,500.0	89.95	180.47	8,961.9	-11,339.6	-1,336.4	11,413.7	0.00	0.00	0.00
20,600.0	89.95	180.47	8,962.0	-11,439.6	-1,337.2	11,513.4	0.00	0.00	0.00
20,700.0	89.95	180.47	8,962.1	-11,539.6	-1,338.0	11,613.1	0.00	0.00	0.00
20,800.0	89.95	180.47	8,962.1	-11,639.6	-1,338.8	11,712.7	0.00	0.00	0.00
20,900.0	89.95	180.47	8,962.2	-11,739.6	-1,339.7	11,812.4	0.00	0.00	0.00
21,000.0	89.95	180.47	8,962.3	-11,839.6	-1,340.5	11,912.1	0.00	0.00	0.00
21,100.0	89.95	180.47	8,962.4	-11,939.6	-1,341.3	12,011.7	0.00	0.00	0.00
21,200.0	89.95	180.47	8,962.5	-12,039.5	-1,342.2	12,111.4	0.00	0.00	0.00
21,300.0	89.95	180.47	8,962.5	-12,139.5	-1,343.0	12,211.1	0.00	0.00	0.00
21,400.0	89.95	180.47	8,962.6	-12,239.5	-1,343.8	12,310.8	0.00	0.00	0.00
21,500.0	89.95	180.47	8,962.7	-12,339.5	-1,344.6	12,410.4	0.00	0.00	0.00
21,600.0	89.95	180.47	8,962.8	-12,439.5	-1,345.5	12,510.1	0.00	0.00	0.00
21,700.0	89.95	180.47	8,962.9	-12,539.5	-1,346.3	12,609.8	0.00	0.00	0.00
21,800.0	89.95	180.47	8,963.0	-12,639.5	-1,347.1	12,709.4	0.00	0.00	0.00
21,900.0	89.95	180.47	8,963.0	-12,739.5	-1,347.9	12,809.1	0.00	0.00	0.00
22,000.0	89.95	180.47	8,963.1	-12,839.5	-1,348.8	12,908.8	0.00	0.00	0.00
22,100.0	89.95	180.47	8,963.2	-12,939.5	-1,349.6	13,008.4	0.00	0.00	0.00
22,200.0	89.95	180.47	8,963.3	-13,039.5	-1,350.4	13,108.1	0.00	0.00	0.00
22,300.0	89.95	180.47	8,963.4	-13,139.5	-1,351.3	13,207.8	0.00	0.00	0.00
22,400.0	89.95	180.47	8,963.4	-13,239.5	-1,352.1	13,307.4	0.00	0.00	0.00
22,500.0	89.95	180.47	8,963.5	-13,339.5	-1,352.9	13,407.1	0.00	0.00	0.00
22,600.0	89.95	180.47	8,963.6	-13,439.5	-1,353.7	13,506.8	0.00	0.00	0.00
22,700.0	89.95	180.47	8,963.7	-13,539.5	-1,354.6	13,606.4	0.00	0.00	0.00
22,800.0	89.95	180.47	8,963.8	-13,639.5	-1,355.4	13,706.1	0.00	0.00	0.00
22,900.0	89.95	180.47	8,963.8	-13,739.5	-1,356.2	13,805.8	0.00	0.00	0.00
23,000.0	89.95	180.47	8,963.9	-13,839.5	-1,357.0	13,905.4	0.00	0.00	0.00
23,100.0	89.95	180.47	8,964.0	-13,939.5	-1,357.9	14,005.1	0.00	0.00	0.00
23,200.0	89.95	180.47	8,964.1	-14,039.5	-1,358.7	14,104.8	0.00	0.00	0.00
23,300.0	89.95	180.47	8,964.2	-14,139.5	-1,359.5	14,204.4	0.00	0.00	0.00
23,400.0	89.95	180.47	8,964.2	-14,239.5	-1,360.4	14,304.1	0.00	0.00	0.00
23,500.0	89.95	180.47	8,964.3	-14,339.5	-1,361.2	14,403.8	0.00	0.00	0.00
23,600.0	89.95	180.47	8,964.4	-14,439.5	-1,362.0	14,503.4	0.00	0.00	0.00
23,700.0	89.95	180.47	8,964.5	-14,539.5	-1,362.8	14,603.1	0.00	0.00	0.00
23,800.0	89.95	180.47	8,964.6	-14,639.5	-1,363.7	14,702.8	0.00	0.00	0.00
23,900.0	89.95	180.47	8,964.6	-14,739.5	-1,364.5	14,802.4	0.00	0.00	0.00
24,000.0	89.95	180.47	8,964.7	-14,839.4	-1,365.3	14,902.1	0.00	0.00	0.00
24,100.0	89.95	180.47	8,964.8	-14,939.4	-1,366.2	15,001.8	0.00	0.00	0.00
24,200.0	89.95	180.47	8,964.9	-15,039.4	-1,367.0	15,101.4	0.00	0.00	0.00
24,214.6	89.95	180.47	8,964.9	-15,054.0	-1,367.1	15,115.9	0.00	0.00	0.00
Start 130.1 hold at 24214.6 MD									
24,300.0	89.95	180.47	8,965.0	-15,139.4	-1,367.8	15,201.1	0.00	0.00	0.00
24,344.7	89.95	180.47	8,965.0	-15,184.1	-1,368.2	15,245.6	0.00	0.00	0.00
TD at 24344.7									

