

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 701H 9. API Well No. 30-015-54150
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 / 915 FEL / LAT 32.10656 / LONG -104.189417 At proposed prod. zone SESE / 200 FSL / 330 FEL / LAT 32.064623 / LONG -104.188026		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. 0 feet 19. Proposed Depth 8998 feet / 24405 feet 20. BLM/BIA Bond No. in file FED: NMB000215		21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3129 feet 22. Approximate date work will start* 06/01/2024 23. Estimated duration 30 days
24. Attachments		

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

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

25. Signature (Electronic Submission) Title Regulatory Advisor	Name (Printed/Typed) STAN WAGNER / Ph: (432) 683-7443	Date 10/07/2022
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 Office Carlsbad Field Office	Date 08/25/2023

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 08/25/2023

Additional Operator Remarks

Location of Well

0. SHL: NENE / 655 FNL / 915 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.10656 / LONG: -104.189417 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 330 FNL / 330 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107479 / LONG: -104.187543 (TVD: 8829 feet, MD: 8944 feet)

PPP: SESE / 1319 FSL / 330 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097491 / LONG: -104.187656 (TVD: 8993 feet, MD: 12575 feet)

PPP: SENE / 1321 FNL / 330 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.09014 / LONG: -104.187738 (TVD: 8993 feet, MD: 15215 feet)

PPP: NENE / 1 FNL / 330 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.071528 / LONG: -104.187948 (TVD: 8995 feet, MD: 19175 feet)

BHL: SESE / 200 FSL / 330 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064623 / LONG: -104.188026 (TVD: 8998 feet, MD: 24405 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- 54150	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 701H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3129.3'

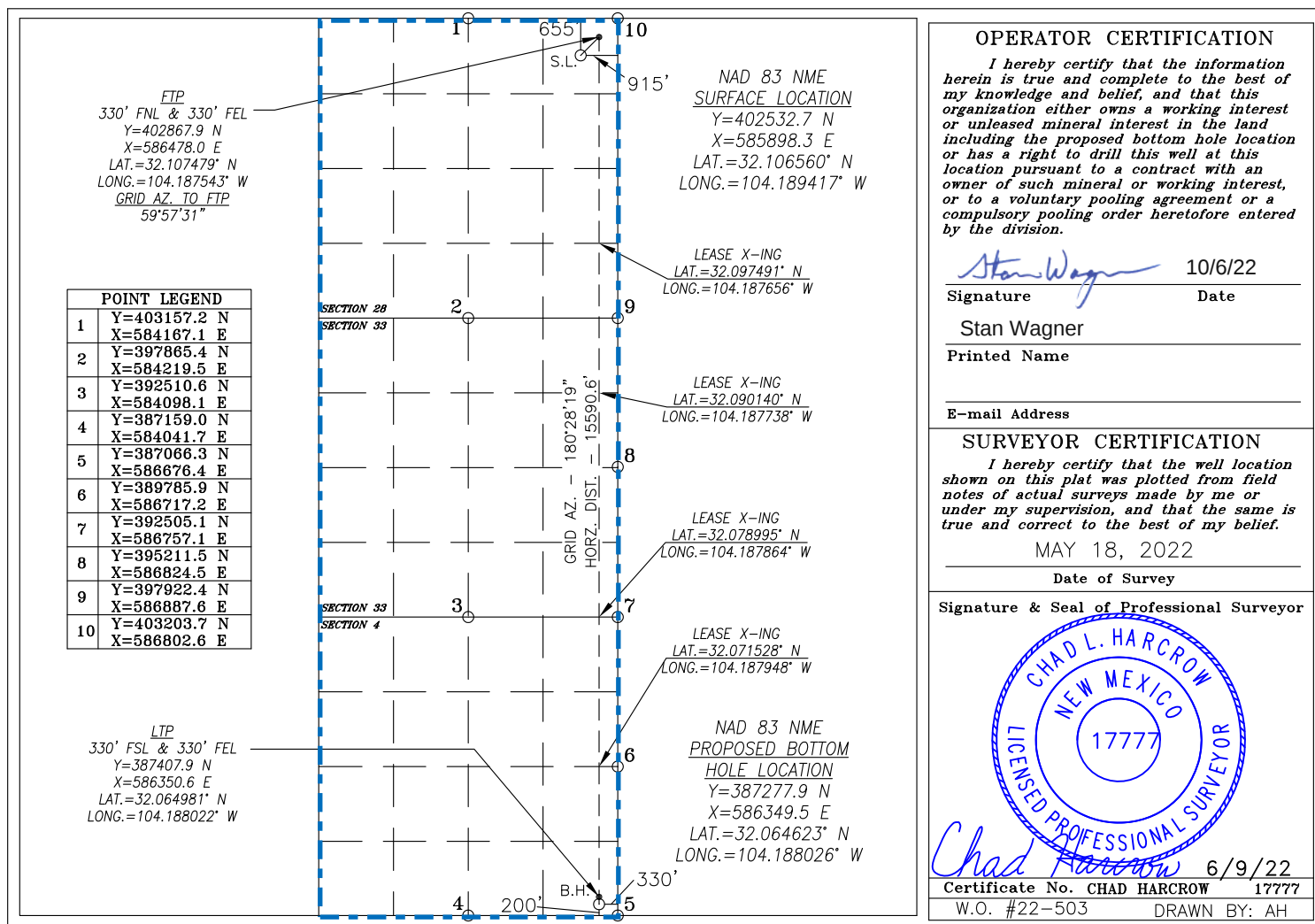
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	25-S	27-E		655	NORTH	915	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	4	26-S	27-E		200	SOUTH	330	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

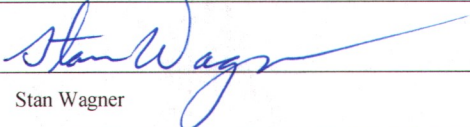
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 701H

1. Geologic Formations

TVD of target	8,998' EOL	Pilot hole depth	NA
MD at TD:	24,405'	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	2176	Salt Water	
Bell Canyon	2224	Salt Water	
Cherry Canyon	3031	Oil/Gas	
Brushy Canyon	4150	Oil/Gas	
Bone Spring Lime	5729	Oil/Gas	
1st Bone Spring Sand	6673	Oil/Gas	
2nd Bone Spring Sand	7176	Oil/Gas	
3rd Bone Spring Sand	7704	Oil/Gas	
Wolfcamp	8833	Oil/Gas	
Wolfcamp A	8921	Target Oil/Gas	
0	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	500	10.75"	45.5	J55	BTC	9.13	1.77	31.43	34.99
9.875"	0	5500	7.625"	29.7	HCL80	BTC	2.42	1.39	4.18	4.41
8.750"	5500	8300	7.625"	29.7	HCP110	W513	1.72	1.91	3.81	2.26
6.75"	0	7800	5.5"	23	P110	TXP BTC	2.87	3.39	4.06	4.06
6.75"	7800	24,405	5.5"	23	P110	W441	2.49	2.94	3.52	3.20
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

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

COG Operating, LLC - Flaming Snail Federal Com 701H

	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 701H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	238	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	570	10.3	3.3	22	24	Halliburton tunded light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	362	12.7	2	10.7	72	Lead: 50:50:10 H Blend
	1566	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 701H

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 701H

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 701H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5850 psi at 8998' 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