ConocoPhillips

Planning Report

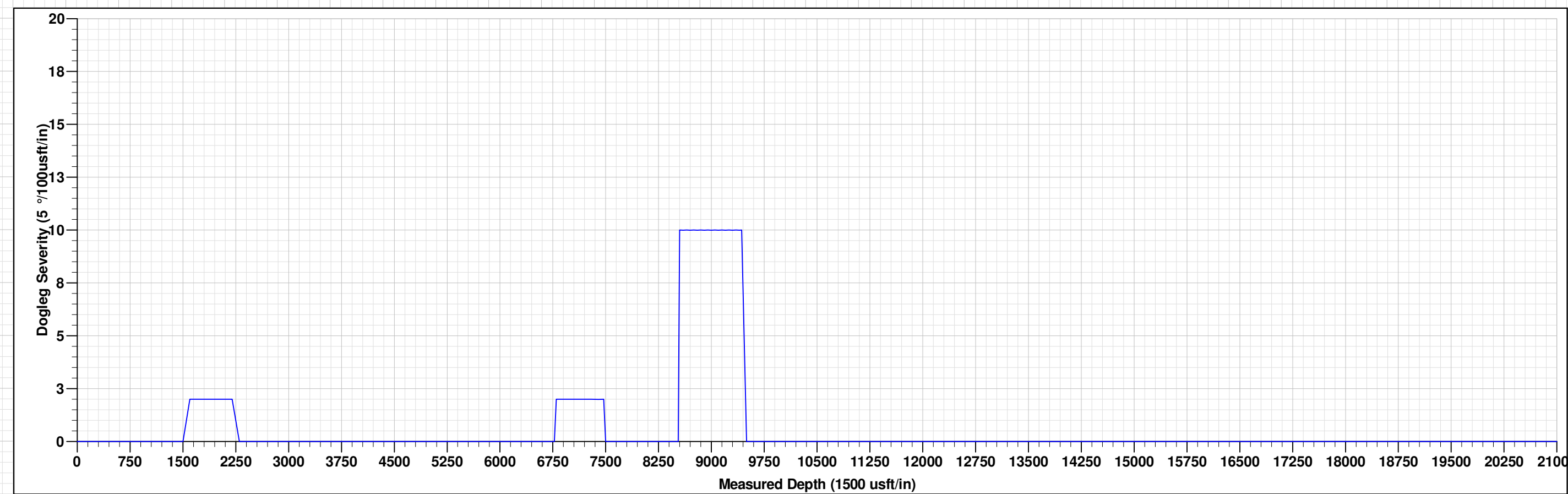
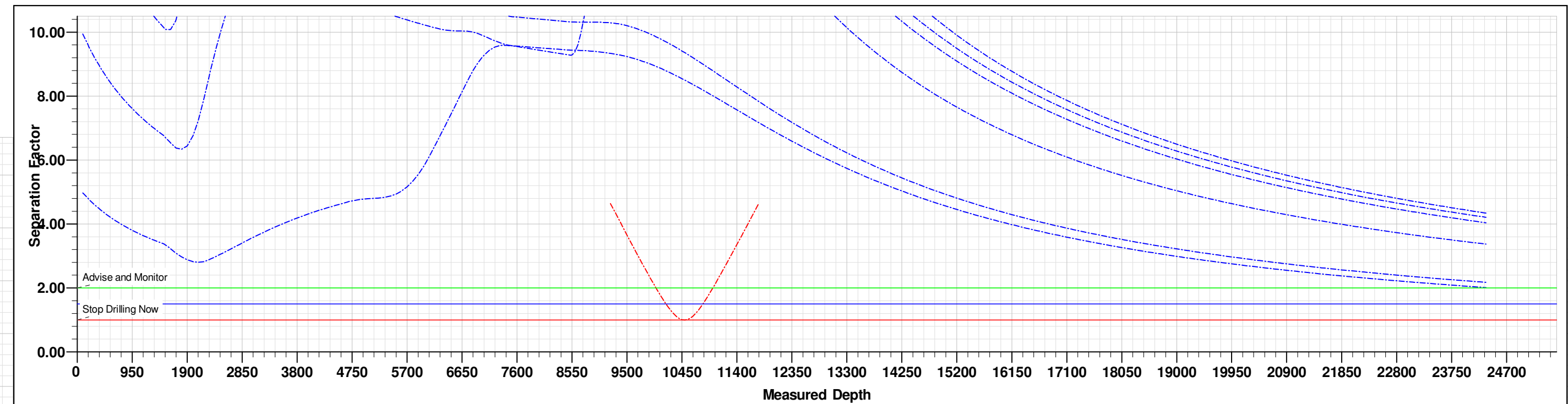
Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #705H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.2ft @ 3161.2usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #705H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Design Targets									
Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
FTP (FLAMING SNAIL F - plan misses target center by 237.3usft at 8981.8usft MD (8786.6 TVD, 134.0 N, -1241.4 E) - Circle (radius 50.0)	0.00	0.00	8,953.0	303.2	-1,240.0	402,776.40	543,354.80	32° 6' 26.176 N	104° 11' 35.929 W
LTP (FLAMING SNAIL F - plan hits target center - Point	0.00	0.00	8,964.9	-15,054.0	-1,367.1	387,419.20	543,227.70	32° 3' 54.194 N	104° 11' 37.638 W
PBHL (FLAMING SNAIL - plan hits target center - Rectangle (sides W100.0 H15,487.8 D20.0)	0.05	0.47	8,965.0	-15,184.1	-1,368.2	387,289.10	543,226.60	32° 3' 52.906 N	104° 11' 37.652 W

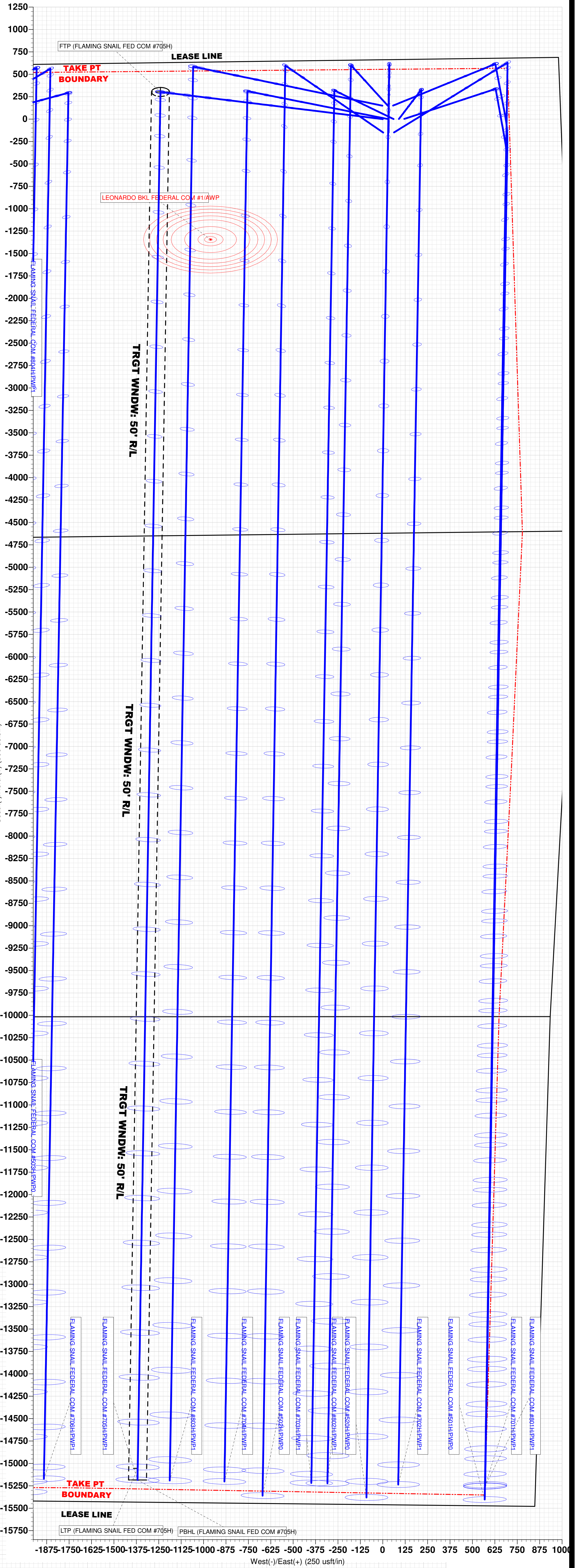
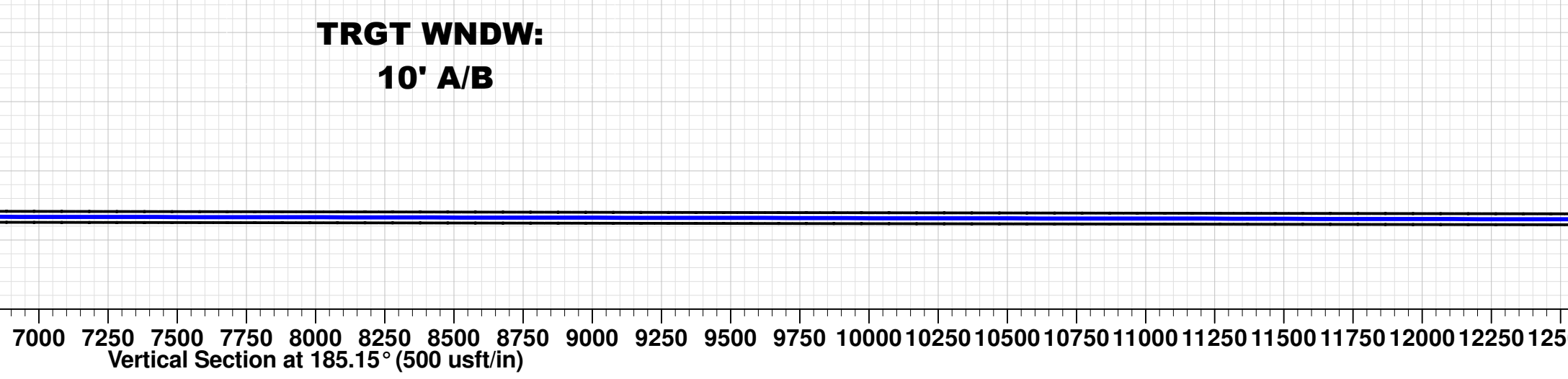
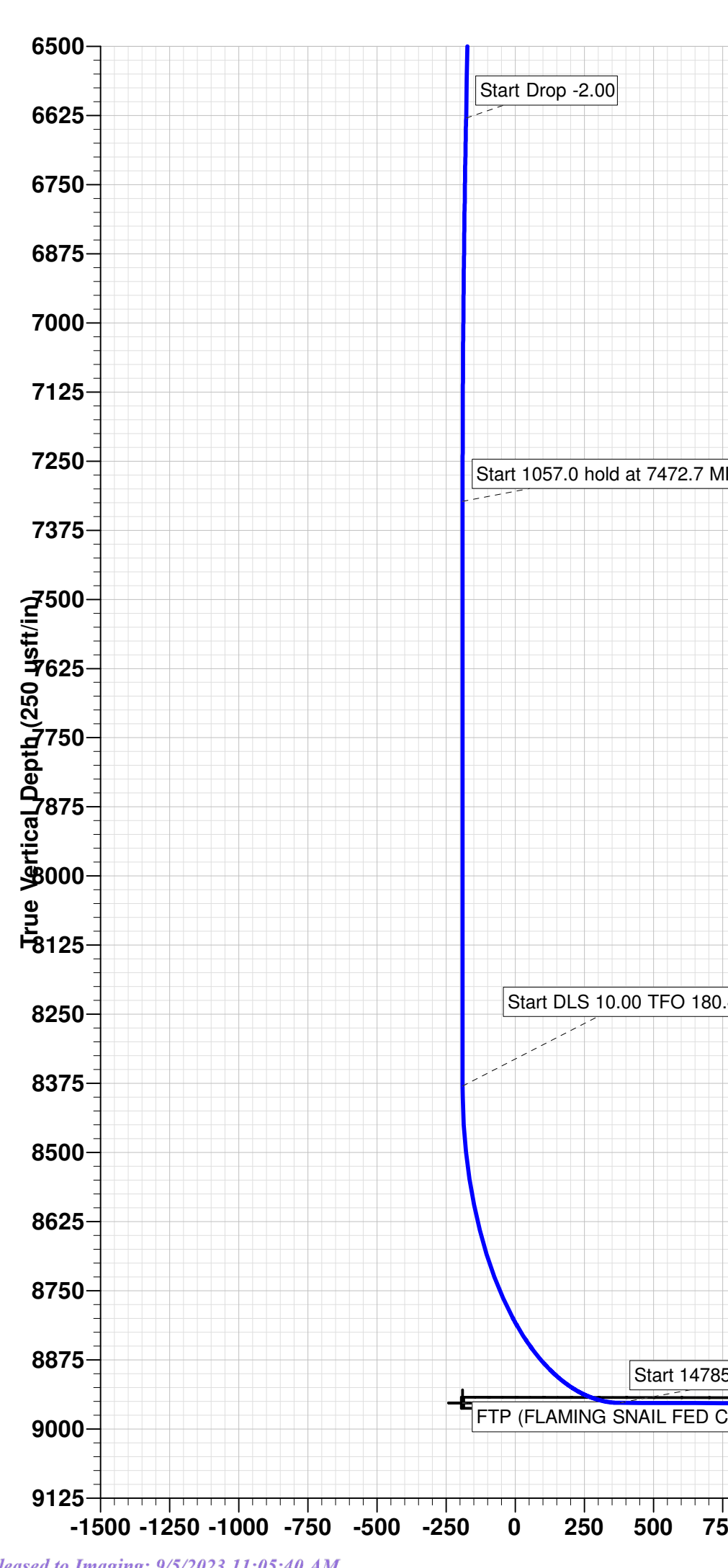
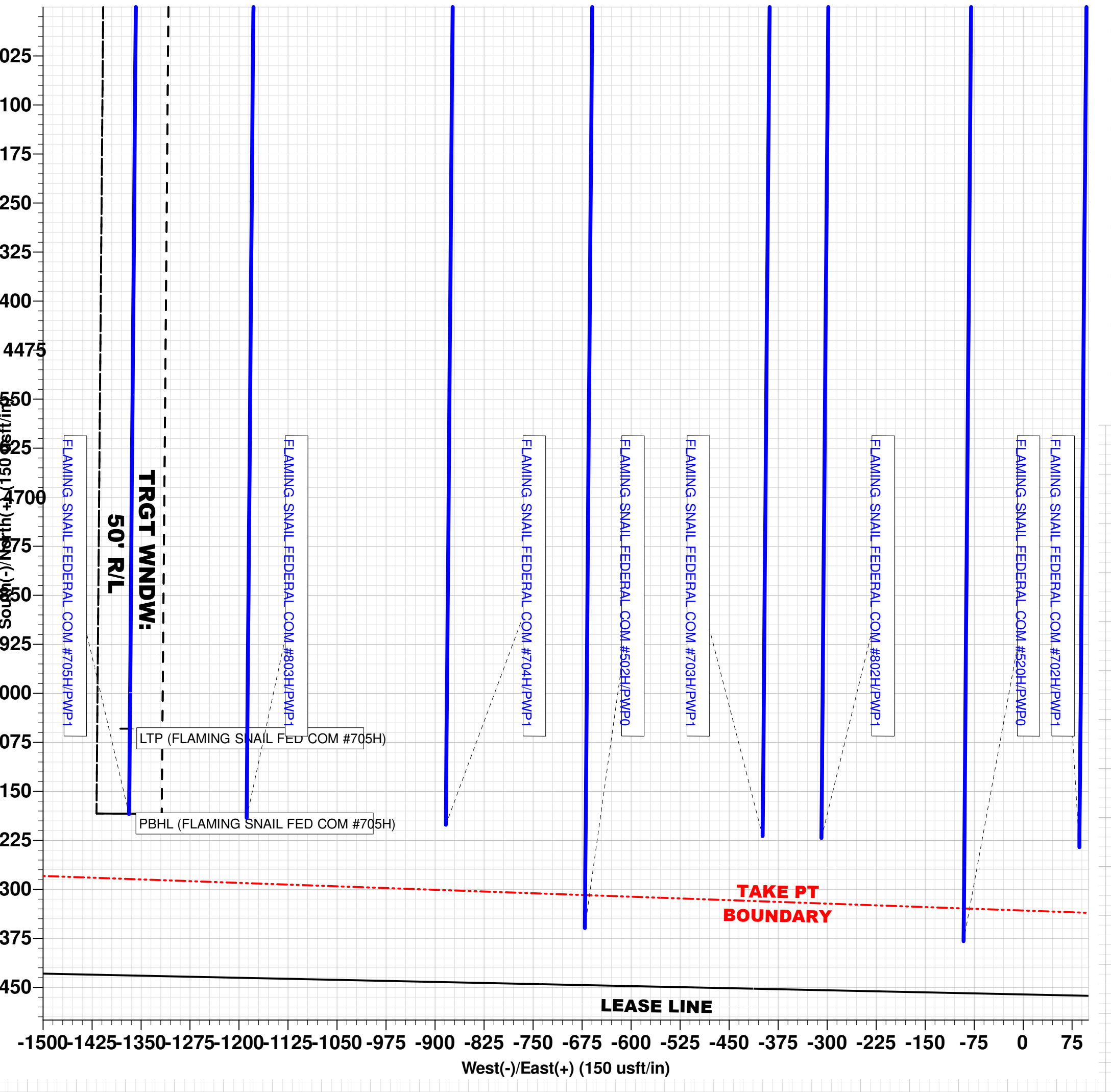