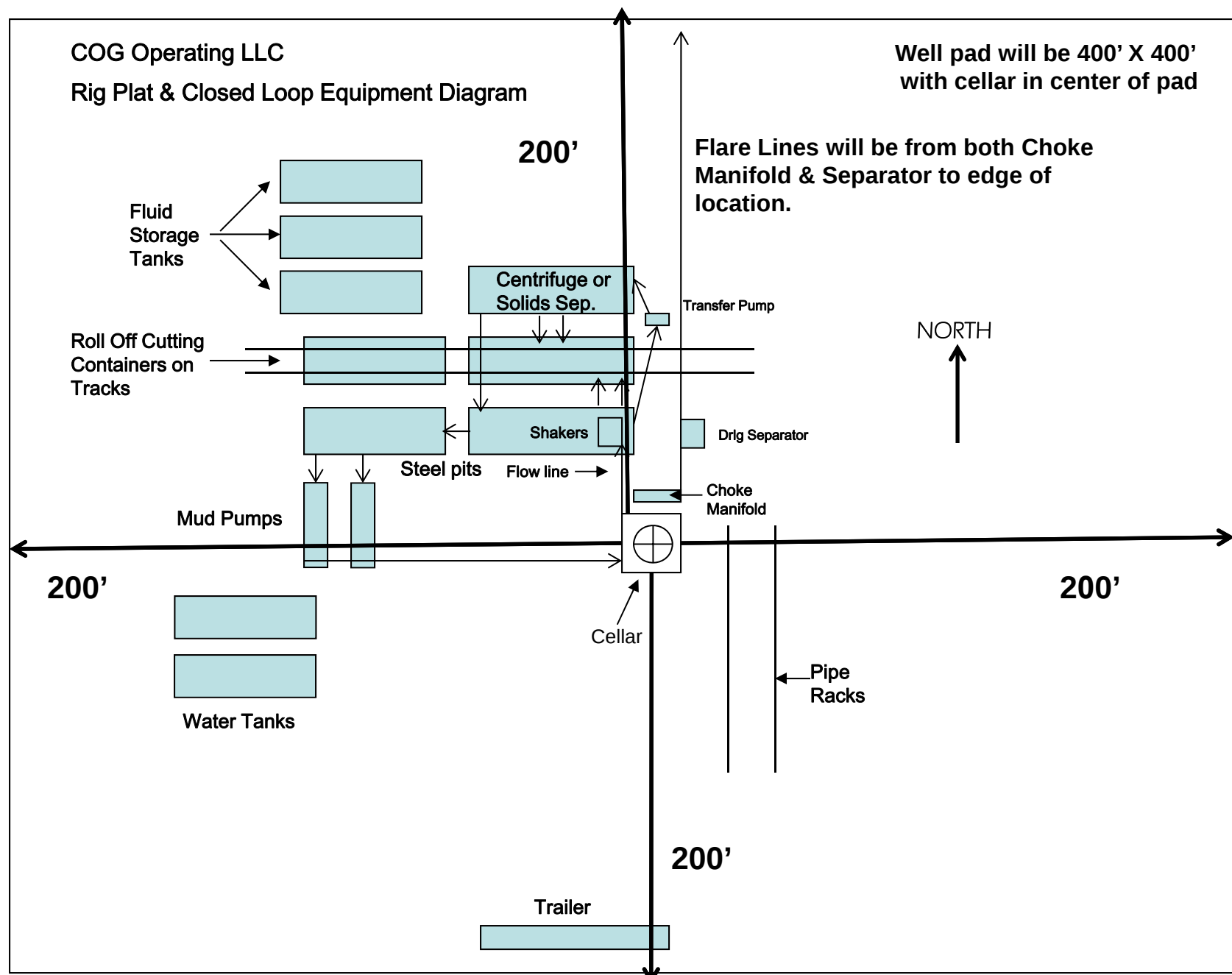
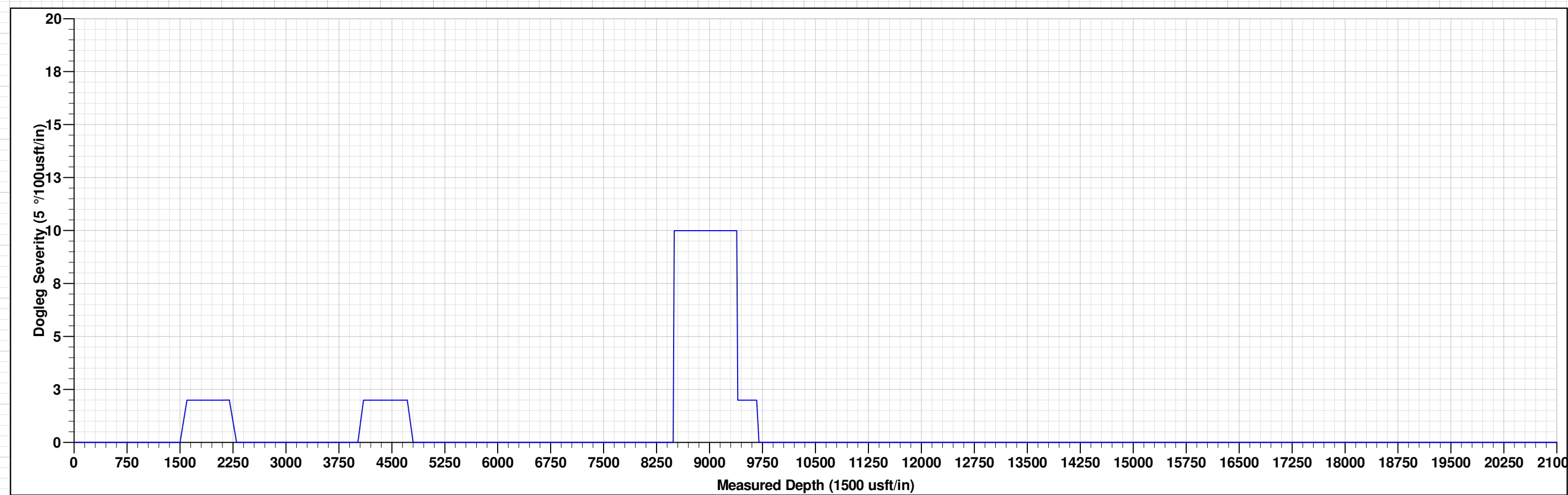
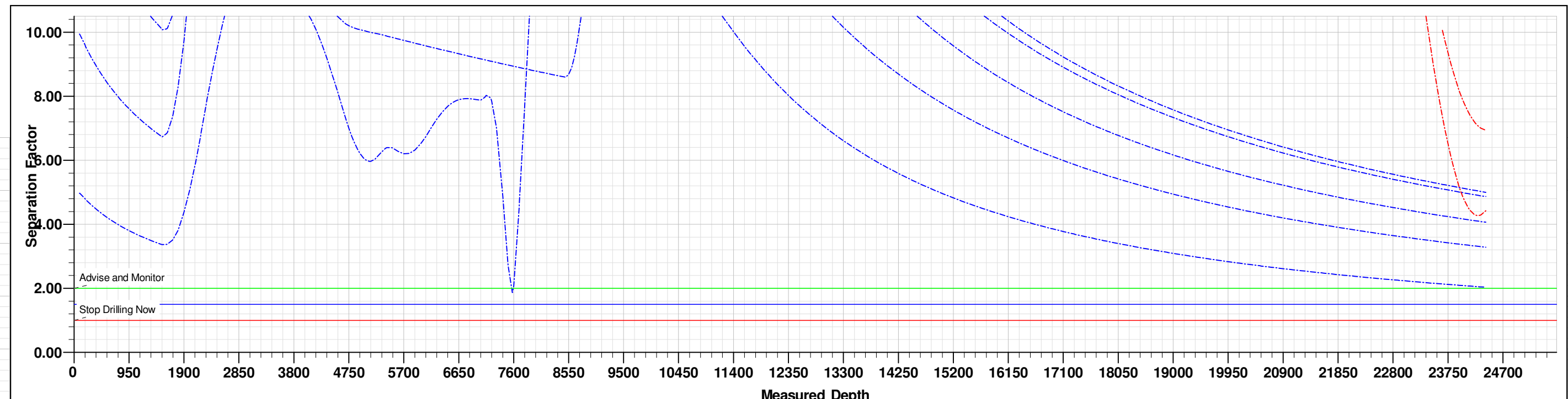
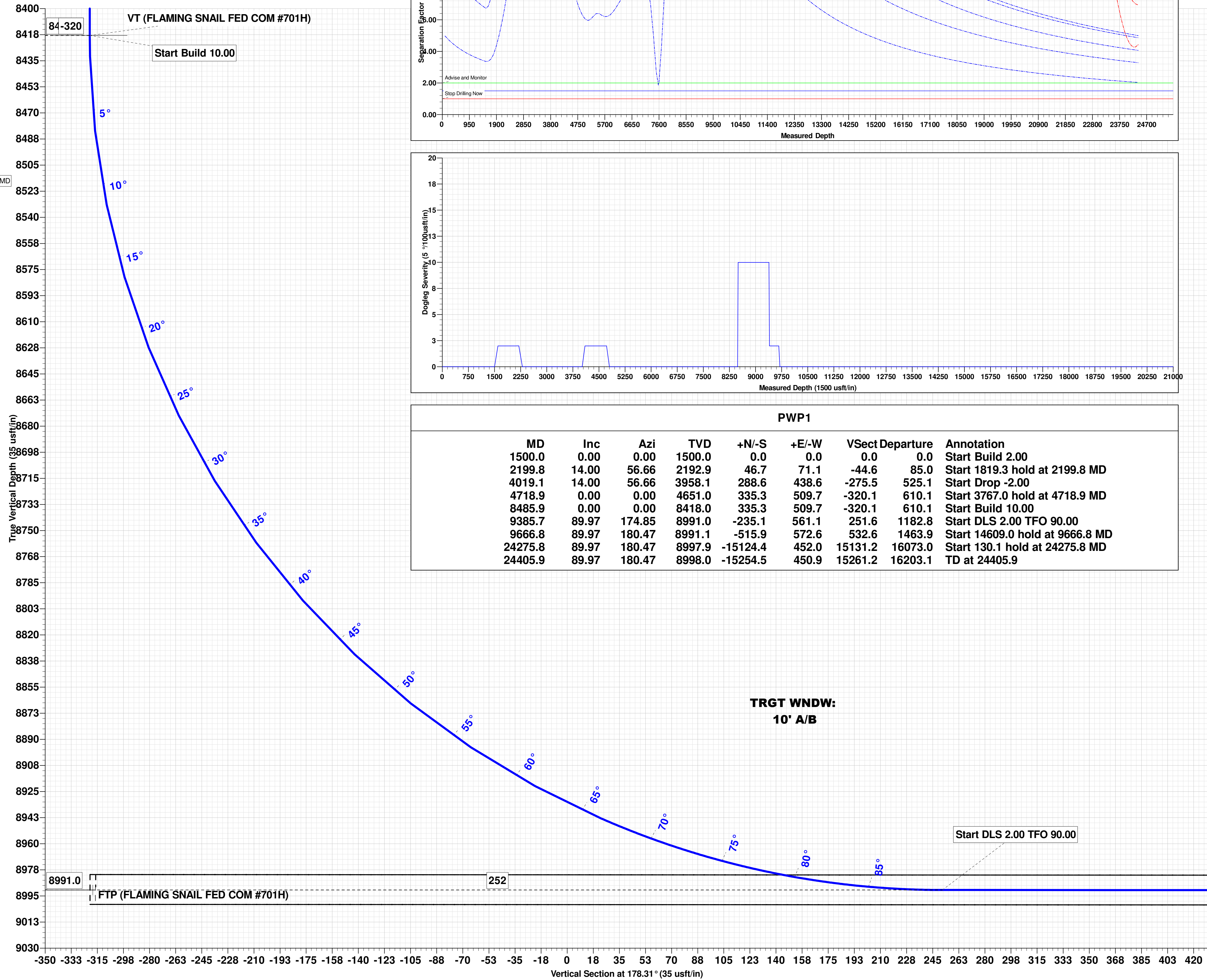
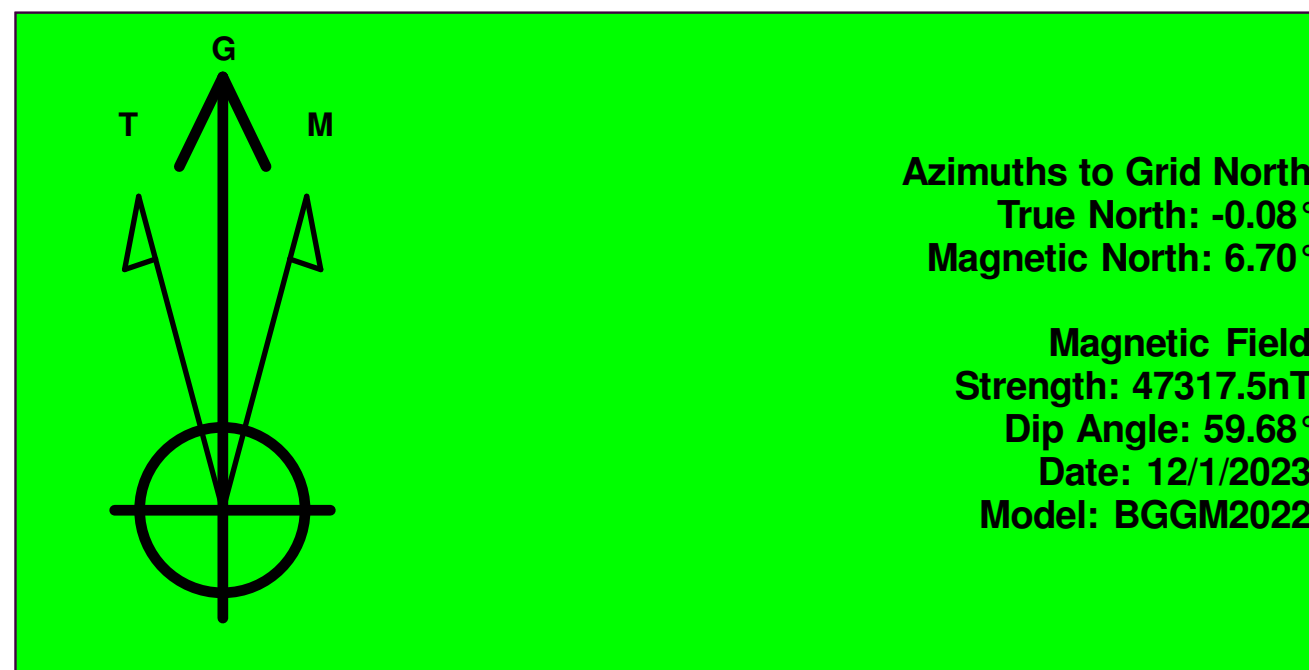
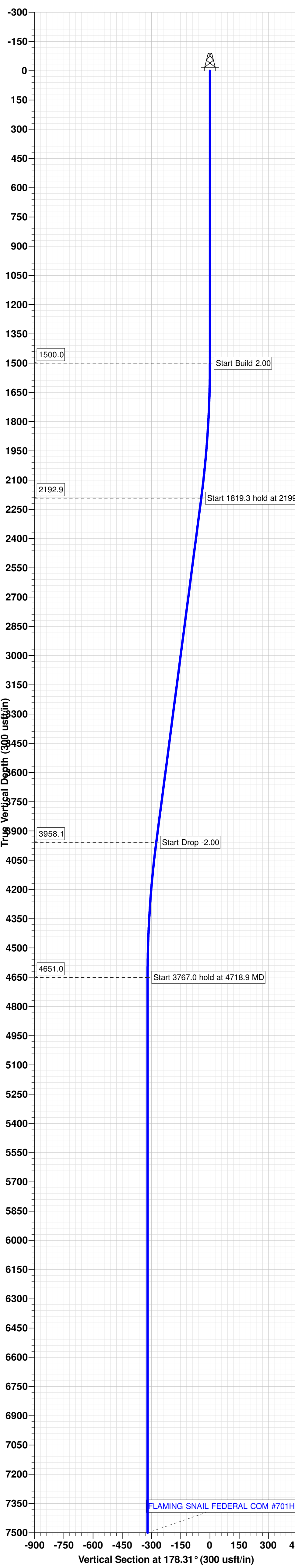
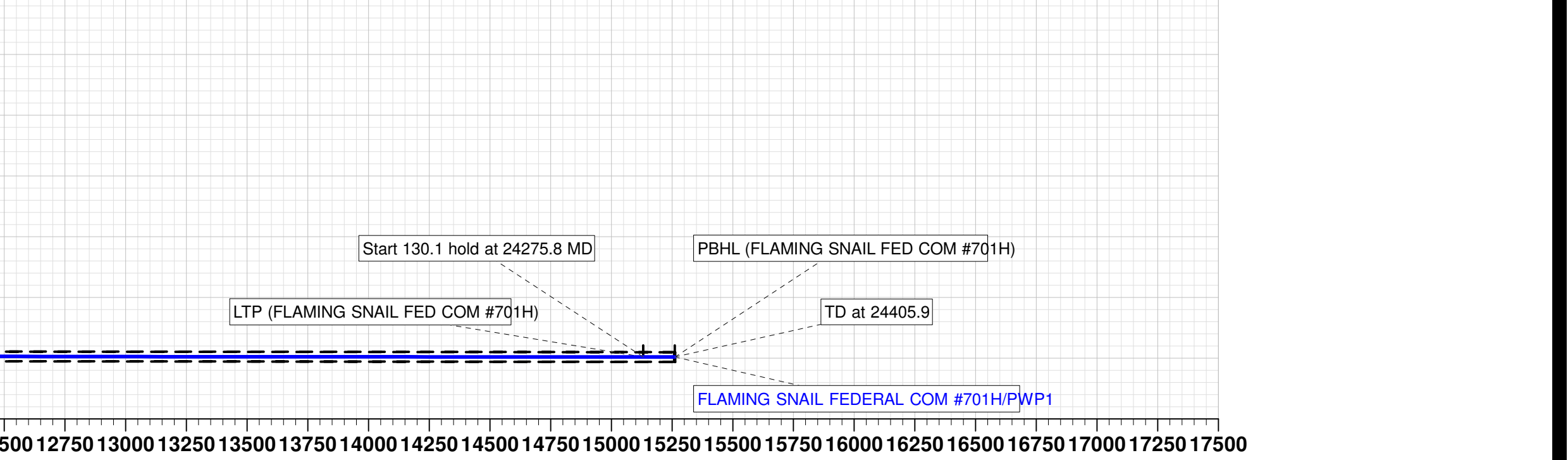
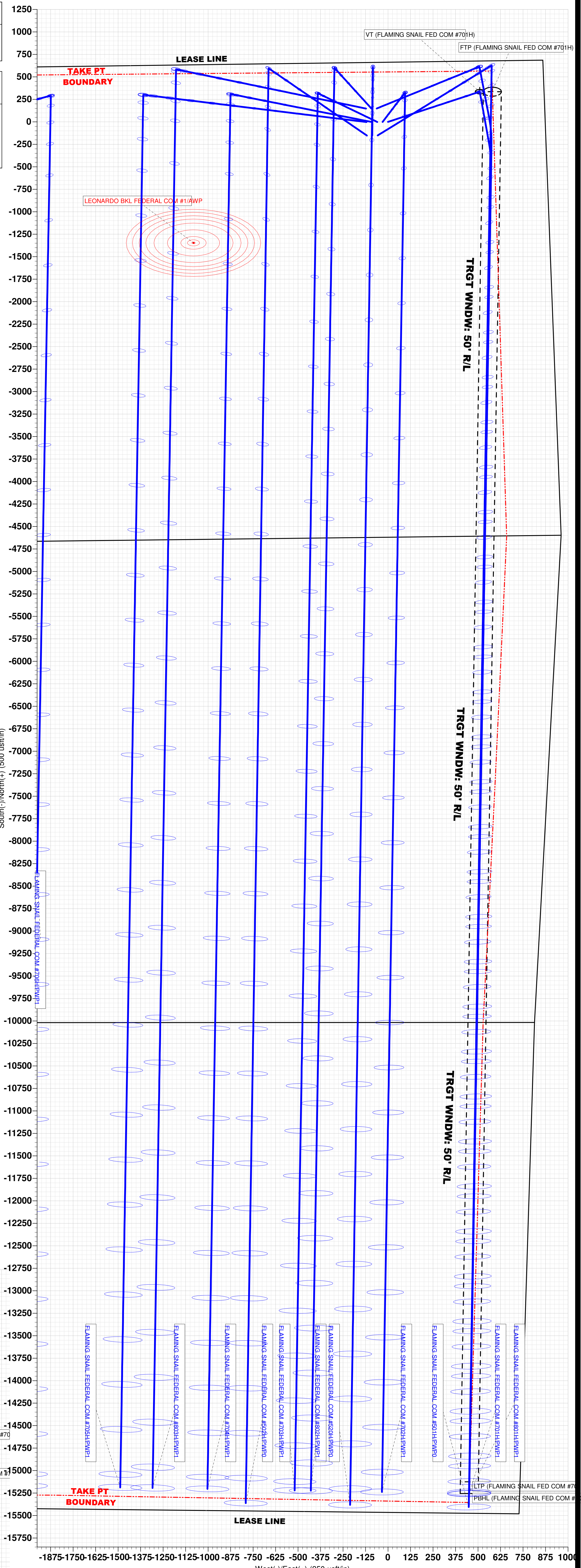
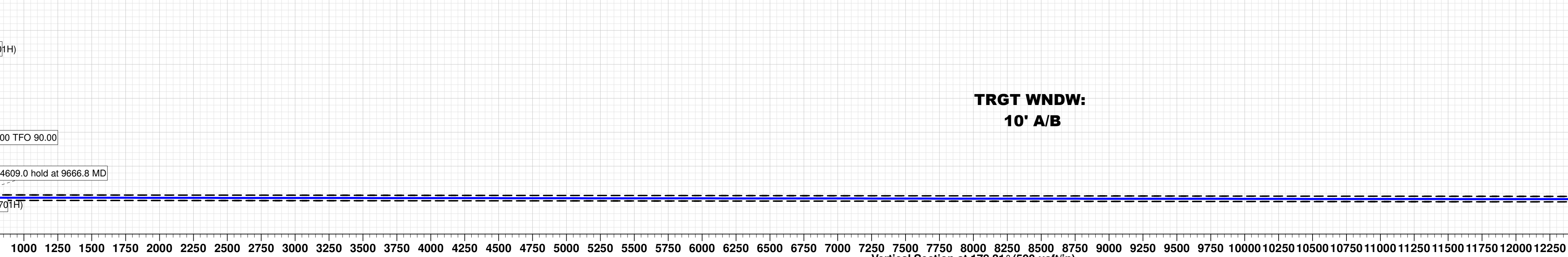
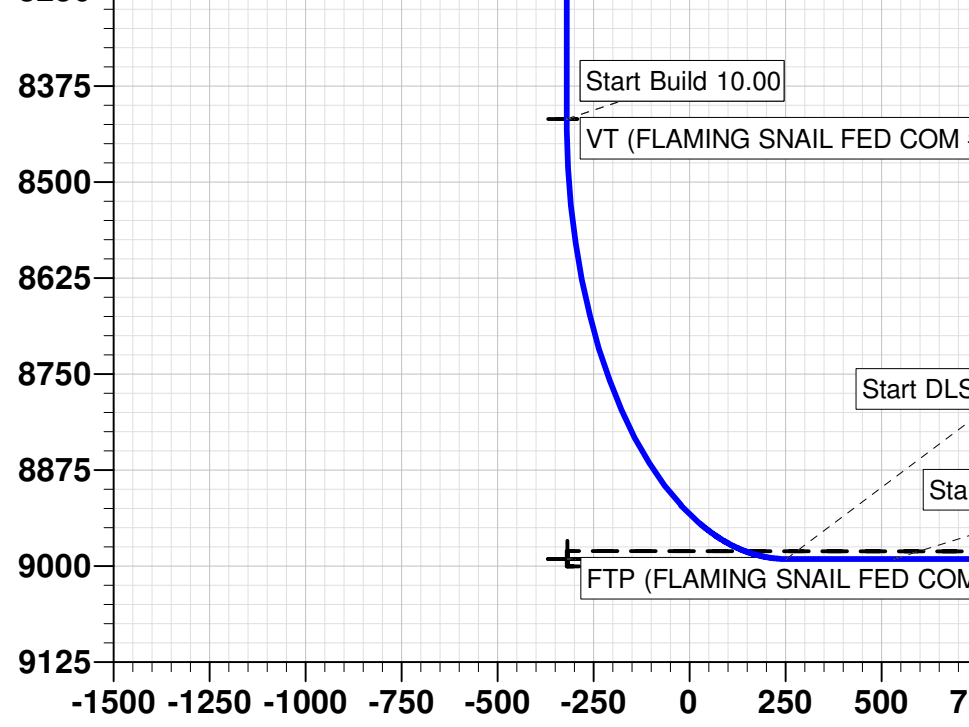
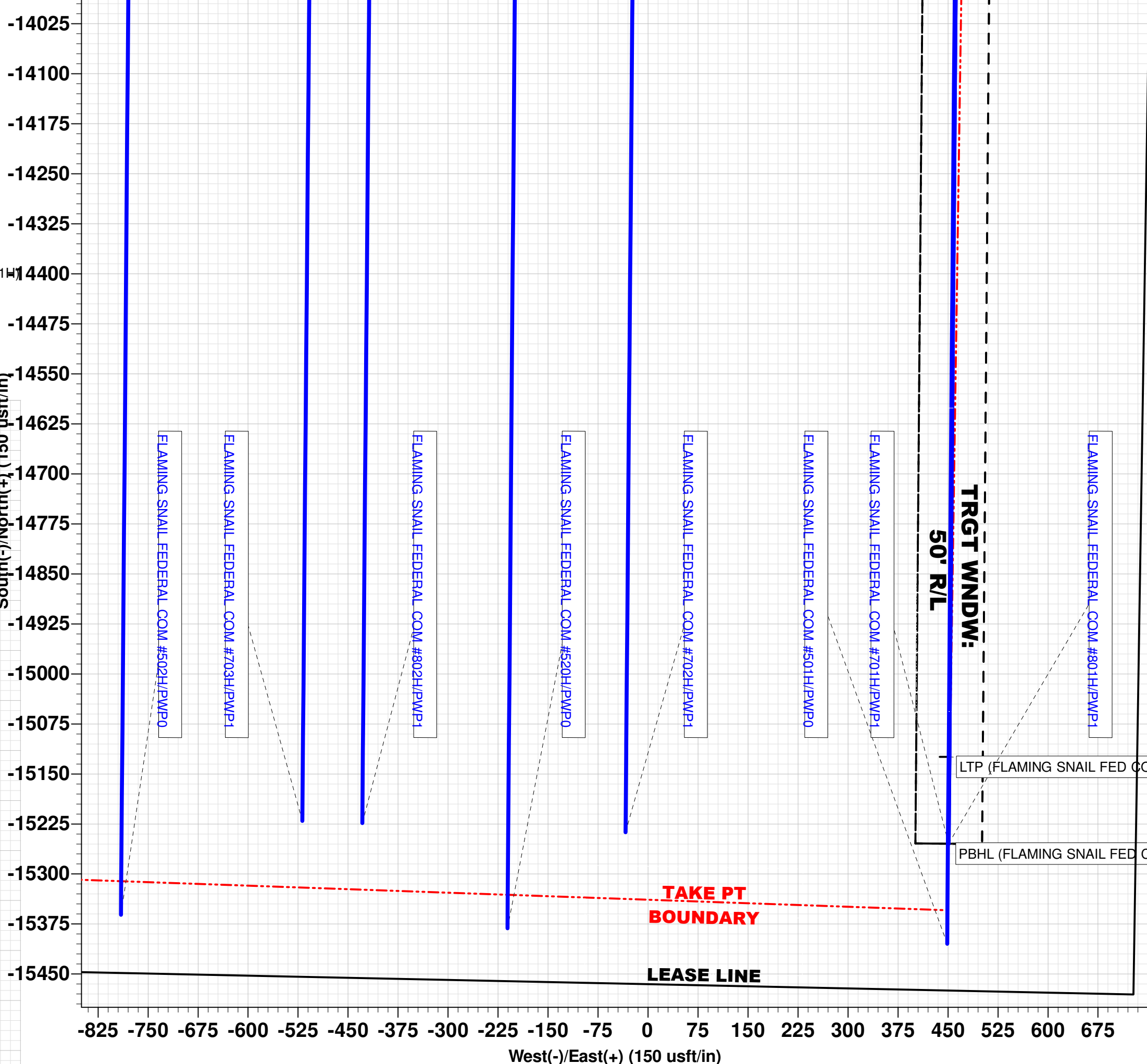
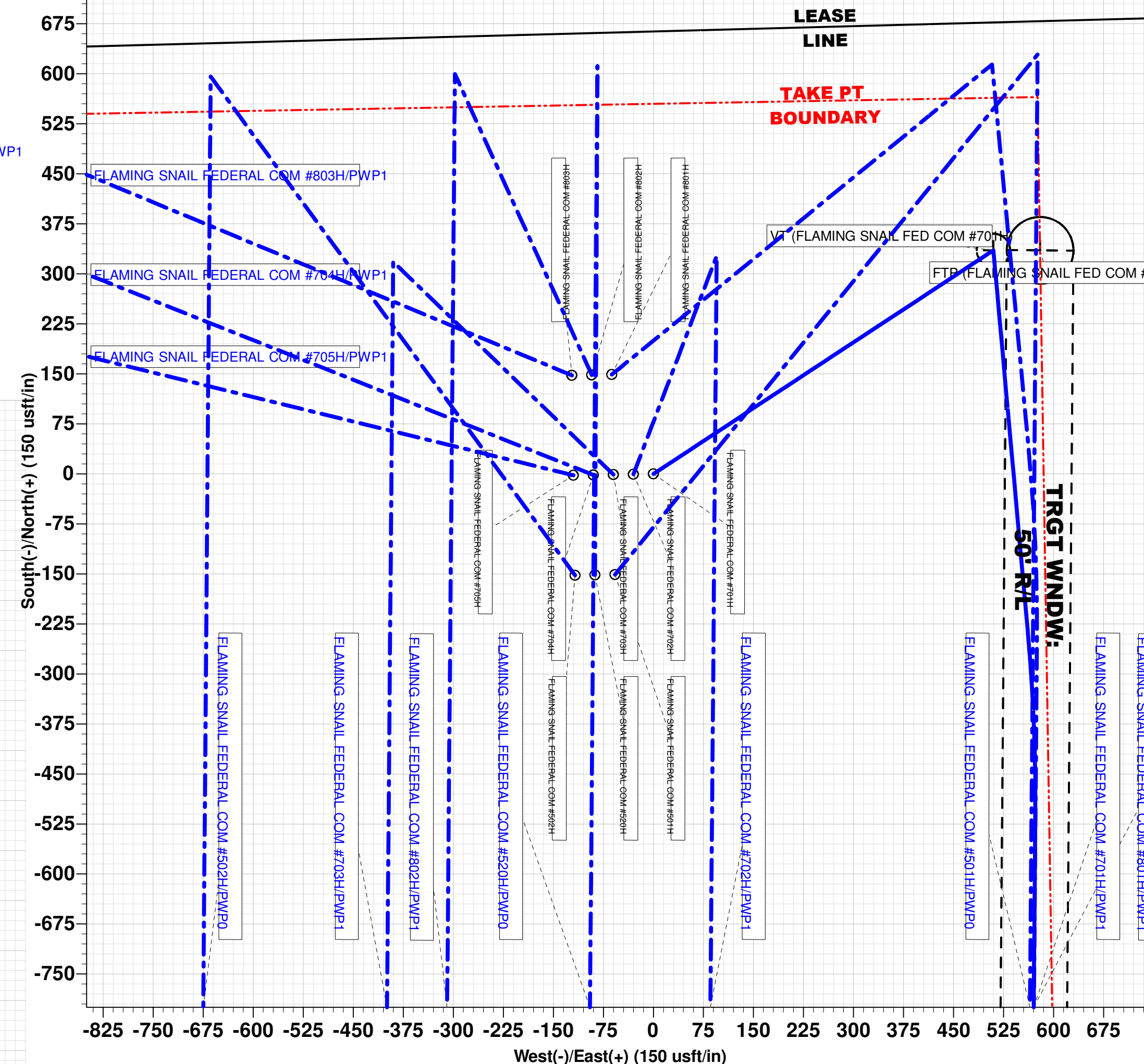
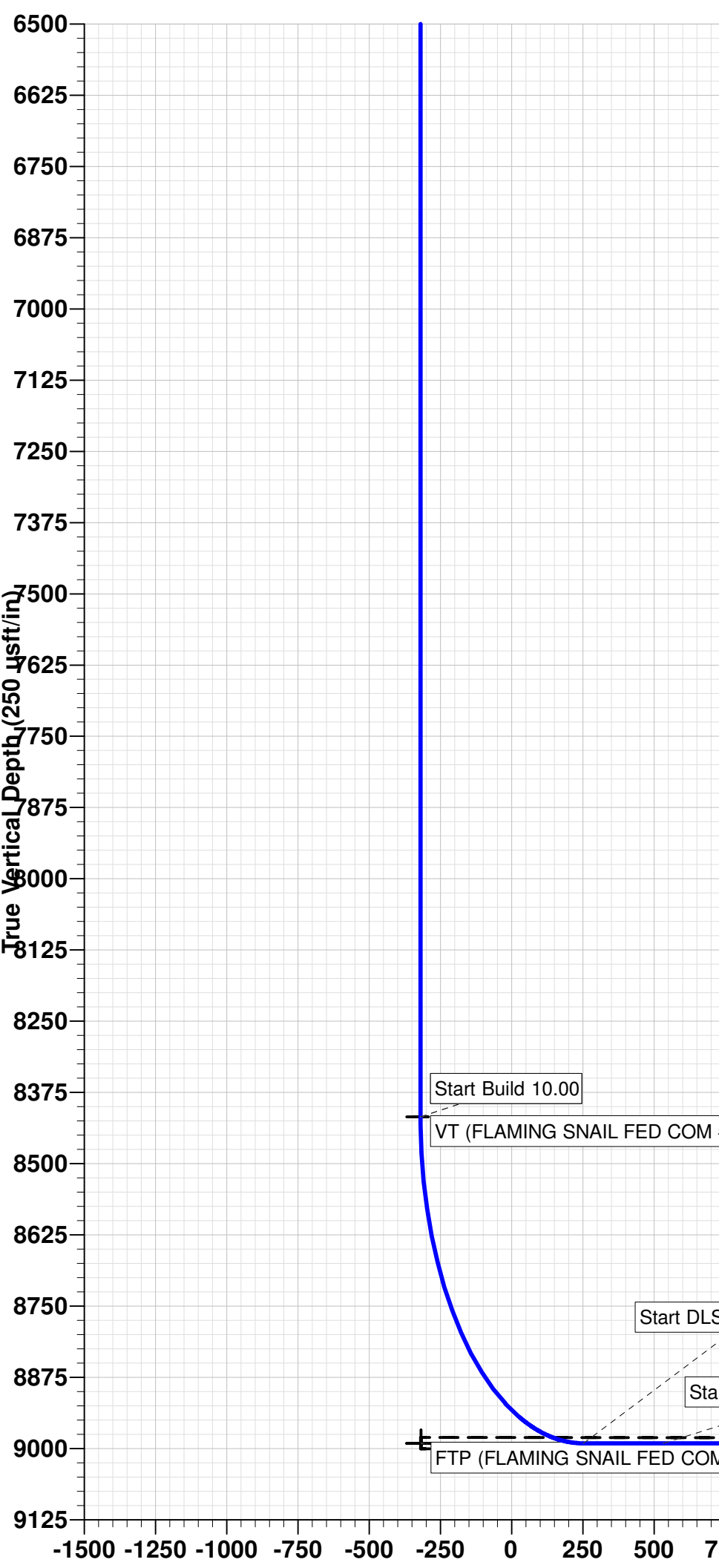


Exhibit 1

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



MD	Inc	Azi	TVD	+N-S	+E-W	Vsect	Departure	Annotation
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00
2199.8	14.00	56.66	2192.9	46.7	71.1	-44.6	85.0	Start 1819.3 hold at 2199.8 MD
4019.1	14.00	56.66	3958.1	288.6	438.6	-275.5	525.1	Start Drop -2.00
4718.9	0.00	0.00	4651.0	335.3	509.7	-320.1	610.1	Start 3767.0 hold at 4718.9 MD
8485.9	0.00	0.00	8418.0	335.3	509.7	-320.1	610.1	Start Build 10.00
9385.7	89.97	174.85	8991.0	-235.1	561.1	251.6	1182.8	Start DLS 2.00 TFO 90.00
9666.8	89.97	180.47	8991.1	-515.9	572.6	532.6	1463.9	Start 14609.0 hold at 9666.8 MD
24275.8	89.97	180.47	8997.9	-15124.4	452.0	15131.2	16073.0	Start 130.1 hold at 24275.8 MD
24405.9	89.97	180.47	8998.0	-15254.5	450.9	15261.2	16203.1	TD at 24405.9



TRGT WNDW:
10' A/B

Start 130.1 hold at 24275.8 MD

PBHL (FLAMING SNAIL FED COM #701H)

LTP (FLAMING SNAIL FED COM #701H)

TD at 24405.9

FLAMING SNAIL FEDERAL COM #701HPWP1

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #701H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program		Date	9/24/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp.-Initilzd Cont. rev.5	
1,500.0	8,485.9	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5	
8,485.9	24,405.9	PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #13H - OWB - AWP						Out of range
CICADA UNIT #14H - OWB - AWP	24,382.0	9,143.7	1,076.9	922.0	6.951	CC, ES
CICADA UNIT #14H - OWB - AWP	24,405.9	9,144.5	1,077.2	922.0	6.942	SF
CICADA UNIT #15H - OWB - AWP						Out of range
CICADA UNIT #16H - OWB - AWP	24,250.4	9,180.0	651.8	499.3	4.276	CC, ES
CICADA UNIT #16H - OWB - AWP	24,275.8	9,180.1	652.3	499.6	4.273	SF
CICADA UNIT #17H - OWB - AWP						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	7,575.4	7,731.9	64.0	29.7	1.868	Advise and Monitor, CC, ES,
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	1,500.0	1,500.3	192.2	184.2	23.947	CC, ES
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	1,710.0	1,710.1	199.5	190.9	23.170	SF
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,500.0	1,499.9	175.0	166.9	21.589	CC, ES
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,405.9	23,647.6	1,224.6	979.6	4.998	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,500.0	1,499.9	30.0	21.1	3.379	CC
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,520.0	1,520.0	30.0	21.1	3.364	ES
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	24,405.9	24,320.8	485.1	247.0	2.038	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	1,500.0	1,500.0	60.0	51.1	6.758	CC, ES
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,405.9	24,298.5	970.3	731.9	4.070	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,500.0	1,500.0	90.0	81.1	10.137	CC, ES
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,520.0	1,519.4	90.1	81.2	10.076	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,500.0	1,499.9	120.0	111.1	13.517	CC, ES
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,600.0	1,595.9	123.1	113.9	13.355	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,511.7	1,507.6	161.5	152.2	17.213	CC
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,600.0	1,594.5	161.7	152.1	16.919	ES
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,405.9	25,515.1	818.0	568.9	3.284	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,500.0	1,495.4	174.8	165.5	18.833	CC
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,520.0	1,514.5	174.9	165.5	18.728	ES
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,405.9	25,408.3	1,189.8	945.5	4.870	SF
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,500.0	1,495.4	191.8	182.6	20.825	CC
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	1,520.0	1,514.5	191.9	182.6	20.715	ES

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 #803H - OWB - PWP1	1,710.0	1,693.2	199.1	189.2	20.204	SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1						Out of range
LEONARDO BKL FEDERAL COM #1 - OWB - AWP						Out of range
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW						Out of range

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #13H - OWB - AWP	24,405.9	9,223.9				Out of Range @TD
CICADA UNIT #14H - OWB - AWP	24,405.9	9,144.5	1,077.2	922.0	6.942	SF
CICADA UNIT #15H - OWB - AWP	24,405.9	9,177.8				Out of Range @TD
CICADA UNIT #16H - OWB - AWP	24,405.9	9,180.6	670.1	518.7	4.426	
CICADA UNIT #17H - OWB - AWP	24,405.9	9,129.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	24,405.9	23,330.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	24,405.9	23,258.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	24,405.9	23,225.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,405.9	23,647.6	1,224.6	979.6	4.998	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	24,405.9	24,320.8	485.1	247.0	2.038	SF
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1	24,405.9	24,298.5	970.3	731.9	4.070	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,405.9	24,323.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,405.9	24,345.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,405.9	24,278.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,405.9	24,197.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,405.9	25,515.1	818.0	568.9	3.284	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,405.9	25,408.3	1,189.8	945.5	4.870	SF
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,405.9	25,430.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,405.9	25,359.2				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	24,405.9	8,972.4				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	24,405.9	7,054.0				Out of Range @TD