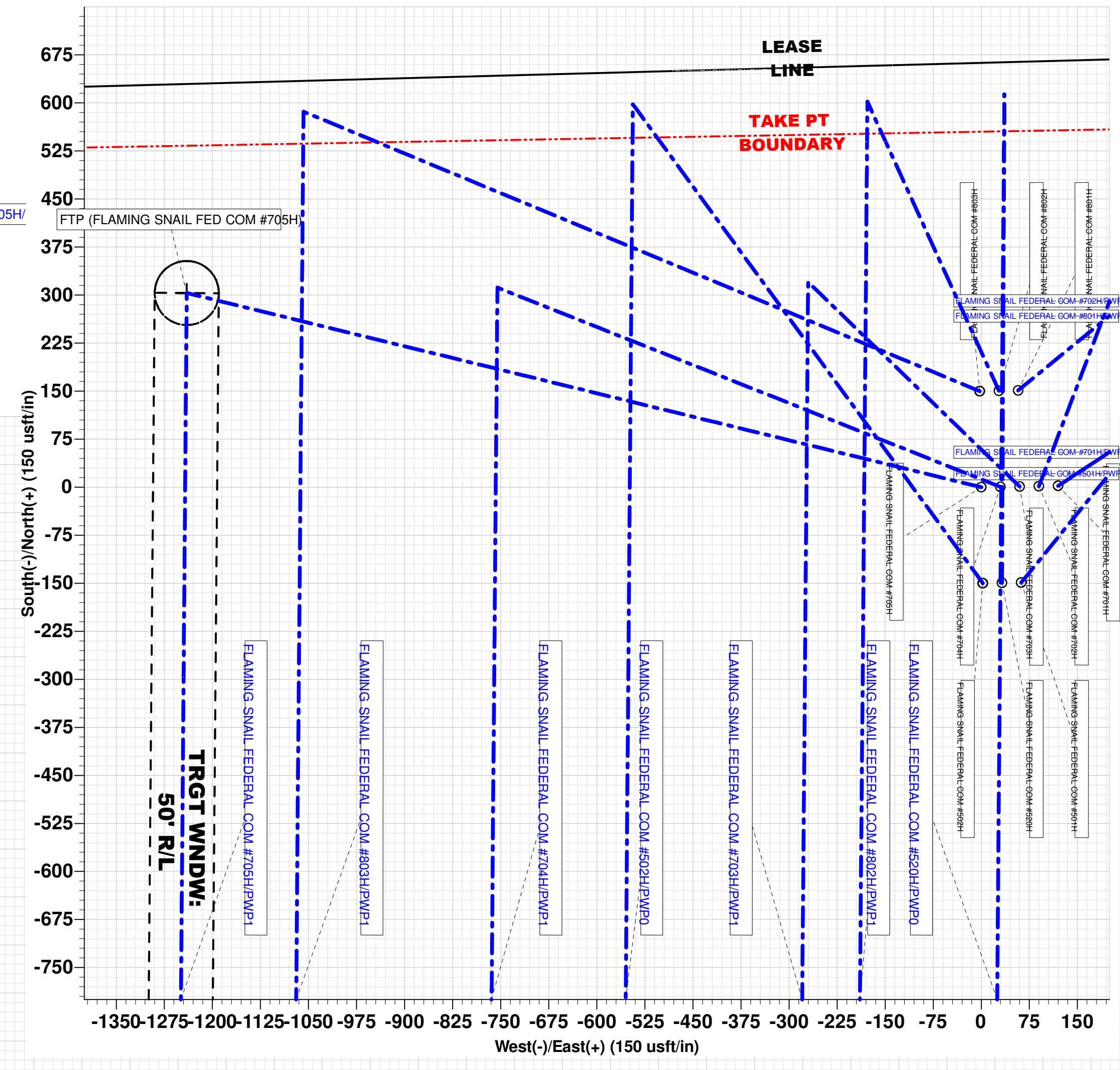
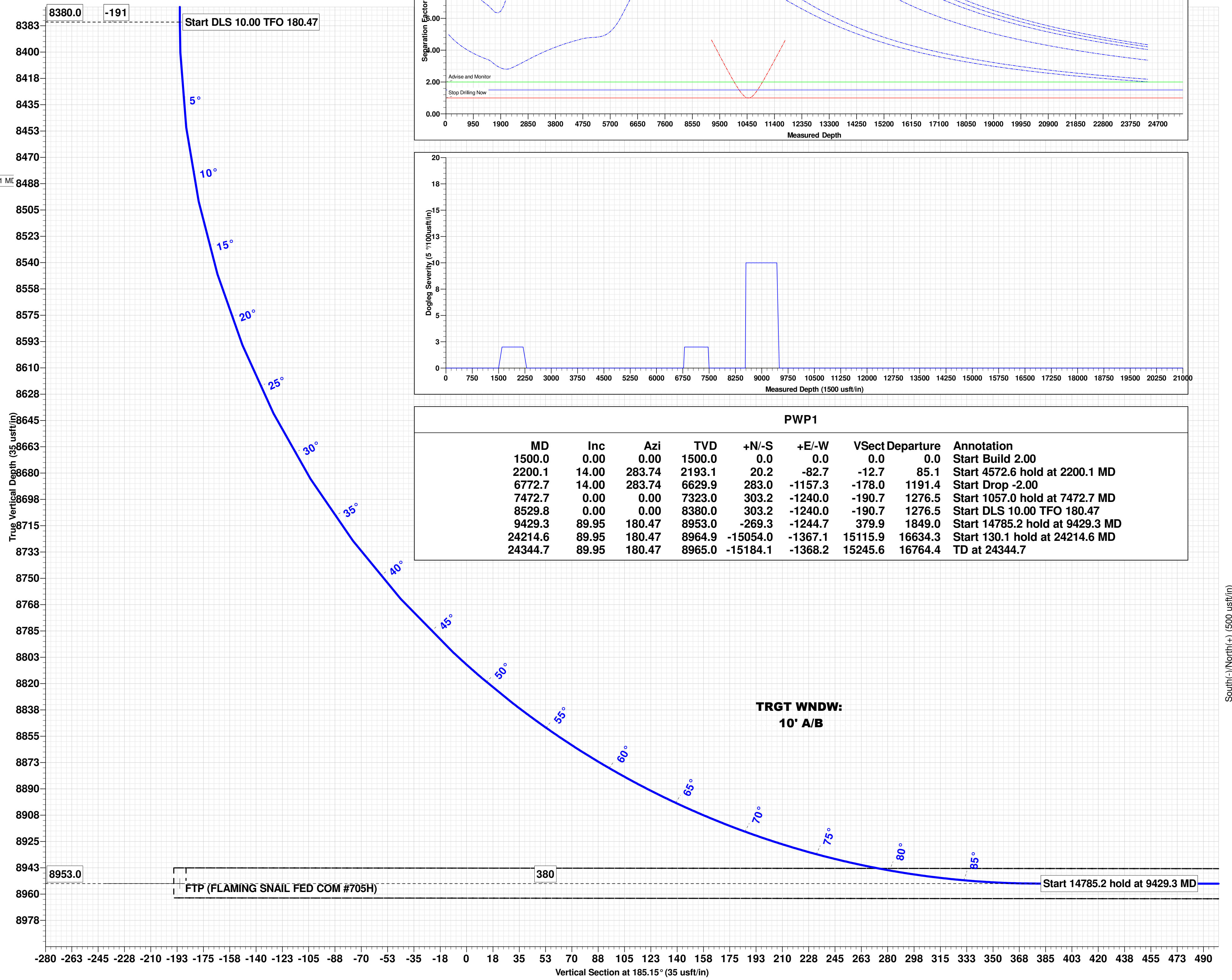
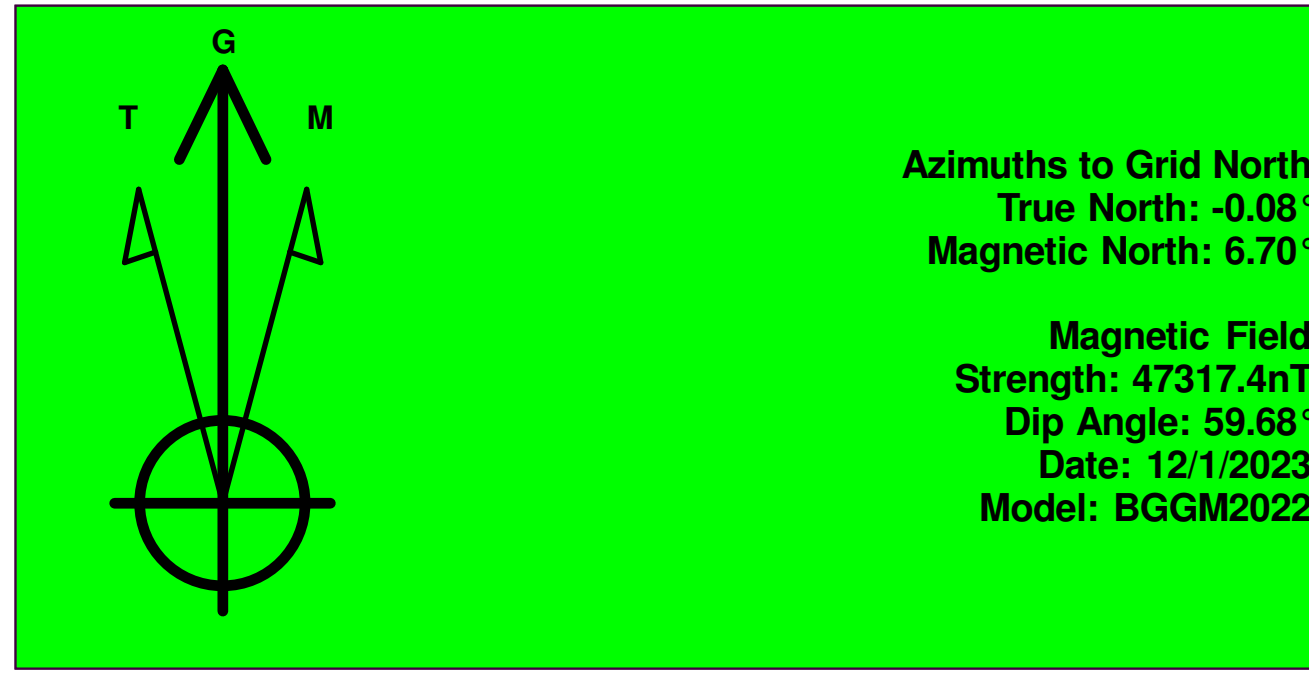
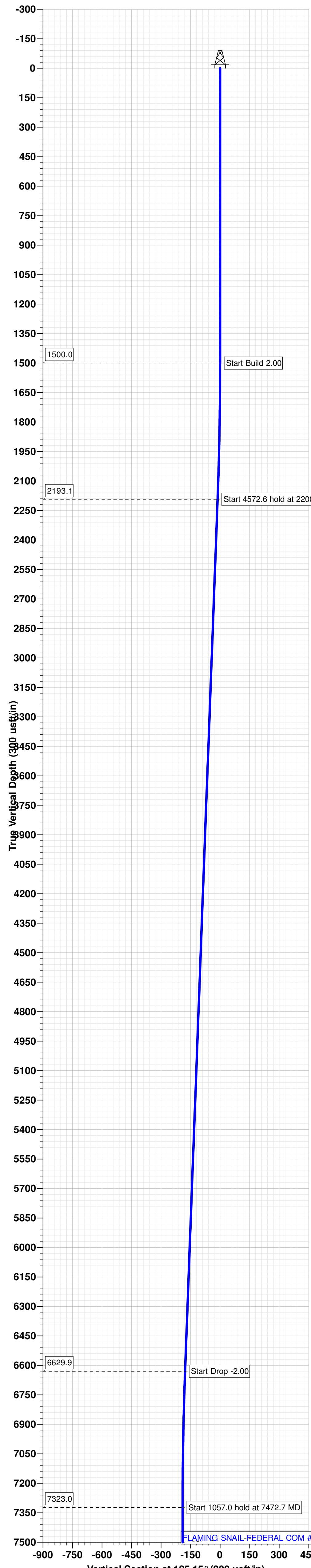
Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
2,200.1	2,193.1	20.2	-82.7	Start 4572.6 hold at 2200.1 MD
6,772.7	6,629.9	283.0	-1,157.3	Start Drop -2.00
7,472.7	7,323.0	303.2	-1,240.0	Start 1057.0 hold at 7472.7 MD
8,529.8	8,380.0	303.2	-1,240.0	Start DLS 10.00 TFO 180.47
9,429.3	8,953.0	-269.3	-1,244.7	Start 14785.2 hold at 9429.3 MD
24,214.6	8,964.9	-15,054.0	-1,367.1	Start 130.1 hold at 24214.6 MD
24,344.7	8,965.0	-15,184.1	-1,368.2	TD at 24344.7