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - CICADA UNIT #14H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 277-MWD													Offset Well Error: 3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
23,655.0	8,997.6	9,118.7	9,109.8	113.9	35.6	-88.62	-15,238.8	1,527.9	1,299.1	1,170.0	129.13	10.060	
23,700.0	8,997.7	9,120.4	9,111.4	114.2	35.6	-88.71	-15,238.8	1,527.9	1,274.5	1,143.3	131.20	9.715	
23,750.0	8,997.7	9,122.2	9,113.2	114.6	35.6	-88.80	-15,238.9	1,527.9	1,248.5	1,115.0	133.49	9.353	
23,800.0	8,997.7	9,123.9	9,115.0	115.0	35.6	-88.90	-15,238.9	1,527.9	1,224.0	1,088.2	135.78	9.014	
23,845.0	8,997.7	9,125.5	9,116.6	115.3	35.6	-88.98	-15,239.0	1,527.9	1,203.3	1,065.4	137.82	8.731	
23,900.0	8,997.8	9,127.5	9,118.5	115.7	35.6	-89.09	-15,239.0	1,528.0	1,179.8	1,039.5	140.25	8.412	
23,940.0	8,997.8	9,128.9	9,119.9	116.0	35.6	-89.16	-15,239.1	1,528.0	1,164.0	1,022.0	141.98	8.198	
24,000.0	8,997.8	9,131.0	9,122.0	116.5	35.6	-89.27	-15,239.1	1,528.0	1,142.6	998.1	144.46	7.909	
24,035.0	8,997.8	9,132.2	9,123.2	116.7	35.7	-89.34	-15,239.2	1,528.0	1,131.4	985.5	145.84	7.758	
24,100.0	8,997.9	9,134.4	9,125.4	117.2	35.7	-89.45	-15,239.2	1,528.0	1,113.2	965.0	148.23	7.510	
24,130.0	8,997.9	9,135.4	9,126.4	117.5	35.7	-89.51	-15,239.3	1,528.0	1,106.0	956.7	149.24	7.411	
24,200.0	8,997.9	9,137.7	9,128.8	118.0	35.7	-89.63	-15,239.3	1,528.0	1,092.2	940.8	151.36	7.216	
24,225.0	8,997.9	9,138.6	9,129.6	118.2	35.7	-89.68	-15,239.4	1,528.0	1,088.3	936.2	152.02	7.159	
24,275.8	8,997.9	9,140.3	9,131.3	118.6	35.7	-89.77	-15,239.4	1,528.0	1,082.1	928.9	153.21	7.063	
24,300.0	8,998.0	9,141.0	9,132.1	118.7	35.7	-89.81	-15,239.4	1,528.0	1,080.0	926.3	153.69	7.027	
24,320.0	8,998.0	9,141.7	9,132.8	118.9	35.7	-89.84	-15,239.4	1,528.0	1,078.7	924.6	154.05	7.002	
24,382.0	8,998.0	9,143.7	9,134.8	119.4	35.7	-89.95	-15,239.5	1,528.0	1,076.9	922.0	154.93	6.951 CC, ES	
24,405.9	8,998.0	9,144.5	9,135.6	119.5	35.7	-89.99	-15,239.5	1,528.0	1,077.2	922.0	155.17	6.942 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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - CICADA UNIT #16H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program:		185-MWD											Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis			Offset Wellbore Centre		Rule Assigned:				Warning	
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside			Between	Between	Minimum	Separation		
Depth	Depth	Depth	Depth			Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor		
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)			
23,180.0	8,997.4	9,175.6	9,133.0	110.3	36.8	-89.68	-15,104.3	1,104.0	1,253.2	1,156.6	96.55	12.979		
23,200.0	8,997.4	9,175.7	9,133.1	110.4	36.8	-89.69	-15,104.3	1,104.0	1,236.1	1,138.9	97.29	12.706		
23,275.0	8,997.5	9,176.0	9,133.4	111.0	36.8	-89.71	-15,104.3	1,104.0	1,173.1	1,072.9	100.23	11.704		
23,300.0	8,997.5	9,176.1	9,133.5	111.2	36.8	-89.72	-15,104.3	1,104.0	1,152.4	1,051.1	101.27	11.379		
23,370.0	8,997.5	9,176.4	9,133.8	111.7	36.8	-89.75	-15,104.3	1,104.0	1,095.4	991.0	104.37	10.495		
23,400.0	8,997.5	9,176.5	9,133.9	111.9	36.8	-89.76	-15,104.3	1,104.0	1,071.4	965.6	105.79	10.128		
23,465.0	8,997.6	9,176.8	9,134.1	112.4	36.8	-89.78	-15,104.3	1,104.0	1,020.6	911.5	109.03	9.360		
23,500.0	8,997.6	9,177.0	9,134.3	112.7	36.8	-89.79	-15,104.3	1,104.0	993.9	883.0	110.89	8.963		
23,560.0	8,997.6	9,177.2	9,134.5	113.1	36.8	-89.82	-15,104.3	1,104.0	949.4	835.2	114.23	8.311		
23,600.0	8,997.6	9,177.4	9,134.7	113.4	36.8	-89.83	-15,104.3	1,104.0	920.7	804.2	116.58	7.898		
23,655.0	8,997.6	9,177.6	9,134.9	113.9	36.8	-89.85	-15,104.3	1,104.0	882.8	762.8	119.96	7.359		
23,700.0	8,997.7	9,177.8	9,135.1	114.2	36.8	-89.87	-15,104.3	1,104.0	853.1	730.2	122.84	6.944		
23,750.0	8,997.7	9,178.0	9,135.3	114.6	36.8	-89.88	-15,104.3	1,104.0	821.7	695.5	126.14	6.514		
23,800.0	8,997.7	9,178.2	9,135.5	115.0	36.8	-89.90	-15,104.3	1,104.0	792.2	662.7	129.51	6.117		
23,845.0	8,997.7	9,178.4	9,135.7	115.3	36.8	-89.92	-15,104.3	1,104.0	767.5	635.0	132.57	5.790		
23,900.0	8,997.8	9,178.6	9,135.9	115.7	36.8	-89.94	-15,104.3	1,104.0	740.0	603.7	136.29	5.429		
23,940.0	8,997.8	9,178.7	9,136.1	116.0	36.8	-89.95	-15,104.3	1,104.0	721.9	583.0	138.93	5.196		
24,000.0	8,997.8	9,179.0	9,136.3	116.5	36.8	-89.97	-15,104.3	1,104.0	698.2	555.5	142.68	4.894		
24,035.0	8,997.8	9,179.1	9,136.5	116.7	36.8	-89.99	-15,104.3	1,104.0	686.4	541.7	144.70	4.744		
24,100.0	8,997.9	9,179.4	9,136.7	117.2	36.8	-90.01	-15,104.3	1,104.0	668.9	520.9	147.99	4.520		
24,130.0	8,997.9	9,179.5	9,136.8	117.5	36.8	-90.02	-15,104.3	1,104.0	662.8	513.5	149.27	4.440		
24,200.0	8,997.9	9,179.8	9,137.1	118.0	36.8	-90.04	-15,104.3	1,104.0	653.7	502.2	151.52	4.314		
24,225.0	8,997.9	9,179.9	9,137.2	118.2	36.8	-90.05	-15,104.3	1,104.0	652.3	500.2	152.05	4.290		
24,250.4	8,997.9	9,180.0	9,137.3	118.4	36.8	-90.06	-15,104.3	1,104.0	651.8	499.3	152.43	4.276 CC, ES		
24,275.8	8,997.9	9,180.1	9,137.4	118.6	36.8	-90.07	-15,104.3	1,104.0	652.3	499.6	152.66	4.273 SF		
24,300.0	8,998.0	9,180.2	9,137.5	118.7	36.8	-90.08	-15,104.3	1,104.0	653.7	500.9	152.73	4.280		
24,320.0	8,998.0	9,180.3	9,137.6	118.9	36.8	-90.09	-15,104.3	1,104.0	655.5	502.8	152.68	4.293		
24,405.9	8,998.0	9,180.6	9,137.9	119.5	36.8	-90.12	-15,104.3	1,104.0	670.1	518.7	151.41	4.426		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (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	-159.12	-151.0	-57.6	161.6					
95.0	95.0	94.6	94.6	3.0	3.0	-159.12	-151.0	-57.6	161.6	155.6	6.02	26.855		
100.0	100.0	99.6	99.6	3.0	3.0	-159.12	-151.0	-57.6	161.6	155.6	6.02	26.842		
190.0	190.0	189.6	189.6	3.1	3.0	-159.12	-151.0	-57.6	161.6	155.5	6.13	26.352		
200.0	200.0	199.6	199.6	3.1	3.0	-159.12	-151.0	-57.6	161.6	155.5	6.15	26.274		
285.0	285.0	284.6	284.6	3.3	3.0	-159.12	-151.0	-57.6	161.6	155.4	6.26	25.808		
300.0	300.0	299.6	299.6	3.3	3.0	-159.12	-151.0	-57.6	161.6	155.3	6.28	25.715		
380.0	380.0	379.6	379.6	3.4	3.0	-159.12	-151.0	-57.6	161.6	155.2	6.39	25.280		
400.0	400.0	399.6	399.6	3.4	3.0	-159.12	-151.0	-57.6	161.6	155.2	6.42	25.164		
475.0	475.0	474.6	474.6	3.5	3.0	-159.12	-151.0	-57.6	161.6	155.1	6.53	24.761		
500.0	500.0	499.6	499.6	3.5	3.1	-159.12	-151.0	-57.6	161.6	155.0	6.56	24.621		
570.0	570.0	569.6	569.6	3.6	3.1	-159.12	-151.0	-57.6	161.6	154.9	6.66	24.250		
600.0	600.0	599.6	599.6	3.6	3.1	-159.12	-151.0	-57.6	161.6	154.9	6.71	24.087		
665.0	665.0	664.6	664.6	3.7	3.1	-159.12	-151.0	-57.6	161.6	154.8	6.81	23.748		
700.0	700.0	699.6	699.6	3.8	3.1	-159.12	-151.0	-57.6	161.6	154.8	6.86	23.562		
760.0	760.0	759.6	759.6	3.8	3.1	-159.12	-151.0	-57.6	161.6	154.7	6.95	23.254		
800.0	800.0	799.6	799.6	3.9	3.2	-159.12	-151.0	-57.6	161.6	154.6	7.01	23.047		
855.0	855.0	854.6	854.6	4.0	3.2	-159.12	-151.0	-57.6	161.6	154.5	7.10	22.770		
900.0	900.0	899.6	899.6	4.0	3.2	-159.12	-151.0	-57.6	161.6	154.4	7.17	22.541		
950.0	950.0	949.6	949.6	4.1	3.2	-159.12	-151.0	-57.6	161.6	154.4	7.25	22.295		
1,000.0	1,000.0	999.6	999.6	4.1	3.2	-159.12	-151.0	-57.6	161.6	154.3	7.33	22.047		
1,045.0	1,045.0	1,044.6	1,044.6	4.2	3.3	-159.12	-151.0	-57.6	161.6	154.2	7.40	21.829		
1,100.0	1,100.0	1,099.6	1,099.6	4.2	3.3	-159.12	-151.0	-57.6	161.6	154.1	7.49	21.563		
1,140.0	1,140.0	1,139.6	1,139.6	4.3	3.3	-159.12	-151.0	-57.6	161.6	154.1	7.56	21.374		
1,200.0	1,200.0	1,199.6	1,199.6	4.4	3.4	-159.12	-151.0	-57.6	161.6	154.0	7.66	21.091		
1,235.0	1,235.0	1,234.6	1,234.6	4.4	3.4	-159.12	-151.0	-57.6	161.6	153.9	7.72	20.929		
1,300.0	1,300.0	1,299.6	1,299.6	4.5	3.4	-159.12	-151.0	-57.6	161.6	153.8	7.83	20.630		
1,330.0	1,330.0	1,329.6	1,329.6	4.5	3.4	-159.12	-151.0	-57.6	161.6	153.7	7.89	20.495		
1,400.0	1,400.0	1,399.6	1,399.6	4.6	3.5	-159.12	-151.0	-57.6	161.6	153.6	8.01	20.181		
1,425.0	1,425.0	1,424.6	1,424.6	4.6	3.5	-159.12	-151.0	-57.6	161.6	153.6	8.05	20.071		
1,500.0	1,500.0	1,499.6	1,499.6	4.7	3.5	-159.12	-151.0	-57.6	161.6	153.4	8.19	19.743		
1,520.0	1,520.0	1,519.6	1,519.6	4.7	3.6	144.23	-151.0	-57.6	161.7	153.4	8.23	19.653		
1,600.0	1,600.0	1,599.6	1,599.6	4.9	3.6	144.56	-151.0	-57.6	163.0	154.6	8.41	19.376		
1,615.0	1,615.0	1,614.6	1,614.6	4.9	3.6	144.67	-151.0	-57.6	163.5	155.0	8.46	19.332		
1,700.0	1,699.8	1,699.4	1,699.4	5.1	3.7	145.55	-151.0	-57.6	167.3	158.6	8.71	19.216		
1,710.0	1,709.8	1,709.4	1,709.4	5.1	3.7	145.68	-151.0	-57.6	167.9	159.2	8.74	19.218		
1,800.0	1,799.5	1,799.1	1,799.1	5.3	3.8	147.09	-151.0	-57.6	174.6	165.6	9.01	19.368		
1,805.0	1,804.4	1,804.0	1,804.0	5.4	3.8	147.18	-151.0	-57.6	175.0	166.0	9.03	19.383		
1,900.0	1,898.7	1,898.3	1,898.3	5.6	3.9	149.03	-151.0	-57.6	185.0	175.6	9.34	19.803		
1,995.0	1,992.5	1,992.1	1,992.1	5.9	3.9	151.10	-151.0	-57.6	197.8	188.1	9.67	20.454		
2,000.0	1,997.5	1,997.1	1,997.1	5.9	3.9	151.21	-151.0	-57.6	198.6	188.9	9.69	20.495		
2,090.0	2,085.8	2,092.2	2,092.2	6.3	4.1	153.37	-149.8	-56.7	212.3	202.1	10.18	20.852		
2,100.0	2,095.6	2,102.8	2,102.8	6.3	4.1	153.61	-149.6	-56.4	213.8	203.6	10.25	20.872		
2,185.0	2,178.5	2,193.4	2,193.3	6.6	4.4	155.62	-145.9	-53.5	226.7	215.9	10.81	20.970		
2,199.8	2,192.9	2,209.3	2,209.1	6.6	4.4	155.96	-145.1	-52.8	228.9	218.0	10.91	20.980		
2,280.0	2,270.7	2,295.4	2,294.9	6.9	4.7	157.81	-139.2	-48.0	239.9	228.5	11.43	20.990		
2,300.0	2,290.1	2,317.0	2,316.4	7.0	4.8	158.24	-137.4	-46.6	242.3	230.7	11.56	20.957		
2,375.0	2,362.9	2,398.4	2,397.1	7.2	5.0	159.76	-129.5	-40.2	250.0	238.0	12.07	20.708		
2,400.0	2,387.1	2,425.6	2,424.0	7.3	5.1	160.24	-126.5	-37.7	252.2	239.9	12.25	20.588		
2,470.0	2,455.0	2,502.0	2,499.4	7.5	5.4	161.54	-117.0	-29.9	257.0	244.3	12.76	20.145		
2,500.0	2,484.1	2,534.8	2,531.7	7.6	5.5	162.08	-112.4	-26.2	258.5	245.6	12.98	19.919		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		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)			
2,565.0	2,547.2	2,606.1	2,601.6	7.9	5.8	163.23	-101.4	-17.3	260.7	247.3	13.48	19.351	
2,600.0	2,581.2	2,644.5	2,639.1	8.0	5.9	163.84	-95.0	-12.1	261.3	247.6	13.75	19.009	
2,660.0	2,639.4	2,709.4	2,702.2	8.2	6.2	164.88	-83.2	-2.5	261.2	247.0	14.22	18.377	
2,700.0	2,678.2	2,749.3	2,740.9	8.4	6.3	165.53	-75.7	3.6	260.9	246.4	14.51	17.982	
2,755.0	2,731.6	2,804.1	2,794.1	8.6	6.5	166.41	-65.4	11.9	260.5	245.6	14.92	17.459	
2,800.0	2,775.2	2,849.0	2,837.6	8.7	6.6	167.14	-57.0	18.8	260.2	245.0	15.27	17.046	
2,850.0	2,823.8	2,898.9	2,886.0	8.9	6.8	167.95	-47.6	26.4	260.0	244.3	15.66	16.606	
2,900.0	2,872.3	2,948.7	2,934.4	9.1	7.0	168.76	-38.2	34.0	259.8	243.7	16.05	16.184	
2,945.0	2,915.9	2,993.6	2,977.9	9.3	7.2	169.49	-29.8	40.9	259.6	243.2	16.41	15.820	
3,000.0	2,969.3	3,048.5	3,031.2	9.5	7.4	170.38	-19.5	49.2	259.5	242.7	16.86	15.396	
3,040.0	3,008.1	3,088.4	3,069.9	9.7	7.5	171.03	-12.0	55.3	259.5	242.3	17.18	15.100	
3,072.1	3,039.3	3,120.4	3,101.0	9.8	7.6	171.56	-6.0	60.2	259.5	242.0	17.45	14.871	
3,100.0	3,066.3	3,148.2	3,127.9	10.0	7.8	172.01	-0.8	64.4	259.5	241.8	17.68	14.678	
3,135.0	3,100.3	3,183.1	3,161.8	10.1	7.9	172.58	5.8	69.8	259.5	241.5	17.97	14.443	
3,200.0	3,163.4	3,247.9	3,224.7	10.4	8.1	173.63	17.9	79.7	259.6	241.1	18.51	14.027	
3,230.0	3,192.5	3,277.8	3,253.7	10.5	8.3	174.12	23.6	84.2	259.7	241.0	18.76	13.844	
3,300.0	3,260.4	3,347.7	3,321.5	10.8	8.6	175.26	36.7	94.9	260.0	240.7	19.35	13.438	
3,325.0	3,284.7	3,372.6	3,345.7	10.9	8.7	175.66	41.4	98.7	260.1	240.6	19.56	13.300	
3,400.0	3,357.4	3,447.4	3,418.2	11.2	9.0	176.87	55.4	110.1	260.6	240.4	20.19	12.907	
3,420.0	3,376.8	3,467.3	3,437.6	11.3	9.1	177.19	59.1	113.1	260.7	240.4	20.36	12.807	
3,500.0	3,454.5	3,547.1	3,515.0	11.7	9.4	178.48	74.1	125.3	261.4	240.3	21.03	12.428	
3,515.0	3,469.0	3,562.1	3,529.5	11.7	9.5	178.72	76.9	127.6	261.5	240.4	21.16	12.361	
3,600.0	3,551.5	3,646.8	3,611.8	12.1	9.8	-179.92	92.9	140.5	262.4	240.5	21.87	11.998	
3,610.0	3,561.2	3,656.8	3,621.4	12.2	9.9	-179.77	94.7	142.0	262.5	240.5	21.95	11.958	
3,700.0	3,648.5	3,746.6	3,708.5	12.5	10.3	-178.34	111.6	155.7	263.6	240.9	22.70	11.612	
3,705.0	3,653.4	3,751.5	3,713.4	12.6	10.3	-178.26	112.5	156.5	263.6	240.9	22.74	11.594	
3,800.0	3,745.6	3,846.3	3,805.3	13.0	10.7	-176.77	130.3	171.0	265.0	241.5	23.52	11.265	
3,895.0	3,837.7	3,941.0	3,897.2	13.4	11.1	-175.30	148.1	185.4	266.5	242.2	24.29	10.970	
3,900.0	3,842.6	3,946.0	3,902.0	13.4	11.1	-175.22	149.0	186.2	266.6	242.2	24.33	10.955	
3,990.0	3,929.9	4,035.8	3,989.1	13.9	11.5	-173.84	165.9	199.9	268.2	243.1	25.05	10.705	
4,000.0	3,939.6	4,045.7	3,998.8	13.9	11.6	-173.69	167.8	201.4	268.4	243.2	25.13	10.679	
4,019.1	3,958.1	4,064.8	4,017.3	14.0	11.7	-173.40	171.3	204.3	268.7	243.4	25.27	10.633	
4,085.0	4,022.3	4,130.5	4,081.1	14.3	12.0	-172.39	183.7	214.3	269.3	243.5	25.79	10.442	
4,100.0	4,036.9	4,145.5	4,095.6	14.3	12.0	-172.15	186.5	216.6	269.2	243.3	25.90	10.393	
4,180.0	4,115.3	4,225.2	4,172.9	14.7	12.4	-170.84	201.5	228.8	267.6	241.1	26.52	10.091	
4,200.0	4,134.9	4,245.1	4,192.3	14.8	12.5	-170.49	205.2	231.8	266.9	240.2	26.67	10.007	
4,275.0	4,208.9	4,319.8	4,264.7	15.2	12.8	-169.13	219.2	243.2	263.0	235.8	27.20	9.670	
4,300.0	4,233.6	4,344.6	4,288.8	15.3	12.9	-168.65	223.9	247.0	261.3	234.0	27.37	9.549	
4,370.0	4,303.0	4,414.1	4,356.2	15.6	13.3	-167.20	236.9	257.6	255.6	227.8	27.81	9.193	
4,400.0	4,332.8	4,443.8	4,385.0	15.7	13.4	-166.53	242.5	262.1	252.7	224.7	27.98	9.031	
4,465.0	4,397.4	4,508.1	4,447.4	16.0	13.7	-164.96	254.6	271.9	245.5	217.1	28.31	8.669	
4,500.0	4,432.3	4,542.6	4,480.9	16.1	13.9	-164.03	261.1	277.2	241.1	212.6	28.47	8.466	
4,560.0	4,492.2	4,601.6	4,538.1	16.3	14.1	-162.28	272.1	286.2	232.7	204.0	28.69	8.113	
4,600.0	4,532.1	4,640.8	4,576.2	16.5	14.3	-160.98	279.5	292.2	226.6	197.8	28.79	7.871	
4,655.0	4,587.1	4,694.5	4,628.3	16.7	14.6	-158.99	289.6	300.4	217.6	188.8	28.85	7.543	
4,700.0	4,632.1	4,738.3	4,670.8	16.8	14.8	-157.16	297.8	307.1	209.7	180.9	28.84	7.272	
4,718.9	4,651.0	4,756.7	4,688.6	16.8	14.9	-99.66	301.3	309.9	206.3	177.5	28.78	7.166	
4,750.0	4,682.1	4,786.9	4,717.9	16.8	15.0	-98.26	306.9	314.5	200.6	171.9	28.65	7.001	
4,800.0	4,732.1	4,835.4	4,765.0	16.8	15.2	-95.85	316.1	321.9	191.7	163.4	28.38	6.756	
4,845.0	4,777.1	4,879.0	4,807.3	16.9	15.4	-93.49	324.3	328.5	184.1	156.0	28.07	6.558	
4,900.0	4,832.1	4,932.4	4,859.1	16.9	15.7	-90.34	334.3	336.7	175.2	147.6	27.60	6.348	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	
(usft)	(usft)	(usft)	(usft)						(usft)	(usft)		
4,940.0	4,872.1	4,971.2	4,896.8	16.9	15.9	-87.85	341.6	342.6	169.1	141.9	27.19	6.220
5,000.0	4,932.1	5,029.4	4,953.3	16.9	16.1	-83.80	352.5	351.5	160.6	134.2	26.44	6.074
5,035.0	4,967.1	5,063.4	4,986.2	17.0	16.3	-81.24	358.9	356.6	156.1	130.1	25.95	6.016
5,100.0	5,032.1	5,126.5	5,047.4	17.0	16.6	-76.13	370.7	366.3	148.6	123.7	24.91	5.965
5,130.0	5,062.1	5,155.6	5,075.7	17.0	16.7	-73.61	376.2	370.7	145.5	121.2	24.39	5.968
5,200.0	5,132.1	5,223.5	5,141.6	17.0	17.0	-67.36	388.9	381.1	139.7	116.6	23.15	6.034
5,225.0	5,157.1	5,247.7	5,165.1	17.1	17.2	-65.02	393.5	384.8	138.1	115.3	22.73	6.075
5,300.0	5,232.1	5,320.5	5,235.7	17.1	17.5	-57.74	407.2	395.9	134.7	113.0	21.63	6.227
5,320.0	5,252.1	5,339.9	5,254.5	17.1	17.6	-55.74	410.8	398.8	134.2	112.8	21.41	6.267
5,368.2	5,300.3	5,386.7	5,299.9	17.1	17.8	-50.91	419.6	406.0	133.7	112.6	21.05	6.351
5,400.0	5,332.1	5,417.5	5,329.8	17.1	18.0	-47.71	425.4	410.7	133.9	112.9	20.96	6.387
5,415.0	5,347.1	5,432.1	5,344.0	17.2	18.0	-46.20	428.1	412.9	134.1	113.2	20.96	6.399
5,500.0	5,432.1	5,514.6	5,424.0	17.2	18.4	-37.87	443.6	425.5	137.4	115.9	21.51	6.387
5,510.0	5,442.1	5,524.3	5,433.4	17.2	18.5	-36.92	445.4	427.0	138.0	116.4	21.63	6.379
5,600.0	5,532.1	5,611.6	5,518.1	17.2	18.9	-28.75	461.8	440.3	144.9	121.9	23.07	6.282
5,605.0	5,537.1	5,616.4	5,522.8	17.3	18.9	-28.32	462.7	441.0	145.4	122.2	23.17	6.276
5,700.0	5,632.1	5,708.6	5,612.3	17.3	19.4	-20.67	480.0	455.1	155.9	130.8	25.14	6.202
5,795.0	5,727.1	5,800.8	5,701.7	17.4	19.8	-14.05	497.4	469.2	168.9	141.7	27.18	6.215
5,800.0	5,732.1	5,805.7	5,706.4	17.4	19.8	-13.73	498.3	469.9	169.6	142.4	27.28	6.219
5,890.0	5,822.1	5,893.0	5,791.2	17.4	20.2	-8.40	514.7	483.2	183.9	154.8	29.09	6.320
5,900.0	5,832.1	5,902.7	5,800.6	17.4	20.3	-7.86	516.5	484.7	185.5	156.2	29.28	6.336
5,985.0	5,917.1	5,985.2	5,880.6	17.5	20.7	-3.61	532.0	497.3	200.3	169.5	30.82	6.501
6,000.0	5,932.1	5,999.7	5,894.7	17.5	20.7	-2.93	534.7	499.5	203.1	172.0	31.07	6.535
6,080.0	6,012.1	6,077.3	5,970.0	17.5	21.1	0.44	549.3	511.3	218.0	185.7	32.35	6.740
6,100.0	6,032.1	6,096.7	5,988.9	17.5	21.2	1.21	552.9	514.3	221.9	189.2	32.65	6.796
6,175.0	6,107.1	6,171.0	6,060.9	17.6	21.6	3.93	566.8	525.6	236.5	202.8	33.69	7.020
6,200.0	6,132.1	6,197.1	6,086.4	17.6	21.7	4.76	571.5	529.4	241.3	207.3	34.02	7.092
6,270.0	6,202.1	6,270.9	6,158.4	17.6	22.0	6.79	583.7	539.3	253.9	219.0	34.87	7.281
6,300.0	6,232.1	6,302.7	6,189.7	17.6	22.2	7.54	588.5	543.2	258.8	223.7	35.19	7.355
6,365.0	6,297.1	6,372.2	6,258.0	17.7	22.5	8.93	598.1	551.0	268.8	233.0	35.82	7.504
6,400.0	6,332.1	6,409.9	6,295.2	17.7	22.7	9.57	602.7	554.8	273.7	237.5	36.13	7.575
6,460.0	6,392.1	6,474.8	6,359.5	17.7	23.0	10.50	609.9	560.6	281.1	244.5	36.59	7.682
6,500.0	6,432.1	6,518.3	6,402.6	17.7	23.2	11.01	614.0	563.9	285.4	248.6	36.87	7.743
6,555.0	6,487.1	6,578.3	6,462.3	17.8	23.4	11.60	618.9	567.9	290.6	253.4	37.20	7.811
6,600.0	6,532.1	6,627.6	6,511.5	17.8	23.6	11.98	622.2	570.6	294.0	256.6	37.43	7.855
6,650.0	6,582.1	6,682.6	6,566.3	17.8	23.8	12.31	625.1	572.9	297.0	259.4	37.64	7.890
6,700.0	6,632.1	6,737.6	6,621.3	17.8	24.0	12.54	627.2	574.6	299.2	261.4	37.81	7.912
6,745.0	6,677.1	6,787.3	6,670.9	17.9	24.2	12.67	628.3	575.6	300.4	262.5	37.93	7.920
6,800.0	6,732.1	6,848.0	6,731.6	17.9	24.3	12.73	628.9	576.0	301.0	263.0	37.96	7.928
6,840.0	6,772.1	6,888.1	6,771.7	17.9	24.3	12.73	628.9	576.0	301.0	263.0	38.00	7.921
6,900.0	6,832.1	6,948.1	6,831.7	17.9	24.3	12.73	628.9	576.0	301.0	262.9	38.06	7.907
6,935.0	6,867.1	6,983.1	6,866.7	18.0	24.3	12.73	628.9	576.0	301.0	262.9	38.10	7.899
7,000.0	6,932.1	7,048.1	6,931.7	18.0	24.4	12.73	628.9	576.0	301.0	262.8	38.17	7.884
7,030.0	6,962.1	7,078.1	6,961.7	18.0	24.4	12.73	628.9	576.0	301.0	262.7	38.20	7.878
7,100.0	7,032.1	7,174.0	7,057.5	18.1	24.4	12.82	626.6	576.0	299.9	262.2	37.65	7.965
7,125.0	7,057.1	7,224.4	7,107.5	18.1	24.4	13.10	620.0	575.9	296.7	259.7	36.96	8.026
7,200.0	7,132.1	7,364.3	7,240.9	18.1	24.5	15.13	579.0	575.6	275.0	240.4	34.59	7.951
7,220.0	7,152.1	7,397.6	7,270.9	18.1	24.6	16.02	564.5	575.5	266.6	232.6	33.97	7.847
7,300.0	7,232.1	7,512.0	7,366.5	18.2	24.7	21.38	502.1	575.0	224.2	192.2	31.96	7.015
7,315.0	7,247.1	7,530.2	7,380.5	18.2	24.7	22.80	490.4	574.9	215.0	183.3	31.69	6.784
7,400.0	7,332.1	7,616.8	7,441.7	18.2	24.7	34.56	429.2	574.4	158.4	127.5	30.98	5.114

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
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			
7,410.0	7,342.1	7,625.4	7,447.2	18.2	24.8	36.50	422.7	574.4	151.5	120.5	31.01	4.886	Advise and Monitor, CC, ES, SF	
7,500.0	7,432.1	7,690.5	7,486.0	18.3	24.8	61.34	370.4	573.9	91.1	58.4	32.76	2.782		
7,505.0	7,437.1	7,693.6	7,487.6	18.3	24.8	63.13	367.8	573.9	88.2	55.2	32.95	2.677		
7,575.4	7,507.5	7,731.9	7,507.4	18.3	24.8	90.29	335.0	573.7	64.0	29.7	34.25	1.868		
7,600.0	7,532.1	7,743.5	7,513.0	18.3	24.8	99.31	324.8	573.6	67.4	34.8	32.59	2.068		
7,695.0	7,627.1	7,781.1	7,529.5	18.4	24.9	124.82	291.1	573.3	124.3	97.0	27.34	4.546		
7,700.0	7,632.1	7,782.8	7,530.2	18.4	24.9	125.76	289.5	573.3	128.2	101.0	27.24	4.707		
7,790.0	7,722.1	7,810.3	7,540.8	18.4	24.9	138.28	264.2	573.1	204.5	177.9	26.58	7.692		
7,800.0	7,732.1	7,812.9	7,541.8	18.4	24.9	139.27	261.7	573.1	213.3	186.8	26.57	8.030		
7,885.0	7,817.1	7,833.4	7,548.8	18.5	24.9	145.73	242.5	572.9	290.5	263.9	26.63	10.910		
7,900.0	7,832.1	7,836.6	7,549.8	18.5	24.9	146.59	239.5	572.9	304.4	277.7	26.66	11.419		
7,980.0	7,912.1	7,850.0	7,554.0	18.6	24.9	149.84	226.7	572.8	379.2	352.3	26.86	14.116		
8,000.0	7,932.1	7,850.0	7,554.0	18.6	24.9	149.84	226.7	572.8	398.1	371.2	26.94	14.777		
8,075.0	8,007.1	7,867.5	7,558.9	18.6	24.9	153.34	209.9	572.7	469.3	442.2	27.11	17.309		
8,100.0	8,032.1	7,871.2	7,559.9	18.6	24.9	153.98	206.4	572.6	493.2	466.0	27.19	18.140		
8,170.0	8,102.1	7,880.5	7,562.3	18.7	24.9	155.50	197.4	572.6	560.3	532.9	27.40	20.453		
8,200.0	8,132.1	7,884.2	7,563.2	18.7	24.9	156.05	193.8	572.5	589.3	561.8	27.49	21.437		
8,265.0	8,197.1	7,900.0	7,566.8	18.7	24.9	158.21	178.4	572.4	652.2	624.6	27.66	23.577		
8,300.0	8,232.1	7,900.0	7,566.8	18.7	24.9	158.21	178.4	572.4	686.1	658.3	27.78	24.694		
8,360.0	8,292.1	7,900.0	7,566.8	18.8	24.9	158.21	178.4	572.4	744.4	716.4	27.99	26.597		
8,400.0	8,332.1	7,900.0	7,566.8	18.8	24.9	158.21	178.4	572.4	783.4	755.3	28.12	27.859		
8,455.0	8,387.1	7,900.0	7,566.8	18.8	24.9	158.21	178.4	572.4	837.2	808.9	28.32	29.561		
8,485.9	8,418.0	7,900.0	7,566.8	18.8	24.9	158.21	178.4	572.4	867.5	839.1	28.43	30.512		
8,500.0	8,432.1	7,900.0	7,566.8	18.8	24.9	-14.82	178.4	572.4	881.3	852.8	28.48	30.946		
8,550.0	8,482.0	7,917.7	7,570.3	18.9	25.0	-9.60	161.1	572.3	929.2	900.6	28.62	32.470		
8,600.0	8,531.4	7,923.8	7,571.4	18.9	25.0	-7.29	155.0	572.2	976.3	947.5	28.80	33.895		
8,645.0	8,575.1	7,930.3	7,572.5	18.9	25.0	-5.93	148.6	572.2	1,017.5	988.5	28.98	35.106		
8,650.0	8,579.9	7,931.1	7,572.6	18.9	25.0	-5.81	147.9	572.2	1,022.0	993.0	29.00	35.236		
8,700.0	8,627.2	7,950.0	7,575.3	18.9	25.0	-4.59	129.1	572.0	1,066.2	1,037.0	29.20	36.513		
8,740.0	8,663.9	7,950.0	7,575.3	18.9	25.0	-4.10	129.1	572.0	1,100.1	1,070.7	29.40	37.423		
8,750.0	8,672.9	7,950.0	7,575.3	19.0	25.0	-4.00	129.1	572.0	1,108.4	1,078.9	29.45	37.641		
8,800.0	8,716.6	7,950.0	7,575.3	19.0	25.0	-3.55	129.1	572.0	1,148.8	1,119.1	29.71	38.670		
8,835.0	8,745.9	7,950.0	7,575.3	19.0	25.0	-3.29	129.1	572.0	1,176.0	1,146.1	29.90	39.330		
8,850.0	8,758.1	7,968.7	7,577.4	19.0	25.0	-3.01	110.5	571.9	1,186.9	1,156.9	29.95	39.629		
8,900.0	8,797.0	7,979.9	7,578.3	19.1	25.0	-2.65	99.4	571.8	1,222.8	1,192.6	30.22	40.464		
8,930.0	8,819.0	8,000.0	7,579.5	19.1	25.0	-2.37	79.3	571.6	1,243.4	1,213.1	30.36	40.951		
8,950.0	8,833.0	8,000.0	7,579.5	19.1	25.0	-2.30	79.3	571.6	1,256.4	1,225.9	30.49	41.213		
9,000.0	8,865.9	8,000.0	7,579.5	19.1	25.0	-2.15	79.3	571.6	1,287.3	1,256.5	30.80	41.794		
9,025.0	8,881.0	8,009.8	7,579.8	19.2	25.0	-2.02	69.5	571.6	1,301.8	1,270.9	30.93	42.084		
9,050.0	8,895.3	8,016.1	7,580.0	19.2	25.0	-1.92	63.2	571.5	1,315.6	1,284.6	31.08	42.333		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.3	0.3	3.0	3.0	-142.31	-142.31	-152.1	-117.5	192.2				
95.0	95.0	95.3	95.3	3.0	3.0	-142.31	-142.31	-152.1	-117.5	192.2	186.2	6.02	31.938	
100.0	100.0	100.3	100.3	3.0	3.0	-142.31	-142.31	-152.1	-117.5	192.2	186.2	6.02	31.922	
190.0	190.0	190.3	190.3	3.1	3.0	-142.31	-142.31	-152.1	-117.5	192.2	186.1	6.13	31.347	
200.0	200.0	200.3	200.3	3.1	3.0	-142.31	-142.31	-152.1	-117.5	192.2	186.1	6.15	31.256	
285.0	285.0	285.3	285.3	3.3	3.0	-142.31	-142.31	-152.1	-117.5	192.2	185.9	6.26	30.715	
300.0	300.0	300.3	300.3	3.3	3.0	-142.31	-142.31	-152.1	-117.5	192.2	185.9	6.28	30.608	
380.0	380.0	380.3	380.3	3.4	3.0	-142.31	-142.31	-152.1	-117.5	192.2	185.8	6.38	30.109	
400.0	400.0	400.3	400.3	3.4	3.0	-142.31	-142.31	-152.1	-117.5	192.2	185.8	6.41	29.976	
475.0	475.0	475.3	475.3	3.5	3.0	-142.31	-142.31	-152.1	-117.5	192.2	185.7	6.51	29.519	
500.0	500.0	500.3	500.3	3.5	3.1	-142.31	-142.31	-152.1	-117.5	192.2	185.7	6.55	29.360	
570.0	570.0	570.3	570.3	3.6	3.1	-142.31	-142.31	-152.1	-117.5	192.2	185.6	6.64	28.942	
600.0	600.0	600.3	600.3	3.6	3.1	-142.31	-142.31	-152.1	-117.5	192.2	185.5	6.68	28.758	
665.0	665.0	665.3	665.3	3.7	3.1	-142.31	-142.31	-152.1	-117.5	192.2	185.4	6.77	28.379	
700.0	700.0	700.3	700.3	3.8	3.1	-142.31	-142.31	-152.1	-117.5	192.2	185.4	6.82	28.171	
760.0	760.0	760.3	760.3	3.8	3.1	-142.31	-142.31	-152.1	-117.5	192.2	185.3	6.91	27.828	
800.0	800.0	800.3	800.3	3.9	3.2	-142.31	-142.31	-152.1	-117.5	192.2	185.2	6.96	27.597	
855.0	855.0	855.3	855.3	4.0	3.2	-142.31	-142.31	-152.1	-117.5	192.2	185.2	7.04	27.290	
900.0	900.0	900.3	900.3	4.0	3.2	-142.31	-142.31	-152.1	-117.5	192.2	185.1	7.11	27.037	
950.0	950.0	950.3	950.3	4.1	3.2	-142.31	-142.31	-152.1	-117.5	192.2	185.0	7.18	26.764	
1,000.0	1,000.0	1,000.3	1,000.3	4.1	3.2	-142.31	-142.31	-152.1	-117.5	192.2	184.9	7.26	26.489	
1,045.0	1,045.0	1,045.3	1,045.3	4.2	3.3	-142.31	-142.31	-152.1	-117.5	192.2	184.9	7.32	26.249	
1,100.0	1,100.0	1,100.3	1,100.3	4.2	3.3	-142.31	-142.31	-152.1	-117.5	192.2	184.8	7.41	25.955	
1,140.0	1,140.0	1,140.3	1,140.3	4.3	3.3	-142.31	-142.31	-152.1	-117.5	192.2	184.7	7.46	25.747	
1,200.0	1,200.0	1,200.3	1,200.3	4.4	3.4	-142.31	-142.31	-152.1	-117.5	192.2	184.6	7.56	25.434	
1,235.0	1,235.0	1,235.3	1,235.3	4.4	3.4	-142.31	-142.31	-152.1	-117.5	192.2	184.6	7.61	25.256	
1,300.0	1,300.0	1,300.3	1,300.3	4.5	3.4	-142.31	-142.31	-152.1	-117.5	192.2	184.5	7.71	24.926	
1,330.0	1,330.0	1,330.3	1,330.3	4.5	3.4	-142.31	-142.31	-152.1	-117.5	192.2	184.4	7.76	24.777	
1,400.0	1,400.0	1,400.3	1,400.3	4.6	3.5	-142.31	-142.31	-152.1	-117.5	192.2	184.3	7.87	24.430	
1,425.0	1,425.0	1,425.3	1,425.3	4.6	3.5	-142.31	-142.31	-152.1	-117.5	192.2	184.3	7.91	24.309	
1,500.0	1,500.0	1,500.3	1,500.3	4.7	3.5	-142.31	-142.31	-152.1	-117.5	192.2	184.2	8.03	23.947 CC, ES	
1,520.0	1,520.0	1,520.3	1,520.3	4.7	3.6	161.03	161.03	-152.1	-117.5	192.3	184.2	8.07	23.836	
1,600.0	1,600.0	1,600.3	1,600.3	4.9	3.6	161.18	161.18	-152.1	-117.5	193.9	185.6	8.27	23.450	
1,615.0	1,615.0	1,615.3	1,615.3	4.9	3.6	161.23	161.23	-152.1	-117.5	194.4	186.1	8.31	23.387	
1,700.0	1,699.8	1,700.1	1,700.1	5.1	3.7	161.64	161.64	-152.1	-117.5	198.8	190.2	8.58	23.177	
1,710.0	1,709.8	1,710.1	1,710.1	5.1	3.7	161.70	161.70	-152.1	-117.5	199.5	190.9	8.61	23.170 SF	
1,800.0	1,799.5	1,799.8	1,799.8	5.3	3.8	162.35	162.35	-152.1	-117.5	207.1	198.2	8.90	23.261	
1,805.0	1,804.4	1,804.7	1,804.7	5.4	3.8	162.39	162.39	-152.1	-117.5	207.6	198.7	8.92	23.273	
1,900.0	1,898.7	1,899.0	1,899.0	5.6	3.9	163.25	163.25	-152.1	-117.5	218.8	209.5	9.25	23.657	
1,995.0	1,992.5	1,992.8	1,992.8	5.9	3.9	164.22	164.22	-152.1	-117.5	233.0	223.4	9.59	24.287	
2,000.0	1,997.5	1,997.8	1,997.8	5.9	3.9	164.27	164.27	-152.1	-117.5	233.8	224.2	9.61	24.327	
2,090.0	2,085.8	2,087.7	2,087.6	6.3	4.1	165.56	165.56	-151.0	-118.3	250.0	240.0	10.01	24.966	
2,100.0	2,095.6	2,097.6	2,097.6	6.3	4.1	165.74	165.74	-150.8	-118.5	251.9	241.8	10.05	25.060	
2,185.0	2,178.5	2,181.7	2,181.6	6.6	4.4	167.54	167.54	-147.4	-120.9	269.6	259.1	10.50	25.685	
2,199.8	2,192.9	2,196.2	2,196.1	6.6	4.4	167.89	167.89	-146.7	-121.5	272.9	262.3	10.58	25.807	
2,280.0	2,270.7	2,274.8	2,274.4	6.9	4.7	169.98	169.98	-141.5	-125.3	291.1	280.1	10.95	26.583	
2,300.0	2,290.1	2,294.3	2,293.8	7.0	4.7	170.52	170.52	-139.9	-126.4	295.6	284.6	11.04	26.768	
2,375.0	2,362.9	2,367.2	2,366.2	7.2	4.9	172.63	172.63	-133.1	-131.4	312.8	301.4	11.40	27.437	
2,400.0	2,387.1	2,391.4	2,390.2	7.3	5.0	173.36	173.36	-130.5	-133.2	318.6	307.0	11.52	27.655	
2,470.0	2,455.0	2,458.8	2,456.9	7.5	5.3	175.44	175.44	-122.5	-139.1	335.0	323.1	11.86	28.247	
2,500.0	2,484.1	2,487.6	2,485.2	7.6	5.4	176.35	176.35	-118.7	-141.9	342.1	330.1	12.00	28.501	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Between	Between	Minimum	Separation	Warning
Measured	Vertical	Measured	Vertical	Reference	Offset	Toolface	+N/-S	+E/-W	Centres	Ellipses	Separation	Factor
Depth	Depth	Depth	Depth	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)	
2,565.0	2,547.2	2,549.4	2,546.1	7.9	5.6	178.34	-109.7	-148.5	357.8	345.5	12.32	29.040
2,600.0	2,581.2	2,582.5	2,578.5	8.0	5.7	179.43	-104.4	-152.3	366.5	354.0	12.49	29.334
2,660.0	2,639.4	2,638.9	2,633.6	8.2	5.9	-178.70	-94.8	-159.3	381.7	368.9	12.79	29.836
2,700.0	2,678.2	2,676.1	2,669.9	8.4	6.1	-177.45	-88.0	-164.3	392.1	379.1	12.99	30.179
2,755.0	2,731.6	2,727.0	2,719.2	8.6	6.2	-175.73	-78.0	-171.6	406.8	393.6	13.24	30.725
2,800.0	2,775.2	2,769.1	2,760.0	8.7	6.4	-174.35	-69.5	-177.8	419.1	405.7	13.45	31.159
2,850.0	2,823.8	2,816.0	2,805.3	8.9	6.5	-172.90	-60.0	-184.8	433.1	419.4	13.70	31.613
2,900.0	2,872.3	2,862.8	2,850.7	9.1	6.7	-171.53	-50.6	-191.7	447.3	433.4	13.97	32.027
2,945.0	2,915.9	2,904.9	2,891.5	9.3	6.8	-170.37	-42.0	-197.9	460.3	446.1	14.21	32.388
3,000.0	2,969.3	2,956.4	2,941.3	9.5	7.0	-169.04	-31.6	-205.5	476.4	461.9	14.51	32.823
3,040.0	3,008.1	2,993.9	2,977.6	9.7	7.1	-168.13	-24.0	-211.0	488.3	473.5	14.74	33.129
3,100.0	3,066.3	3,050.1	3,032.0	10.0	7.4	-166.83	-12.7	-219.3	506.3	491.2	15.08	33.578
3,135.0	3,100.3	3,082.8	3,063.7	10.1	7.5	-166.12	-6.1	-224.2	516.9	501.6	15.28	33.831
3,200.0	3,163.4	3,143.7	3,122.7	10.4	7.7	-164.86	6.3	-233.2	536.8	521.1	15.65	34.289
3,230.0	3,192.5	3,171.8	3,149.9	10.5	7.8	-164.31	11.9	-237.3	546.0	530.2	15.83	34.492
3,300.0	3,260.4	3,237.4	3,213.3	10.8	8.1	-163.10	25.2	-247.0	567.8	551.5	16.24	34.953
3,325.0	3,284.7	3,260.8	3,236.0	10.9	8.2	-162.69	29.9	-250.4	575.6	559.2	16.39	35.112
3,400.0	3,357.4	3,331.0	3,304.0	11.2	8.5	-161.52	44.1	-260.8	599.2	582.4	16.85	35.573
3,420.0	3,376.8	3,349.7	3,322.1	11.3	8.6	-161.22	47.9	-263.6	605.6	588.6	16.97	35.691
3,500.0	3,454.5	3,424.6	3,394.6	11.7	8.9	-160.09	63.1	-274.7	631.1	613.6	17.46	36.150
3,515.0	3,469.0	3,438.7	3,408.2	11.7	8.9	-159.88	65.9	-276.7	635.9	618.3	17.55	36.232
3,600.0	3,551.5	3,518.3	3,485.3	12.1	9.3	-158.79	82.0	-288.5	663.3	645.2	18.08	36.686
3,610.0	3,561.2	3,527.6	3,494.4	12.2	9.3	-158.67	83.9	-289.9	666.5	648.4	18.14	36.737
3,700.0	3,648.5	3,611.9	3,576.0	12.5	9.7	-157.62	100.9	-302.3	695.7	677.0	18.71	37.184
3,705.0	3,653.4	3,616.6	3,580.5	12.6	9.7	-157.56	101.9	-303.0	697.4	678.6	18.74	37.208
3,800.0	3,745.6	3,705.6	3,666.6	13.0	10.1	-156.54	119.9	-316.1	728.4	709.1	19.35	37.646
3,895.0	3,837.7	3,794.5	3,752.7	13.4	10.5	-155.61	137.9	-329.3	759.7	739.7	19.96	38.055
3,900.0	3,842.6	3,799.2	3,757.3	13.4	10.5	-155.56	138.8	-330.0	761.3	741.3	20.00	38.076
3,990.0	3,929.9	3,883.5	3,838.9	13.9	10.9	-154.75	155.9	-342.4	791.1	770.5	20.58	38.437
4,000.0	3,939.6	3,892.9	3,847.9	13.9	10.9	-154.66	157.7	-343.8	794.4	773.8	20.65	38.476
4,019.1	3,958.1	3,910.7	3,865.2	14.0	11.0	-154.50	161.4	-346.4	800.8	780.0	20.77	38.564
4,085.0	4,022.3	3,972.6	3,925.2	14.3	11.3	-154.12	173.9	-355.6	822.1	800.9	21.20	38.781
4,100.0	4,036.9	3,986.8	3,938.9	14.3	11.3	-154.03	176.7	-357.7	826.7	805.4	21.30	38.821
4,180.0	4,115.3	4,062.4	4,012.1	14.7	11.7	-153.53	192.0	-368.9	850.6	828.7	21.84	38.952
4,200.0	4,134.9	4,081.4	4,030.5	14.8	11.8	-153.40	195.9	-371.7	856.3	834.3	21.97	38.970
4,275.0	4,208.9	4,152.9	4,099.7	15.2	12.1	-152.88	210.3	-382.2	876.6	854.1	22.47	39.007
4,300.0	4,233.6	4,176.7	4,122.8	15.3	12.2	-152.70	215.2	-385.7	883.0	860.4	22.64	39.003
4,370.0	4,303.0	4,243.8	4,187.7	15.6	12.5	-152.17	228.7	-395.6	900.1	877.0	23.10	38.969
4,400.0	4,332.8	4,272.6	4,215.6	15.7	12.6	-151.93	234.5	-399.9	907.0	883.7	23.30	38.936
4,465.0	4,397.4	4,335.1	4,276.1	16.0	12.9	-151.39	247.2	-409.1	921.2	897.5	23.71	38.853
4,500.0	4,432.3	4,368.9	4,308.8	16.1	13.1	-151.09	254.0	-414.1	928.3	904.4	23.93	38.788
4,560.0	4,492.2	4,426.8	4,364.8	16.3	13.4	-150.55	265.7	-422.7	939.8	915.5	24.30	38.677
4,600.0	4,532.1	4,465.4	4,402.3	16.5	13.5	-150.17	273.5	-428.4	946.9	922.4	24.54	38.582
4,655.0	4,587.1	4,518.6	4,453.8	16.7	13.8	-149.63	284.3	-436.2	956.1	931.2	24.85	38.474
4,700.0	4,632.1	4,562.2	4,495.9	16.8	14.0	-149.17	293.1	-442.7	963.0	937.9	25.10	38.363
4,718.9	4,651.0	4,580.5	4,513.6	16.8	14.1	-92.31	296.8	-445.4	965.7	940.5	25.17	38.361
4,750.0	4,682.1	4,610.6	4,542.8	16.8	14.2	-91.93	302.9	-449.8	970.2	944.9	25.28	38.371
4,800.0	4,732.1	4,659.0	4,589.7	16.8	14.4	-91.34	312.7	-457.0	977.4	951.9	25.46	38.387
4,845.0	4,777.1	4,702.6	4,631.8	16.9	14.6	-90.81	321.5	-463.4	984.0	958.4	25.63	38.392
4,900.0	4,832.1	4,755.8	4,683.4	16.9	14.9	-90.18	332.3	-471.3	992.2	966.4	25.84	38.398
4,940.0	4,872.1	4,794.5	4,720.9	16.9	15.1	-89.72	340.1	-477.0	998.3	972.3	26.00	38.401