WELL DETAILS: FLAMING SNAIL FEDERAL COM #705H					
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402473.20	544594.80	32° 6' 23.159 N	104° 11' 21.516 W

DESIGN TARGET DETAILS					
Name	TVD	+N/-S	+E/-W	Northing	Easting
FTP (FLAMING SNAIL FED COM #705H)	8953.0	303.2	-1240.0	402776.40	543354.80
LTP (FLAMING SNAIL FED COM #705H)	8964.9	-15054.0	-1367.1	387419.20	543227.70
PBHL (FLAMING SNAIL FED COM #705H)	8965.0	-15184.1	-1368.2	387289.10	543226.60



PWP1									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation	
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00	
2200.1	14.00	283.74	2193.1	20.2	-82.7	-12.7	85.1	Start 4572.6 hold at 2200.1 MD	
6772.7	14.00	283.74	6629.9	283.0	-1157.3	-178.0	1191.4	Start Drop -2.00	
7472.7	0.00	0.00	7323.0	303.2	-1240.0	-190.7	1276.5	Start 1057.0 hold at 7472.7 MD	
8529.8	0.00	0.00	8380.0	303.2	-1240.0	-190.7	1276.5	Start DLS 10.00 TFO 180.47	
9429.3	89.95	180.47	8953.0	-269.3	-1244.7	379.9	1849.0	Start 14785.2 hold at 9429.3 MD	
24214.6	89.95	180.47	8964.9	-15054.0	-1367.1	15115.9	16634.3	Start 130.1 hold at 24214.6 MD	
24344.7	89.95	180.47	8965.0	-15184.1	-1368.2	15245.6	16764.4	TD at 24344.7	



PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM92167
LOCATION:	Section 28, T.25 S, R.27 E., NMPM
COUNTY:	Eddy County, New Mexico
WELL NAME & NO.:	Flaming Snail Fed Com 705H
SURFACE HOLE FOOTAGE:	655'/N & 1035'/E
BOTTOM HOLE FOOTAGE:	200'/S & 2270'/E

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

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

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

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

Option 2:

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

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

C. PRESSURE CONTROL

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

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

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

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

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

☒ Lea County

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

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

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

A. CASING

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

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

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

B. PRESSURE CONTROL

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

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

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS 8/2/2023

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

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

EMERGENCY RESPONSE NUMBERS

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

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 260559

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 260559
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Notify OCD 24 hours prior to casing & cement	9/5/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/5/2023
ward.rikala	Once the well is spud, to prevent ground water contamination through whole or partial conduits from the surface, the operator shall drill without interruption through the fresh water zone or zones and shall immediately set in cement the water protection string	9/5/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/5/2023
ward.rikala	Oil base muds are not to be used until fresh water zones are cased and cemented providing isolation from the oil or diesel. This includes synthetic oils. Oil based mud, drilling fluids and solids must be contained in a steel closed loop system	9/5/2023