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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)		
5,000.0	4,932.1	4,852.6	4,777.1	16.9	15.3	-89.05	351.8	-485.6	1,007.4	981.2	26.23	38.406	
5,035.0	4,967.1	4,886.5	4,809.9	17.0	15.5	-88.66	358.7	-490.6	1,012.9	986.5	26.37	38.409	
5,100.0	5,032.1	4,949.4	4,870.9	17.0	15.8	-87.95	371.4	-499.9	1,023.0	996.4	26.63	38.413	
5,130.0	5,062.1	4,978.5	4,899.0	17.0	15.9	-87.63	377.3	-504.1	1,027.8	1,001.0	26.75	38.415	
5,200.0	5,132.1	5,046.3	4,964.6	17.0	16.3	-86.89	391.0	-514.2	1,039.0	1,012.0	27.04	38.419	
5,225.0	5,157.1	5,070.5	4,988.0	17.1	16.4	-86.63	395.9	-517.7	1,043.1	1,015.9	27.15	38.420	
5,300.0	5,232.1	5,143.1	5,058.3	17.1	16.7	-85.85	410.6	-528.5	1,055.3	1,027.9	27.47	38.423	
5,320.0	5,252.1	5,162.4	5,077.1	17.1	16.8	-85.65	414.5	-531.3	1,058.6	1,031.1	27.55	38.423	
5,400.0	5,332.1	5,239.9	5,152.0	17.1	17.2	-84.85	430.1	-542.8	1,072.0	1,044.1	27.90	38.425	
5,415.0	5,347.1	5,254.4	5,166.1	17.2	17.3	-84.70	433.1	-544.9	1,074.5	1,046.6	27.96	38.426	
5,500.0	5,432.1	5,336.7	5,245.8	17.2	17.6	-83.88	449.7	-557.1	1,089.0	1,060.6	28.34	38.427	
5,510.0	5,442.1	5,346.4	5,255.1	17.2	17.7	-83.78	451.7	-558.5	1,090.7	1,062.3	28.38	38.427	
5,600.0	5,532.1	5,433.5	5,339.5	17.2	18.1	-82.93	469.3	-571.4	1,106.3	1,077.5	28.79	38.428	
5,605.0	5,537.1	5,438.4	5,344.2	17.3	18.1	-82.89	470.3	-572.1	1,107.1	1,078.3	28.81	38.428	
5,700.0	5,632.1	5,530.3	5,433.2	17.3	18.6	-82.02	488.9	-585.7	1,123.9	1,094.6	29.25	38.427	
5,795.0	5,727.1	5,622.3	5,522.3	17.4	19.0	-81.17	507.5	-599.2	1,140.8	1,111.1	29.69	38.427	
5,800.0	5,732.1	5,627.1	5,527.0	17.4	19.0	-81.13	508.5	-599.9	1,141.7	1,112.0	29.71	38.428	
5,890.0	5,822.1	5,722.3	5,619.1	17.4	19.5	-80.29	527.6	-613.9	1,157.9	1,127.8	30.18	38.363	
5,900.0	5,832.1	5,736.1	5,632.5	17.4	19.6	-80.17	530.3	-615.9	1,159.7	1,129.4	30.26	38.327	
5,985.0	5,917.1	5,854.4	5,748.0	17.5	20.1	-79.30	550.9	-631.0	1,173.2	1,142.3	30.87	38.002	
6,000.0	5,932.1	5,875.4	5,768.7	17.5	20.2	-79.16	554.2	-633.4	1,175.3	1,144.3	30.98	37.942	
6,080.0	6,012.1	5,988.9	5,880.4	17.5	20.8	-78.52	569.7	-644.7	1,185.3	1,153.8	31.51	37.619	
6,100.0	6,032.1	6,017.5	5,908.7	17.5	20.9	-78.39	573.1	-647.1	1,187.5	1,155.8	31.64	37.533	
6,175.0	6,107.1	6,125.3	6,015.8	17.6	21.4	-77.96	583.6	-654.9	1,194.3	1,162.2	32.08	37.230	
6,200.0	6,132.1	6,161.5	6,051.8	17.6	21.5	-77.85	586.5	-656.9	1,196.1	1,163.9	32.21	37.129	
6,270.0	6,202.1	6,263.1	6,153.2	17.6	21.9	-77.62	592.4	-661.3	1,199.9	1,167.3	32.56	36.850	
6,300.0	6,232.1	6,306.8	6,196.8	17.6	22.1	-77.55	594.1	-662.5	1,200.9	1,168.2	32.69	36.732	
6,365.0	6,297.1	6,401.7	6,291.6	17.7	22.4	-77.48	595.8	-663.8	1,202.1	1,169.1	32.92	36.514	
6,400.0	6,332.1	6,442.5	6,332.4	17.7	22.4	-77.48	595.9	-663.8	1,202.1	1,169.1	32.96	36.474	
6,460.0	6,392.1	6,502.5	6,392.4	17.7	22.4	-77.48	595.9	-663.8	1,202.1	1,169.1	33.02	36.406	
6,500.0	6,432.1	6,542.5	6,432.4	17.7	22.4	-77.48	595.9	-663.8	1,202.1	1,169.0	33.06	36.356	
6,555.0	6,487.1	6,597.5	6,487.4	17.8	22.4	-77.48	595.9	-663.8	1,202.1	1,169.0	33.13	36.288	
6,600.0	6,532.1	6,642.5	6,532.4	17.8	22.5	-77.48	595.9	-663.8	1,202.1	1,168.9	33.18	36.232	
6,650.0	6,582.1	6,692.5	6,582.4	17.8	22.5	-77.48	595.9	-663.8	1,202.1	1,168.8	33.23	36.170	
6,700.0	6,632.1	6,742.5	6,632.4	17.8	22.5	-77.48	595.9	-663.8	1,202.1	1,168.8	33.29	36.108	
6,745.0	6,677.1	6,787.5	6,677.4	17.9	22.5	-77.48	595.9	-663.8	1,202.1	1,168.7	33.34	36.053	
6,800.0	6,732.1	6,842.5	6,732.4	17.9	22.6	-77.48	595.9	-663.8	1,202.1	1,168.7	33.41	35.985	
6,840.0	6,772.1	6,882.5	6,772.4	17.9	22.6	-77.48	595.9	-663.8	1,202.1	1,168.6	33.45	35.936	
6,900.0	6,832.1	6,942.5	6,832.4	17.9	22.6	-77.48	595.9	-663.8	1,202.1	1,168.6	33.52	35.862	
6,935.0	6,867.1	6,977.5	6,867.4	18.0	22.6	-77.48	595.9	-663.8	1,202.1	1,168.5	33.56	35.819	
7,000.0	6,932.1	7,042.5	6,932.4	18.0	22.6	-77.48	595.9	-663.8	1,202.1	1,168.4	33.63	35.742	
7,030.0	6,962.1	7,072.5	6,962.4	18.0	22.7	-77.48	595.9	-663.8	1,202.1	1,168.4	33.67	35.706	
7,100.0	7,032.1	7,180.3	7,069.9	18.1	22.7	-77.79	589.2	-663.9	1,201.3	1,167.7	33.64	35.715	
7,125.0	7,057.1	7,223.3	7,112.1	18.1	22.8	-78.17	581.2	-663.9	1,200.3	1,166.8	33.59	35.739	
7,200.0	7,132.1	7,342.1	7,224.3	18.1	22.9	-79.99	542.6	-664.2	1,195.6	1,162.2	33.39	35.811	
7,220.0	7,152.1	7,370.7	7,249.9	18.1	22.9	-80.59	529.9	-664.3	1,194.0	1,160.7	33.33	35.825	
7,300.0	7,232.1	7,470.9	7,334.1	18.2	23.0	-83.18	475.8	-664.8	1,187.2	1,154.1	33.12	35.845	
7,315.0	7,247.1	7,487.2	7,346.8	18.2	23.0	-83.67	465.6	-664.8	1,185.9	1,152.8	33.09	35.843	
7,400.0	7,332.1	7,566.7	7,404.5	18.2	23.1	-86.31	411.0	-665.3	1,179.6	1,146.7	32.93	35.826	
7,410.0	7,342.1	7,574.7	7,409.9	18.2	23.1	-86.60	405.1	-665.3	1,179.0	1,146.1	32.91	35.825	
7,500.0	7,432.1	7,637.1	7,448.9	18.3	23.1	-88.97	356.5	-665.7	1,175.7	1,142.9	32.79	35.854	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		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)			
7,505.0	7,437.1	7,640.1	7,450.6	18.3	23.1	-89.09	354.0	-665.7	1,175.6	1,142.9	32.79	35.859		
7,524.8	7,456.9	7,651.5	7,457.2	18.3	23.1	-89.55	344.6	-665.8	1,175.5	1,142.8	32.76	35.880		
7,600.0	7,532.1	7,689.6	7,477.5	18.3	23.2	-91.11	312.5	-666.1	1,177.3	1,144.6	32.68	36.024		
7,695.0	7,627.1	7,727.8	7,495.7	18.4	23.2	-92.75	278.9	-666.3	1,184.7	1,152.2	32.57	36.372		
7,700.0	7,632.1	7,729.5	7,496.4	18.4	23.2	-92.82	277.3	-666.3	1,185.3	1,152.7	32.57	36.396		
7,790.0	7,722.1	7,757.9	7,508.4	18.4	23.2	-94.07	251.5	-666.5	1,198.5	1,166.0	32.45	36.932		
7,800.0	7,732.1	7,760.7	7,509.5	18.4	23.2	-94.20	249.0	-666.6	1,200.3	1,167.9	32.44	37.004		
7,885.0	7,817.1	7,782.2	7,517.6	18.5	23.2	-95.16	229.1	-666.7	1,218.7	1,186.3	32.32	37.712		
7,900.0	7,832.1	7,785.6	7,518.9	18.5	23.2	-95.31	225.9	-666.7	1,222.4	1,190.1	32.29	37.855		
7,980.0	7,912.1	7,800.0	7,523.8	18.6	23.2	-95.96	212.4	-666.8	1,245.2	1,213.0	32.18	38.696		
8,000.0	7,932.1	7,800.0	7,523.8	18.6	23.2	-95.96	212.4	-666.8	1,251.5	1,219.4	32.16	38.912		
8,075.0	8,007.1	7,818.7	7,529.7	18.6	23.3	-96.82	194.6	-667.0	1,277.7	1,245.7	32.02	39.905		
8,100.0	8,032.1	7,822.6	7,530.8	18.6	23.3	-97.00	190.9	-667.0	1,287.3	1,255.3	31.98	40.252		
8,170.0	8,102.1	7,832.7	7,533.7	18.7	23.3	-97.46	181.2	-667.1	1,316.1	1,284.2	31.88	41.286		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Factor	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)			
0.0	0.0	0.0	0.0	3.0	3.0	-149.96	-151.5	-87.6	175.0					
95.0	95.0	94.9	94.9	3.0	3.0	-149.96	-151.5	-87.6	175.0	169.0	6.02	29.080		
100.0	100.0	99.9	99.9	3.0	3.0	-149.96	-151.5	-87.6	175.0	169.0	6.02	29.066		
190.0	190.0	189.9	189.9	3.1	3.0	-149.96	-151.5	-87.6	175.0	168.9	6.13	28.539		
200.0	200.0	199.9	199.9	3.1	3.0	-149.96	-151.5	-87.6	175.0	168.9	6.15	28.455		
285.0	285.0	284.9	284.9	3.3	3.0	-149.96	-151.5	-87.6	175.0	168.7	6.26	27.956		
300.0	300.0	299.9	299.9	3.3	3.0	-149.96	-151.5	-87.6	175.0	168.7	6.28	27.857		
380.0	380.0	379.9	379.9	3.4	3.0	-149.96	-151.5	-87.6	175.0	168.6	6.39	27.395		
400.0	400.0	399.9	399.9	3.4	3.0	-149.96	-151.5	-87.6	175.0	168.6	6.42	27.271		
475.0	475.0	474.9	474.9	3.5	3.0	-149.96	-151.5	-87.6	175.0	168.5	6.52	26.845		
500.0	500.0	499.9	499.9	3.5	3.1	-149.96	-151.5	-87.6	175.0	168.4	6.56	26.697		
570.0	570.0	569.9	569.9	3.6	3.1	-149.96	-151.5	-87.6	175.0	168.4	6.65	26.306		
600.0	600.0	599.9	599.9	3.6	3.1	-149.96	-151.5	-87.6	175.0	168.3	6.70	26.134		
665.0	665.0	664.9	664.9	3.7	3.1	-149.96	-151.5	-87.6	175.0	168.2	6.79	25.778		
700.0	700.0	699.9	699.9	3.8	3.1	-149.96	-151.5	-87.6	175.0	168.2	6.84	25.582		
760.0	760.0	759.9	759.9	3.8	3.1	-149.96	-151.5	-87.6	175.0	168.1	6.93	25.259		
800.0	800.0	799.9	799.9	3.9	3.2	-149.96	-151.5	-87.6	175.0	168.0	6.99	25.042		
855.0	855.0	854.9	854.9	4.0	3.2	-149.96	-151.5	-87.6	175.0	167.9	7.07	24.752		
900.0	900.0	899.9	899.9	4.0	3.2	-149.96	-151.5	-87.6	175.0	167.9	7.14	24.513		
950.0	950.0	949.9	949.9	4.1	3.2	-149.96	-151.5	-87.6	175.0	167.8	7.22	24.255		
1,000.0	1,000.0	999.9	999.9	4.1	3.2	-149.96	-151.5	-87.6	175.0	167.7	7.29	23.996		
1,045.0	1,045.0	1,044.9	1,044.9	4.2	3.3	-149.96	-151.5	-87.6	175.0	167.6	7.36	23.768		
1,100.0	1,100.0	1,099.9	1,099.9	4.2	3.3	-149.96	-151.5	-87.6	175.0	167.6	7.45	23.490		
1,140.0	1,140.0	1,139.9	1,139.9	4.3	3.3	-149.96	-151.5	-87.6	175.0	167.5	7.51	23.293		
1,200.0	1,200.0	1,199.9	1,199.9	4.4	3.4	-149.96	-151.5	-87.6	175.0	167.4	7.61	22.997		
1,235.0	1,235.0	1,234.9	1,234.9	4.4	3.4	-149.96	-151.5	-87.6	175.0	167.3	7.67	22.828		
1,300.0	1,300.0	1,299.9	1,299.9	4.5	3.4	-149.96	-151.5	-87.6	175.0	167.2	7.77	22.515		
1,330.0	1,330.0	1,329.9	1,329.9	4.5	3.4	-149.96	-151.5	-87.6	175.0	167.2	7.82	22.374		
1,400.0	1,400.0	1,399.9	1,399.9	4.6	3.5	-149.96	-151.5	-87.6	175.0	167.1	7.94	22.046		
1,425.0	1,425.0	1,424.9	1,424.9	4.6	3.5	-149.96	-151.5	-87.6	175.0	167.0	7.98	21.931		
1,500.0	1,500.0	1,499.9	1,499.9	4.7	3.5	-149.96	-151.5	-87.6	175.0	166.9	8.11	21.589 CC, ES		
1,520.0	1,520.0	1,519.9	1,519.9	4.7	3.6	153.39	-151.5	-87.6	175.1	166.9	8.15	21.489		
1,600.0	1,600.0	1,599.9	1,599.9	4.9	3.6	153.62	-151.5	-87.6	176.6	168.2	8.34	21.164		
1,615.0	1,615.0	1,614.9	1,614.9	4.9	3.6	153.69	-151.5	-87.6	177.1	168.7	8.39	21.112		
1,700.0	1,699.8	1,699.7	1,699.7	5.1	3.7	154.31	-151.5	-87.6	181.3	172.6	8.65	20.963		
1,710.0	1,709.8	1,709.7	1,709.7	5.1	3.7	154.40	-151.5	-87.6	181.9	173.2	8.68	20.963		
1,800.0	1,799.5	1,799.4	1,799.4	5.3	3.8	155.39	-151.5	-87.6	189.2	180.2	8.96	21.102		
1,805.0	1,804.4	1,804.3	1,804.3	5.4	3.8	155.45	-151.5	-87.6	189.6	180.7	8.98	21.117		
1,900.0	1,898.7	1,898.6	1,898.6	5.6	3.9	156.75	-151.5	-87.6	200.3	191.0	9.30	21.540		
1,995.0	1,992.5	1,992.4	1,992.4	5.9	3.9	158.21	-151.5	-87.6	214.0	204.4	9.64	22.203		
2,000.0	1,997.5	1,997.4	1,997.4	5.9	3.9	158.29	-151.5	-87.6	214.8	205.1	9.66	22.245		
2,090.0	2,085.8	2,091.6	2,091.6	6.3	4.2	160.06	-150.0	-87.6	229.6	219.5	10.12	22.683		
2,100.0	2,095.6	2,102.1	2,102.1	6.3	4.2	160.29	-149.7	-87.6	231.3	221.1	10.18	22.729		
2,185.0	2,178.5	2,191.3	2,191.1	6.6	4.5	162.42	-145.1	-87.6	245.9	235.2	10.70	22.985		
2,199.8	2,192.9	2,206.8	2,206.6	6.6	4.5	162.83	-144.0	-87.6	248.5	237.7	10.79	23.031		
2,280.0	2,270.7	2,291.0	2,290.5	6.9	4.8	165.18	-136.7	-87.5	262.0	250.7	11.24	23.307		
2,300.0	2,290.1	2,312.0	2,311.4	7.0	4.9	165.79	-134.5	-87.5	265.1	253.8	11.35	23.352		
2,375.0	2,362.9	2,390.9	2,389.6	7.2	5.1	168.13	-124.9	-87.5	276.3	264.5	11.78	23.442		
2,400.0	2,387.1	2,417.2	2,415.7	7.3	5.2	168.94	-121.2	-87.5	279.7	267.8	11.93	23.452		
2,470.0	2,455.0	2,490.8	2,488.4	7.5	5.5	171.27	-109.6	-87.4	288.9	276.6	12.34	23.419		
2,500.0	2,484.1	2,522.3	2,519.4	7.6	5.6	172.31	-104.0	-87.4	292.6	280.1	12.49	23.420		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
2,565.0	2,547.2	2,589.4	2,585.3	7.9	5.7	174.59	-91.1	-87.3	300.2	287.3	12.81	23.436		
2,600.0	2,581.2	2,623.6	2,618.8	8.0	5.8	175.74	-84.3	-87.3	304.3	291.3	12.98	23.439		
2,660.0	2,639.4	2,682.3	2,676.3	8.2	6.0	177.64	-72.6	-87.2	311.6	298.3	13.30	23.419		
2,700.0	2,678.2	2,721.4	2,714.6	8.4	6.1	178.87	-64.8	-87.2	316.6	303.1	13.52	23.422		
2,755.0	2,731.6	2,775.2	2,767.3	8.6	6.3	-179.52	-54.1	-87.1	323.8	310.0	13.82	23.438		
2,800.0	2,775.2	2,819.1	2,810.4	8.7	6.5	-178.24	-45.3	-87.1	329.9	315.8	14.06	23.467		
2,850.0	2,823.8	2,868.0	2,858.3	8.9	6.6	-176.88	-35.5	-87.0	336.8	322.5	14.33	23.509		
2,900.0	2,872.3	2,916.9	2,906.2	9.1	6.8	-175.58	-25.8	-87.0	343.9	329.3	14.60	23.565		
2,945.0	2,915.9	2,960.9	2,949.3	9.3	7.0	-174.44	-17.0	-86.9	350.5	335.7	14.84	23.623		
3,000.0	2,969.3	3,014.7	3,002.0	9.5	7.2	-173.12	-6.3	-86.9	358.7	343.5	15.13	23.707		
3,040.0	3,008.1	3,053.8	3,040.3	9.7	7.3	-172.19	1.5	-86.9	364.7	349.4	15.34	23.773		
3,100.0	3,066.3	3,112.4	3,097.8	10.0	7.5	-170.85	13.2	-86.8	374.0	358.4	15.66	23.884		
3,135.0	3,100.3	3,146.6	3,131.3	10.1	7.7	-170.10	20.0	-86.8	379.5	363.7	15.84	23.953		
3,200.0	3,163.4	3,210.2	3,193.5	10.4	7.9	-168.77	32.7	-86.7	389.9	373.7	16.19	24.090		
3,230.0	3,192.5	3,239.5	3,222.3	10.5	8.0	-168.17	38.5	-86.7	394.8	378.4	16.34	24.156		
3,300.0	3,260.4	3,307.9	3,289.3	10.8	8.3	-166.84	52.2	-86.6	406.3	389.5	16.71	24.317		
3,325.0	3,284.7	3,332.3	3,313.3	10.9	8.4	-166.39	57.1	-86.6	410.4	393.6	16.84	24.377		
3,400.0	3,357.4	3,405.7	3,385.1	11.2	8.7	-165.07	71.7	-86.5	423.0	405.8	17.22	24.561		
3,420.0	3,376.8	3,425.2	3,404.3	11.3	8.8	-164.73	75.6	-86.5	426.4	409.1	17.33	24.611		
3,500.0	3,454.5	3,503.4	3,480.9	11.7	9.1	-163.43	91.2	-86.4	440.2	422.4	17.74	24.817		
3,515.0	3,469.0	3,518.1	3,495.3	11.7	9.1	-163.19	94.1	-86.4	442.8	425.0	17.81	24.856		
3,600.0	3,551.5	3,601.2	3,576.7	12.1	9.5	-161.91	110.7	-86.3	457.6	439.4	18.25	25.080		
3,610.0	3,561.2	3,610.9	3,586.3	12.2	9.5	-161.76	112.6	-86.3	459.4	441.1	18.30	25.107		
3,700.0	3,648.5	3,698.9	3,672.5	12.5	9.9	-160.50	130.2	-86.2	475.4	456.6	18.75	25.348		
3,705.0	3,653.4	3,703.8	3,677.3	12.6	9.9	-160.43	131.1	-86.2	476.3	457.5	18.78	25.361		
3,800.0	3,745.6	3,796.7	3,768.3	13.0	10.3	-159.19	149.7	-86.1	493.4	474.2	19.26	25.618		
3,895.0	3,837.7	3,889.5	3,859.3	13.4	10.7	-158.04	168.2	-86.0	510.8	491.0	19.74	25.875		
3,900.0	3,842.6	3,894.4	3,864.1	13.4	10.7	-157.98	169.2	-86.0	511.7	491.9	19.77	25.888		
3,990.0	3,929.9	3,982.4	3,950.3	13.9	11.1	-156.95	186.7	-86.0	528.3	508.1	20.22	26.130		
4,000.0	3,939.6	3,992.2	3,959.8	13.9	11.1	-156.84	188.7	-86.0	530.2	509.9	20.27	26.157		
4,019.1	3,958.1	4,010.8	3,978.1	14.0	11.2	-156.64	192.4	-85.9	533.7	513.3	20.36	26.218		
4,085.0	4,022.3	4,075.4	4,041.4	14.3	11.5	-156.00	205.2	-85.9	545.3	524.6	20.68	26.367		
4,100.0	4,036.9	4,090.1	4,055.8	14.3	11.6	-155.85	208.2	-85.9	547.8	527.0	20.76	26.393		
4,180.0	4,115.3	4,168.6	4,132.8	14.7	11.9	-155.02	223.8	-85.8	559.8	538.7	21.15	26.471		
4,200.0	4,134.9	4,188.3	4,152.0	14.8	12.0	-154.80	227.8	-85.8	562.5	541.3	21.25	26.478		
4,275.0	4,208.9	4,262.1	4,224.4	15.2	12.3	-153.93	242.5	-85.7	571.7	550.1	21.59	26.485		
4,300.0	4,233.6	4,286.8	4,248.5	15.3	12.4	-153.63	247.4	-85.7	574.4	552.7	21.70	26.474		
4,370.0	4,303.0	4,355.8	4,316.2	15.6	12.7	-152.73	261.2	-85.6	581.1	559.1	21.99	26.428		
4,400.0	4,332.8	4,385.4	4,345.1	15.7	12.9	-152.33	267.1	-85.6	583.5	561.4	22.11	26.394		
4,465.0	4,397.4	4,449.5	4,407.9	16.0	13.1	-151.42	279.9	-85.5	588.0	565.6	22.35	26.313		
4,500.0	4,432.3	4,484.0	4,441.8	16.1	13.3	-150.90	286.7	-85.5	589.9	567.4	22.47	26.254		
4,560.0	4,492.2	4,543.1	4,499.7	16.3	13.6	-149.97	298.5	-85.4	592.5	569.8	22.65	26.153		
4,600.0	4,532.1	4,582.4	4,538.2	16.5	13.7	-149.31	306.4	-85.4	593.7	570.9	22.77	26.070		
4,655.0	4,587.1	4,636.5	4,591.2	16.7	14.0	-148.37	317.2	-85.3	594.7	571.8	22.90	25.973		
4,700.0	4,632.1	4,680.6	4,634.5	16.8	14.2	-147.56	326.0	-85.3	595.0	572.0	22.99	25.876		
4,718.9	4,651.0	4,699.2	4,652.6	16.8	14.3	-90.54	329.7	-85.3	595.0	572.0	23.00	25.868		
4,750.0	4,682.1	4,729.7	4,682.5	16.8	14.4	-89.96	335.7	-85.2	594.9	571.9	23.00	25.866		
4,762.5	4,694.6	4,741.9	4,694.5	16.8	14.4	-89.72	338.2	-85.2	594.9	571.9	23.00	25.866		
4,800.0	4,732.1	4,778.6	4,730.5	16.8	14.6	-89.02	345.5	-85.2	595.0	572.0	23.00	25.865		
4,845.0	4,777.1	4,822.7	4,773.7	16.9	14.8	-88.17	354.3	-85.1	595.2	572.1	23.01	25.861		
4,900.0	4,832.1	4,876.6	4,826.5	16.9	15.0	-87.14	365.1	-85.1	595.6	572.5	23.03	25.857		

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,940.0	4,872.1	4,915.8	4,865.0	16.9	15.2	-86.39	372.9	-85.1	596.0	572.9	23.05	25.855		
5,000.0	4,932.1	4,974.6	4,922.6	16.9	15.5	-85.26	384.6	-85.0	596.8	573.7	23.08	25.853		
5,035.0	4,967.1	5,008.9	4,956.2	17.0	15.6	-84.61	391.4	-85.0	597.4	574.3	23.11	25.852		
5,100.0	5,032.1	5,072.6	5,018.6	17.0	15.9	-83.40	404.1	-84.9	598.7	575.6	23.16	25.851		
5,130.0	5,062.1	5,102.0	5,047.4	17.0	16.1	-82.84	410.0	-84.9	599.4	576.2	23.19	25.849		
5,200.0	5,132.1	5,170.6	5,114.6	17.0	16.4	-81.54	423.7	-84.8	601.3	578.0	23.27	25.845		
5,225.0	5,157.1	5,195.1	5,138.6	17.1	16.5	-81.08	428.6	-84.8	602.0	578.7	23.30	25.843		
5,300.0	5,232.1	5,268.6	5,210.6	17.1	16.8	-79.71	443.2	-84.7	604.5	581.1	23.40	25.834		
5,320.0	5,252.1	5,288.2	5,229.8	17.1	16.9	-79.34	447.1	-84.7	605.2	581.8	23.43	25.830		
5,400.0	5,332.1	5,366.6	5,306.7	17.1	17.3	-77.89	462.8	-84.6	608.4	584.8	23.57	25.814		
5,415.0	5,347.1	5,381.3	5,321.1	17.2	17.3	-77.62	465.7	-84.6	609.0	585.4	23.59	25.811		
5,500.0	5,432.1	5,464.6	5,402.7	17.2	17.7	-76.10	482.3	-84.5	612.8	589.1	23.77	25.786		
5,510.0	5,442.1	5,474.4	5,412.3	17.2	17.8	-75.93	484.3	-84.5	613.3	589.5	23.79	25.782		
5,600.0	5,532.1	5,562.6	5,498.7	17.2	18.2	-74.34	501.9	-84.4	617.9	593.9	24.00	25.747		
5,605.0	5,537.1	5,567.5	5,503.5	17.3	18.2	-74.25	502.8	-84.4	618.2	594.2	24.01	25.745		
5,700.0	5,632.1	5,660.6	5,594.7	17.3	18.6	-72.60	521.4	-84.3	623.6	599.4	24.27	25.698		
5,795.0	5,727.1	5,753.7	5,685.9	17.4	19.0	-70.99	540.0	-84.2	629.6	605.0	24.55	25.643		
5,800.0	5,732.1	5,758.6	5,690.7	17.4	19.1	-70.90	540.9	-84.2	629.9	605.3	24.57	25.640		
5,890.0	5,822.1	5,848.8	5,779.2	17.4	19.5	-69.37	558.8	-84.2	636.0	611.1	24.86	25.587		
5,900.0	5,832.1	5,859.5	5,789.7	17.4	19.5	-69.20	560.8	-84.1	636.6	611.8	24.89	25.578		
5,985.0	5,917.1	5,950.6	5,879.5	17.5	19.9	-67.90	576.5	-84.1	642.0	616.8	25.21	25.470		
6,000.0	5,932.1	5,966.8	5,895.5	17.5	20.0	-67.69	578.9	-84.1	642.8	617.6	25.26	25.446		
6,080.0	6,012.1	6,053.7	5,981.5	17.5	20.4	-66.73	590.6	-84.0	647.0	621.4	25.56	25.314		
6,100.0	6,032.1	6,075.5	6,003.2	17.5	20.5	-66.52	593.2	-84.0	647.9	622.3	25.63	25.279		
6,175.0	6,107.1	6,157.6	6,084.9	17.6	20.8	-65.87	601.2	-83.9	650.9	625.0	25.89	25.141		
6,200.0	6,132.1	6,185.0	6,112.3	17.6	20.9	-65.70	603.4	-83.9	651.7	625.7	25.97	25.092		
6,270.0	6,202.1	6,262.1	6,189.2	17.6	21.2	-65.32	608.1	-83.9	653.4	627.2	26.18	24.956		
6,300.0	6,232.1	6,295.2	6,222.3	17.6	21.3	-65.21	609.5	-83.9	653.9	627.7	26.27	24.894		
6,365.0	6,297.1	6,367.0	6,294.1	17.7	21.5	-65.08	611.1	-83.9	654.6	628.2	26.41	24.786		
6,400.0	6,332.1	6,405.0	6,332.0	17.7	21.6	-65.06	611.3	-83.9	654.6	628.2	26.47	24.729		
6,460.0	6,392.1	6,465.0	6,392.0	17.7	21.6	-65.06	611.3	-83.9	654.6	628.1	26.56	24.649		
6,500.0	6,432.1	6,505.0	6,432.0	17.7	21.6	-65.06	611.3	-83.9	654.6	628.0	26.61	24.597		
6,555.0	6,487.1	6,560.0	6,487.0	17.8	21.6	-65.06	611.3	-83.9	654.6	627.9	26.69	24.525		
6,600.0	6,532.1	6,605.0	6,532.0	17.8	21.6	-65.06	611.3	-83.9	654.6	627.9	26.76	24.466		
6,650.0	6,582.1	6,655.0	6,582.0	17.8	21.7	-65.06	611.3	-83.9	654.6	627.8	26.83	24.401		
6,700.0	6,632.1	6,705.0	6,632.0	17.8	21.7	-65.06	611.3	-83.9	654.6	627.7	26.90	24.336		
6,745.0	6,677.1	6,750.0	6,677.0	17.9	21.7	-65.06	611.3	-83.9	654.6	627.7	26.96	24.278		
6,800.0	6,732.1	6,805.0	6,732.0	17.9	21.7	-65.06	611.3	-83.9	654.6	627.6	27.04	24.208		
6,840.0	6,772.1	6,845.0	6,772.0	17.9	21.8	-65.06	611.3	-83.9	654.6	627.5	27.10	24.157		
6,900.0	6,832.1	6,905.0	6,832.0	17.9	21.8	-65.06	611.3	-83.9	654.6	627.4	27.18	24.081		
6,935.0	6,867.1	6,940.0	6,867.0	18.0	21.8	-65.06	611.3	-83.9	654.6	627.4	27.24	24.036		
7,000.0	6,932.1	7,005.0	6,932.0	18.0	21.8	-65.06	611.3	-83.9	654.6	627.3	27.33	23.954		
7,030.0	6,962.1	7,035.0	6,962.0	18.0	21.9	-65.06	611.3	-83.9	654.6	627.3	27.37	23.917		
7,100.0	7,032.1	7,105.0	7,032.0	18.1	21.9	-65.06	611.3	-83.9	654.6	627.2	27.47	23.829		
7,125.0	7,057.1	7,130.0	7,057.0	18.1	21.9	-65.06	611.3	-83.9	654.6	627.1	27.51	23.798		
7,200.0	7,132.1	7,205.0	7,132.0	18.1	21.9	-65.06	611.3	-83.9	654.6	627.0	27.62	23.705		
7,220.0	7,152.1	7,225.0	7,152.0	18.1	21.9	-65.06	611.3	-83.9	654.6	627.0	27.64	23.681		
7,300.0	7,232.1	7,305.0	7,232.0	18.2	22.0	-65.06	611.3	-83.9	654.6	626.9	27.76	23.583		
7,315.0	7,247.1	7,320.0	7,247.0	18.2	22.0	-65.06	611.3	-83.9	654.6	626.8	27.78	23.564		
7,400.0	7,332.1	7,405.0	7,332.0	18.2	22.0	-65.06	611.3	-83.9	654.6	626.7	27.90	23.462		
7,410.0	7,342.1	7,415.0	7,342.0	18.2	22.0	-65.06	611.3	-83.9	654.6	626.7	27.91	23.453		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,500.0	7,432.1	7,545.6	7,472.4	18.3	22.1	-65.59	604.8	-84.0	653.2	625.3	27.92	23.391	
7,505.0	7,437.1	7,554.9	7,481.5	18.3	22.1	-65.70	603.3	-84.0	652.9	625.0	27.92	23.386	
7,600.0	7,532.1	7,717.2	7,635.6	18.3	22.3	-69.78	554.1	-84.4	641.5	613.8	27.67	23.181	
7,695.0	7,627.1	7,845.2	7,743.6	18.4	22.5	-75.78	486.0	-84.9	624.4	596.8	27.55	22.663	
7,700.0	7,632.1	7,850.9	7,748.1	18.4	22.5	-76.10	482.4	-84.9	623.5	595.9	27.55	22.629	
7,790.0	7,722.1	7,939.8	7,812.4	18.4	22.6	-81.79	421.2	-85.4	608.0	580.4	27.64	21.998	
7,800.0	7,732.1	7,948.1	7,817.9	18.4	22.6	-82.38	414.9	-85.5	606.6	578.9	27.66	21.932	
7,885.0	7,817.1	8,009.1	7,855.4	18.5	22.7	-86.96	366.9	-85.8	597.6	569.8	27.82	21.481	
7,900.0	7,832.1	8,018.2	7,860.6	18.5	22.7	-87.68	359.4	-85.9	596.8	568.9	27.85	21.428	
7,941.1	7,873.2	8,041.3	7,873.1	18.5	22.7	-89.54	340.0	-86.1	595.8	567.9	27.92	21.337	
7,980.0	7,912.1	8,060.6	7,883.0	18.6	22.7	-91.14	323.4	-86.2	596.7	568.7	27.98	21.325	
8,000.0	7,932.1	8,069.8	7,887.5	18.6	22.7	-91.91	315.5	-86.3	597.9	569.9	28.01	21.348	
8,075.0	8,007.1	8,100.0	7,901.4	18.6	22.7	-94.48	288.6	-86.5	607.2	579.2	28.08	21.625	
8,100.0	8,032.1	8,108.7	7,905.2	18.6	22.7	-95.22	280.8	-86.5	612.0	583.9	28.10	21.783	
8,170.0	8,102.1	8,130.5	7,914.0	18.7	22.8	-97.12	260.8	-86.7	629.7	601.6	28.12	22.392	
8,200.0	8,132.1	8,138.8	7,917.2	18.7	22.8	-97.84	253.2	-86.7	639.2	611.1	28.13	22.725	
8,265.0	8,197.1	8,150.0	7,921.3	18.7	22.8	-98.82	242.8	-86.8	663.6	635.6	28.09	23.627	
8,300.0	8,232.1	8,162.7	7,925.7	18.7	22.8	-99.93	230.8	-86.9	678.7	650.6	28.15	24.112	
8,360.0	8,292.1	8,174.8	7,929.7	18.8	22.8	-100.99	219.4	-87.0	707.7	679.5	28.17	25.120	
8,400.0	8,332.1	8,182.1	7,931.9	18.8	22.8	-101.63	212.4	-87.1	728.9	700.7	28.19	25.853	
8,455.0	8,387.1	8,200.0	7,937.1	18.8	22.8	-103.20	195.3	-87.2	760.5	732.3	28.20	26.971	
8,485.9	8,418.0	8,200.0	7,937.1	18.8	22.8	-103.20	195.3	-87.2	779.2	751.1	28.11	27.718	
8,500.0	8,432.1	8,200.0	7,937.1	18.8	22.8	80.85	195.3	-87.2	787.9	759.8	28.10	28.039	
8,550.0	8,482.0	8,200.0	7,937.1	18.9	22.8	76.79	195.3	-87.2	819.8	791.7	28.08	29.200	
8,600.0	8,531.4	8,216.7	7,941.4	18.9	22.8	71.35	179.2	-87.3	852.4	824.2	28.18	30.252	
8,645.0	8,575.1	8,226.6	7,943.8	18.9	22.8	66.98	169.6	-87.4	882.1	853.8	28.23	31.244	
8,650.0	8,579.9	8,227.7	7,944.0	18.9	22.8	66.50	168.5	-87.4	885.4	857.1	28.24	31.354	
8,700.0	8,627.2	8,250.0	7,948.7	18.9	22.8	61.24	146.7	-87.6	918.4	890.1	28.37	32.372	
8,740.0	8,663.9	8,250.0	7,948.7	18.9	22.8	58.29	146.7	-87.6	944.4	916.0	28.39	33.268	
8,750.0	8,672.9	8,250.0	7,948.7	19.0	22.8	57.57	146.7	-87.6	950.9	922.5	28.40	33.487	
8,800.0	8,716.6	8,265.9	7,951.5	19.0	22.8	53.44	131.1	-87.7	982.8	954.3	28.52	34.461	
8,835.0	8,745.9	8,275.7	7,953.0	19.0	22.8	50.86	121.4	-87.8	1,004.6	976.0	28.61	35.115	
8,850.0	8,758.1	8,280.0	7,953.6	19.0	22.8	49.82	117.1	-87.8	1,013.7	985.1	28.65	35.385	
8,900.0	8,797.0	8,300.0	7,956.0	19.1	22.8	46.44	97.3	-88.0	1,043.6	1,014.8	28.81	36.218	
8,930.0	8,819.0	8,300.0	7,956.0	19.1	22.8	44.94	97.3	-88.0	1,060.8	1,031.9	28.89	36.722	
8,950.0	8,833.0	8,300.0	7,956.0	19.1	22.8	43.98	97.3	-88.0	1,072.1	1,043.1	28.94	37.040	
9,000.0	8,865.9	8,325.3	7,958.0	19.1	22.8	41.28	72.1	-88.2	1,098.8	1,069.6	29.15	37.690	
9,025.0	8,881.0	8,333.2	7,958.4	19.2	22.8	40.17	64.2	-88.2	1,111.6	1,082.3	29.25	37.998	
9,050.0	8,895.3	8,350.0	7,958.9	19.2	22.8	39.01	47.4	-88.4	1,124.0	1,094.6	29.37	38.269	
9,100.0	8,921.1	8,358.7	7,959.0	19.2	22.8	37.28	38.7	-88.5	1,147.2	1,117.6	29.57	38.795	
9,120.0	8,930.4	8,372.8	7,959.0	19.3	22.8	36.55	24.6	-88.6	1,155.9	1,126.2	29.66	38.975	
9,150.0	8,943.1	8,399.8	7,959.0	19.3	22.8	35.53	-2.5	-88.8	1,168.0	1,138.2	29.79	39.211	
9,200.0	8,961.1	8,446.2	7,959.0	19.3	22.8	34.15	-48.9	-89.1	1,185.6	1,155.6	30.03	39.484	
9,215.0	8,965.7	8,460.5	7,959.1	19.4	22.8	33.81	-63.1	-89.3	1,190.3	1,160.2	30.10	39.541	
9,250.0	8,975.0	8,494.1	7,959.1	19.4	22.8	33.16	-96.7	-89.5	1,199.8	1,169.6	30.27	39.637	
9,300.0	8,984.6	8,542.9	7,959.1	19.5	22.8	32.52	-145.5	-89.9	1,210.5	1,180.0	30.53	39.651	
9,310.0	8,986.0	8,552.7	7,959.1	19.5	22.8	32.43	-155.4	-90.0	1,212.2	1,181.6	30.58	39.638	
9,350.0	8,989.9	8,592.3	7,959.1	19.5	22.8	32.20	-195.0	-90.3	1,217.6	1,186.8	30.79	39.544	
9,385.7	8,991.0	8,627.8	7,959.1	19.6	22.8	32.16	-230.4	-90.6	1,220.4	1,189.4	30.96	39.414	
9,400.0	8,991.0	8,642.1	7,959.1	19.6	22.8	32.22	-244.7	-90.7	1,221.1	1,190.1	31.03	39.354	
9,405.0	8,991.0	8,647.1	7,959.1	19.6	22.8	32.25	-249.7	-90.7	1,221.3	1,190.3	31.05	39.330	

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,500.0	8,991.1	8,741.8	7,959.2	19.8	22.9	32.59	-344.4	-91.5	1,225.1	1,193.6	31.55	38.832		
9,595.0	8,991.1	8,836.7	7,959.2	19.9	22.9	32.78	-439.3	-92.2	1,227.2	1,195.1	32.11	38.216		
9,600.0	8,991.1	8,841.7	7,959.3	19.9	22.9	32.78	-444.3	-92.3	1,227.3	1,195.2	32.14	38.181		
9,666.8	8,991.1	8,908.5	7,959.3	20.1	22.9	32.82	-511.1	-92.8	1,227.7	1,195.1	32.57	37.696		
9,690.0	8,991.1	8,931.7	7,959.3	20.1	22.9	32.82	-534.3	-93.0	1,227.7	1,195.0	32.72	37.516		
9,700.0	8,991.1	8,941.7	7,959.3	20.1	22.9	32.82	-544.3	-93.1	1,227.7	1,194.9	32.79	37.439		
9,785.0	8,991.2	9,026.7	7,959.3	20.3	22.9	32.82	-629.3	-93.8	1,227.7	1,194.3	33.40	36.759		
9,800.0	8,991.2	9,041.7	7,959.4	20.3	22.9	32.82	-644.3	-93.9	1,227.7	1,194.2	33.51	36.638		
9,880.0	8,991.2	9,121.7	7,959.4	20.5	22.9	32.82	-724.3	-94.5	1,227.7	1,193.5	34.12	35.978		
9,900.0	8,991.2	9,141.7	7,959.4	20.6	22.9	32.82	-744.3	-94.7	1,227.7	1,193.4	34.28	35.813		
9,975.0	8,991.3	9,216.7	7,959.4	20.7	22.9	32.82	-819.3	-95.3	1,227.6	1,192.8	34.89	35.182		
10,000.0	8,991.3	9,241.7	7,959.5	20.8	22.9	32.82	-844.3	-95.5	1,227.6	1,192.5	35.10	34.972		
10,070.0	8,991.3	9,311.7	7,959.5	21.0	22.9	32.82	-914.3	-96.0	1,227.6	1,191.9	35.71	34.378		
10,100.0	8,991.3	9,341.7	7,959.5	21.1	22.9	32.81	-944.3	-96.3	1,227.6	1,191.6	35.98	34.124		
10,165.0	8,991.4	9,406.7	7,959.5	21.3	22.9	32.81	-1,009.3	-96.8	1,227.6	1,191.0	36.57	33.572		
10,200.0	8,991.4	9,441.7	7,959.6	21.4	22.9	32.81	-1,044.3	-97.1	1,227.6	1,190.7	36.89	33.276		
10,260.0	8,991.4	9,501.7	7,959.6	21.5	22.9	32.81	-1,104.3	-97.5	1,227.6	1,190.1	37.46	32.769		
10,300.0	8,991.4	9,541.7	7,959.6	21.7	23.0	32.81	-1,144.3	-97.9	1,227.6	1,189.7	37.85	32.433		
10,355.0	8,991.5	9,596.7	7,959.6	21.8	23.0	32.81	-1,199.3	-98.3	1,227.6	1,189.2	38.39	31.973		
10,400.0	8,991.5	9,641.7	7,959.7	22.0	23.0	32.81	-1,244.3	-98.6	1,227.6	1,188.7	38.85	31.601		
10,450.0	8,991.5	9,691.7	7,959.7	22.2	23.0	32.81	-1,294.3	-99.0	1,227.5	1,188.2	39.36	31.189		
10,500.0	8,991.5	9,741.7	7,959.7	22.3	23.0	32.81	-1,344.3	-99.4	1,227.5	1,187.7	39.88	30.783		
10,545.0	8,991.5	9,786.7	7,959.7	22.5	23.0	32.81	-1,389.3	-99.8	1,227.5	1,187.2	40.35	30.419		
10,600.0	8,991.6	9,841.7	7,959.8	22.7	23.0	32.81	-1,444.3	-100.2	1,227.5	1,186.6	40.94	29.982		
10,640.0	8,991.6	9,881.7	7,959.8	22.9	23.0	32.81	-1,484.3	-100.6	1,227.5	1,186.1	41.38	29.666		
10,700.0	8,991.6	9,941.7	7,959.8	23.1	23.0	32.81	-1,544.3	-101.0	1,227.5	1,185.5	42.04	29.200		
10,735.0	8,991.6	9,976.7	7,959.8	23.3	23.0	32.81	-1,579.3	-101.3	1,227.5	1,185.1	42.43	28.930		
10,800.0	8,991.7	10,041.7	7,959.9	23.5	23.1	32.81	-1,644.3	-101.8	1,227.5	1,184.3	43.16	28.440		
10,830.0	8,991.7	10,071.7	7,959.9	23.7	23.1	32.81	-1,674.3	-102.1	1,227.5	1,184.0	43.50	28.215		
10,900.0	8,991.7	10,141.7	7,959.9	24.0	23.1	32.81	-1,744.3	-102.6	1,227.5	1,183.1	44.31	27.701		
10,925.0	8,991.7	10,166.7	7,959.9	24.1	23.1	32.81	-1,769.3	-102.8	1,227.4	1,182.8	44.60	27.520		
11,000.0	8,991.8	10,241.7	7,960.0	24.4	23.1	32.81	-1,844.3	-103.4	1,227.4	1,181.9	45.48	26.986		
11,020.0	8,991.8	10,261.7	7,960.0	24.5	23.1	32.80	-1,864.3	-103.6	1,227.4	1,181.7	45.72	26.845		
11,100.0	8,991.8	10,341.7	7,960.0	24.9	23.1	32.80	-1,944.3	-104.2	1,227.4	1,180.7	46.68	26.294		
11,115.0	8,991.8	10,356.7	7,960.0	24.9	23.1	32.80	-1,959.3	-104.3	1,227.4	1,180.5	46.86	26.192		
11,200.0	8,991.8	10,441.7	7,960.1	25.4	23.2	32.80	-2,044.3	-105.0	1,227.4	1,179.5	47.90	25.626		
11,210.0	8,991.9	10,451.7	7,960.1	25.4	23.2	32.80	-2,054.3	-105.1	1,227.4	1,179.4	48.02	25.560		
11,300.0	8,991.9	10,541.7	7,960.1	25.8	23.2	32.80	-2,144.3	-105.8	1,227.4	1,178.2	49.13	24.981		
11,305.0	8,991.9	10,546.7	7,960.1	25.9	23.2	32.80	-2,149.3	-105.8	1,227.4	1,178.2	49.19	24.950		
11,400.0	8,991.9	10,641.7	7,960.2	26.4	23.2	32.80	-2,244.3	-106.6	1,227.3	1,177.0	50.38	24.360		
11,495.0	8,992.0	10,736.7	7,960.2	26.9	23.3	32.80	-2,339.3	-107.3	1,227.3	1,175.7	51.59	23.790		
11,500.0	8,992.0	10,741.7	7,960.2	26.9	23.3	32.80	-2,344.3	-107.4	1,227.3	1,175.7	51.65	23.760		
11,590.0	8,992.0	10,831.7	7,960.3	27.4	23.3	32.80	-2,434.3	-108.1	1,227.3	1,174.5	52.81	23.240		
11,600.0	8,992.0	10,841.7	7,960.3	27.4	23.4	32.80	-2,444.3	-108.2	1,227.3	1,174.4	52.94	23.183		
11,685.0	8,992.1	10,926.7	7,960.3	27.9	24.0	32.80	-2,529.3	-108.9	1,227.3	1,173.2	54.04	22.709		
11,700.0	8,992.1	10,941.7	7,960.3	28.0	24.1	32.80	-2,544.3	-109.0	1,227.3	1,173.0	54.24	22.628		
11,780.0	8,992.1	11,021.7	7,960.4	28.4	24.6	32.80	-2,624.2	-109.6	1,227.3	1,172.0	55.29	22.198		
11,800.0	8,992.1	11,041.7	7,960.4	28.5	24.7	32.80	-2,644.2	-109.8	1,227.3	1,171.7	55.55	22.093		
11,875.0	8,992.2	11,116.7	7,960.4	29.0	25.3	32.80	-2,719.2	-110.4	1,227.2	1,170.7	56.54	21.704		
11,900.0	8,992.2	11,141.7	7,960.4	29.1	25.4	32.80	-2,744.2	-110.6	1,227.2	1,170.4	56.88	21.578		
11,970.0	8,992.2	11,211.7	7,960.5	29.5	25.9	32.79	-2,814.2	-111.1	1,227.2	1,169.4	57.81	21.229		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error: 3.0 usft			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,000.0	8,992.2	11,241.7	7,960.5	29.7	26.1	32.79	-2,844.2	-111.4	1,227.2	1,169.0	58.21	21.082			
12,065.0	8,992.2	11,306.7	7,960.5	30.1	26.6	32.79	-2,909.2	-111.9	1,227.2	1,168.1	59.09	20.770			
12,100.0	8,992.3	11,341.7	7,960.5	30.3	26.8	32.79	-2,944.2	-112.2	1,227.2	1,167.6	59.56	20.605			
12,160.0	8,992.3	11,401.7	7,960.6	30.6	27.2	32.79	-3,004.2	-112.6	1,227.2	1,166.8	60.37	20.327			
12,200.0	8,992.3	11,441.7	7,960.6	30.9	27.5	32.79	-3,044.2	-113.0	1,227.2	1,166.3	60.91	20.146			
12,255.0	8,992.3	11,496.7	7,960.6	31.2	27.9	32.79	-3,099.2	-113.4	1,227.2	1,165.5	61.67	19.900			
12,300.0	8,992.4	11,541.7	7,960.7	31.5	28.2	32.79	-3,144.2	-113.7	1,227.2	1,164.9	62.28	19.704			
12,350.0	8,992.4	11,591.7	7,960.7	31.8	28.6	32.79	-3,194.2	-114.1	1,227.1	1,164.2	62.97	19.489			
12,400.0	8,992.4	11,641.7	7,960.7	32.1	28.9	32.79	-3,244.2	-114.5	1,227.1	1,163.5	63.66	19.278			
12,445.0	8,992.4	11,686.7	7,960.7	32.4	29.2	32.79	-3,289.2	-114.9	1,227.1	1,162.8	64.28	19.091			
12,500.0	8,992.5	11,741.7	7,960.8	32.7	29.6	32.79	-3,344.2	-115.3	1,227.1	1,162.1	65.04	18.868			
12,540.0	8,992.5	11,781.7	7,960.8	33.0	29.9	32.79	-3,384.2	-115.7	1,227.1	1,161.5	65.59	18.708			
12,600.0	8,992.5	11,841.7	7,960.8	33.3	30.3	32.79	-3,444.2	-116.1	1,227.1	1,160.7	66.43	18.472			
12,635.0	8,992.5	11,876.7	7,960.8	33.6	30.6	32.79	-3,479.2	-116.4	1,227.1	1,160.2	66.92	18.337			
12,700.0	8,992.5	11,941.7	7,960.9	34.0	31.1	32.79	-3,544.2	-116.9	1,227.1	1,159.2	67.83	18.091			
12,730.0	8,992.6	11,971.7	7,960.9	34.2	31.3	32.79	-3,574.2	-117.2	1,227.1	1,158.8	68.25	17.980			
12,800.0	8,992.6	12,041.7	7,960.9	34.6	31.8	32.79	-3,644.2	-117.7	1,227.1	1,157.8	69.23	17.724			
12,825.0	8,992.6	12,066.7	7,960.9	34.8	32.0	32.79	-3,669.2	-117.9	1,227.0	1,157.5	69.58	17.634			
12,900.0	8,992.6	12,141.7	7,961.0	35.3	32.5	32.78	-3,744.2	-118.5	1,227.0	1,156.4	70.64	17.370			
12,920.0	8,992.6	12,161.7	7,961.0	35.4	32.6	32.78	-3,764.2	-118.7	1,227.0	1,156.1	70.93	17.300			
13,000.0	8,992.7	12,241.7	7,961.0	35.9	33.2	32.78	-3,844.2	-119.3	1,227.0	1,155.0	72.06	17.028			
13,015.0	8,992.7	12,256.7	7,961.0	36.0	33.3	32.78	-3,859.2	-119.4	1,227.0	1,154.7	72.27	16.978			
13,100.0	8,992.7	12,341.7	7,961.1	36.6	33.9	32.78	-3,944.2	-120.1	1,227.0	1,153.5	73.48	16.698			
13,110.0	8,992.7	12,351.7	7,961.1	36.6	34.0	32.78	-3,954.2	-120.2	1,227.0	1,153.4	73.62	16.666			
13,200.0	8,992.8	12,441.7	7,961.1	37.2	34.7	32.78	-4,044.2	-120.9	1,227.0	1,152.1	74.91	16.379			
13,205.0	8,992.8	12,446.7	7,961.1	37.3	34.7	32.78	-4,049.2	-120.9	1,227.0	1,152.0	74.98	16.364			
13,300.0	8,992.8	12,541.7	7,961.2	37.9	35.4	32.78	-4,144.2	-121.7	1,226.9	1,150.6	76.34	16.072			
13,395.0	8,992.9	12,636.7	7,961.2	38.5	36.1	32.78	-4,239.2	-122.4	1,226.9	1,149.2	77.71	15.789			
13,400.0	8,992.9	12,641.7	7,961.2	38.6	36.1	32.78	-4,244.2	-122.5	1,226.9	1,149.1	77.78	15.774			
13,490.0	8,992.9	12,731.7	7,961.3	39.2	36.8	32.78	-4,334.2	-123.2	1,226.9	1,147.8	79.08	15.515			
13,500.0	8,992.9	12,741.7	7,961.3	39.2	36.8	32.78	-4,344.2	-123.3	1,226.9	1,147.7	79.22	15.487			
13,585.0	8,993.0	12,826.7	7,961.3	39.8	37.5	32.78	-4,429.2	-124.0	1,226.9	1,146.4	80.45	15.250			
13,600.0	8,993.0	12,841.7	7,961.3	39.9	37.6	32.78	-4,444.2	-124.1	1,226.9	1,146.2	80.67	15.209			
13,680.0	8,993.0	12,921.7	7,961.4	40.5	38.2	32.78	-4,524.2	-124.7	1,226.9	1,145.0	81.83	14.993			
13,700.0	8,993.0	12,941.7	7,961.4	40.6	38.3	32.78	-4,544.2	-124.9	1,226.9	1,144.7	82.12	14.940			
13,775.0	8,993.0	13,016.7	7,961.4	41.1	38.8	32.78	-4,619.2	-125.5	1,226.8	1,143.6	83.21	14.744			
13,800.0	8,993.1	13,041.7	7,961.4	41.3	39.0	32.78	-4,644.2	-125.7	1,226.8	1,143.3	83.57	14.680			
13,870.0	8,993.1	13,111.7	7,961.5	41.8	39.5	32.77	-4,714.2	-126.2	1,226.8	1,142.2	84.59	14.503			
13,900.0	8,993.1	13,141.7	7,961.5	42.0	39.8	32.77	-4,744.2	-126.5	1,226.8	1,141.8	85.03	14.428			
13,965.0	8,993.1	13,206.7	7,961.5	42.4	40.2	32.77	-4,809.2	-127.0	1,226.8	1,140.8	85.98	14.269			
14,000.0	8,993.2	13,241.7	7,961.5	42.6	40.5	32.77	-4,844.2	-127.3	1,226.8	1,140.3	86.49	14.184			
14,060.0	8,993.2	13,301.7	7,961.6	43.1	40.9	32.77	-4,904.2	-127.7	1,226.8	1,139.4	87.37	14.041			
14,100.0	8,993.2	13,341.7	7,961.6	43.3	41.2	32.77	-4,944.2	-128.1	1,226.8	1,138.8	87.96	13.948			
14,155.0	8,993.2	13,396.7	7,961.6	43.7	41.6	32.77	-4,999.2	-128.5	1,226.8	1,138.0	88.76	13.821			
14,200.0	8,993.2	13,441.7	7,961.6	44.0	42.0	32.77	-5,044.2	-128.8	1,226.8	1,137.3	89.42	13.719			
14,250.0	8,993.3	13,491.7	7,961.7	44.4	42.3	32.77	-5,094.2	-129.2	1,226.7	1,136.6	90.16	13.607			
14,300.0	8,993.3	13,541.7	7,961.7	44.7	42.7	32.77	-5,144.2	-129.6	1,226.7	1,135.8	90.89	13.496			
14,345.0	8,993.3	13,586.7	7,961.7	45.0	43.0	32.77	-5,189.2	-130.0	1,226.7	1,135.2	91.56	13.399			
14,400.0	8,993.3	13,641.7	7,961.7	45.4	43.4	32.77	-5,244.2	-130.4	1,226.7	1,134.3	92.37	13.281			
14,440.0	8,993.4	13,681.7	7,961.8	45.7	43.7	32.77	-5,284.2	-130.8	1,226.7	1,133.7	92.96	13.196			
14,500.0	8,993.4	13,741.7	7,961.8	46.1	44.2	32.77	-5,344.2	-131.2	1,226.7	1,132.9	93.84	13.072			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		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)	Factor		
14,535.0	8,993.4	13,776.7	7,961.8	46.4	44.4	32.77	-5,379.2	-131.5	1,226.7	1,132.3	94.36	13.000	
14,600.0	8,993.4	13,841.7	7,961.8	46.8	44.9	32.77	-5,444.2	-132.0	1,226.7	1,131.4	95.32	12.869	
14,630.0	8,993.4	13,871.7	7,961.9	47.0	45.2	32.77	-5,474.2	-132.3	1,226.7	1,130.9	95.77	12.809	
14,700.0	8,993.5	13,941.7	7,961.9	47.5	45.7	32.77	-5,544.2	-132.8	1,226.7	1,129.8	96.80	12.672	
14,725.0	8,993.5	13,966.7	7,961.9	47.7	45.9	32.77	-5,569.2	-133.0	1,226.6	1,129.5	97.17	12.623	
14,800.0	8,993.5	14,041.7	7,961.9	48.2	46.4	32.76	-5,644.2	-133.6	1,226.6	1,128.3	98.29	12.480	
14,820.0	8,993.5	14,061.7	7,962.0	48.4	46.6	32.76	-5,664.2	-133.8	1,226.6	1,128.0	98.58	12.443	
14,900.0	8,993.6	14,141.7	7,962.0	48.9	47.2	32.76	-5,744.2	-134.4	1,226.6	1,126.8	99.77	12.294	
14,915.0	8,993.6	14,156.7	7,962.0	49.1	47.3	32.76	-5,759.1	-134.5	1,226.6	1,126.6	99.99	12.267	
15,000.0	8,993.6	14,241.7	7,962.1	49.7	47.9	32.76	-5,844.1	-135.2	1,226.6	1,125.3	101.26	12.113	
15,010.0	8,993.6	14,251.7	7,962.1	49.7	48.0	32.76	-5,854.1	-135.3	1,226.6	1,125.2	101.41	12.096	
15,100.0	8,993.7	14,341.7	7,962.1	50.4	48.6	32.76	-5,944.1	-136.0	1,226.6	1,123.8	102.75	11.938	
15,105.0	8,993.7	14,346.7	7,962.1	50.4	48.7	32.76	-5,949.1	-136.0	1,226.6	1,123.7	102.82	11.929	
15,200.0	8,993.7	14,441.7	7,962.2	51.1	49.4	32.76	-6,044.1	-136.8	1,226.5	1,122.3	104.24	11.766	
15,295.0	8,993.8	14,536.7	7,962.2	51.8	50.1	32.76	-6,139.1	-137.5	1,226.5	1,120.9	105.66	11.608	
15,300.0	8,993.8	14,541.7	7,962.2	51.8	50.1	32.76	-6,144.1	-137.6	1,226.5	1,120.8	105.73	11.600	
15,390.0	8,993.8	14,631.7	7,962.3	52.4	50.8	32.76	-6,234.1	-138.3	1,226.5	1,119.4	107.08	11.454	
15,400.0	8,993.8	14,641.7	7,962.3	52.5	50.9	32.76	-6,244.1	-138.4	1,226.5	1,119.3	107.23	11.438	
15,485.0	8,993.8	14,726.7	7,962.3	53.1	51.5	32.76	-6,329.1	-139.1	1,226.5	1,118.0	108.50	11.304	
15,500.0	8,993.8	14,741.7	7,962.3	53.2	51.6	32.76	-6,344.1	-139.2	1,226.5	1,117.8	108.73	11.280	
15,580.0	8,993.9	14,821.7	7,962.4	53.8	52.2	32.76	-6,424.1	-139.8	1,226.5	1,116.5	109.93	11.157	
15,600.0	8,993.9	14,841.7	7,962.4	54.0	52.4	32.76	-6,444.1	-140.0	1,226.5	1,116.2	110.23	11.127	
15,675.0	8,993.9	14,916.7	7,962.4	54.5	52.9	32.76	-6,519.1	-140.6	1,226.4	1,115.1	111.35	11.014	
15,700.0	8,993.9	14,941.7	7,962.4	54.7	53.1	32.75	-6,544.1	-140.8	1,226.4	1,114.7	111.73	10.977	
15,770.0	8,994.0	15,011.7	7,962.5	55.2	53.6	32.75	-6,614.1	-141.3	1,226.4	1,113.7	112.78	10.875	
15,800.0	8,994.0	15,041.7	7,962.5	55.4	53.9	32.75	-6,644.1	-141.6	1,226.4	1,113.2	113.23	10.831	
15,865.0	8,994.0	15,106.7	7,962.5	55.9	54.4	32.75	-6,709.1	-142.1	1,226.4	1,112.2	114.20	10.739	
15,900.0	8,994.0	15,141.7	7,962.5	56.1	54.6	32.75	-6,744.1	-142.4	1,226.4	1,111.7	114.73	10.689	
15,960.0	8,994.1	15,201.7	7,962.5	56.6	55.1	32.75	-6,804.1	-142.8	1,226.4	1,110.8	115.63	10.606	
16,000.0	8,994.1	15,241.7	7,962.6	56.8	55.4	32.75	-6,844.1	-143.2	1,226.4	1,110.1	116.24	10.551	
16,055.0	8,994.1	15,296.7	7,962.6	57.2	55.8	32.75	-6,899.1	-143.6	1,226.4	1,109.3	117.06	10.476	
16,100.0	8,994.1	15,341.7	7,962.6	57.6	56.1	32.75	-6,944.1	-143.9	1,226.4	1,108.6	117.74	10.416	
16,150.0	8,994.2	15,391.7	7,962.6	57.9	56.5	32.75	-6,994.1	-144.3	1,226.3	1,107.9	118.49	10.349	
16,200.0	8,994.2	15,441.7	7,962.7	58.3	56.9	32.75	-7,044.1	-144.7	1,226.3	1,107.1	119.25	10.284	
16,245.0	8,994.2	15,486.7	7,962.7	58.6	57.2	32.75	-7,089.1	-145.1	1,226.3	1,106.4	119.93	10.226	
16,300.0	8,994.2	15,541.7	7,962.7	59.0	57.6	32.75	-7,144.1	-145.5	1,226.3	1,105.6	120.76	10.155	
16,340.0	8,994.2	15,581.7	7,962.7	59.3	57.9	32.75	-7,184.1	-145.9	1,226.3	1,104.9	121.36	10.105	
16,400.0	8,994.3	15,641.7	7,962.8	59.7	58.4	32.75	-7,244.1	-146.3	1,226.3	1,104.0	122.27	10.030	
16,435.0	8,994.3	15,676.7	7,962.8	60.0	58.6	32.75	-7,279.1	-146.6	1,226.3	1,103.5	122.80	9.986	
16,500.0	8,994.3	15,741.7	7,962.8	60.5	59.1	32.75	-7,344.1	-147.1	1,226.3	1,102.5	123.78	9.907	
16,530.0	8,994.3	15,771.7	7,962.8	60.7	59.3	32.75	-7,374.1	-147.4	1,226.3	1,102.0	124.23	9.871	
16,600.0	8,994.4	15,841.7	7,962.9	61.2	59.9	32.75	-7,444.1	-147.9	1,226.3	1,101.0	125.29	9.787	
16,625.0	8,994.4	15,866.7	7,962.9	61.4	60.1	32.75	-7,469.1	-148.1	1,226.2	1,100.6	125.67	9.758	
16,700.0	8,994.4	15,941.7	7,962.9	61.9	60.6	32.74	-7,544.1	-148.7	1,226.2	1,099.4	126.80	9.670	
16,720.0	8,994.4	15,961.7	7,962.9	62.1	60.8	32.74	-7,564.1	-148.9	1,226.2	1,099.1	127.11	9.647	
16,800.0	8,994.5	16,041.7	7,963.0	62.7	61.4	32.74	-7,644.1	-149.5	1,226.2	1,097.9	128.32	9.556	
16,815.0	8,994.5	16,056.7	7,963.0	62.8	61.5	32.74	-7,659.1	-149.6	1,226.2	1,097.7	128.54	9.539	
16,900.0	8,994.5	16,141.7	7,963.0	63.4	62.1	32.74	-7,744.1	-150.3	1,226.2	1,096.4	129.83	9.444	
16,910.0	8,994.5	16,151.7	7,963.0	63.5	62.2	32.74	-7,754.1	-150.4	1,226.2	1,096.2	129.98	9.433	
17,000.0	8,994.5	16,241.7	7,963.1	64.1	62.9	32.74	-7,844.1	-151.1	1,226.2	1,094.8	131.35	9.335	
17,005.0	8,994.6	16,246.7	7,963.1	64.2	62.9	32.74	-7,849.1	-151.1	1,226.2	1,094.7	131.42	9.330	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
17,100.0	8,994.6	16,341.7	7,963.1	64.9	63.6	32.74	-7,944.1	-151.9	1,226.1	1,093.3	132.86	9.229
17,195.0	8,994.6	16,436.7	7,963.2	65.6	64.3	32.74	-8,039.1	-152.6	1,226.1	1,091.8	134.31	9.129
17,200.0	8,994.6	16,441.7	7,963.2	65.6	64.4	32.74	-8,044.1	-152.7	1,226.1	1,091.7	134.38	9.124
17,290.0	8,994.7	16,531.7	7,963.2	66.3	65.1	32.74	-8,134.1	-153.4	1,226.1	1,090.4	135.75	9.032
17,300.0	8,994.7	16,541.7	7,963.2	66.3	65.1	32.74	-8,144.1	-153.5	1,226.1	1,090.2	135.90	9.022
17,385.0	8,994.7	16,626.7	7,963.3	67.0	65.8	32.74	-8,229.1	-154.2	1,226.1	1,088.9	137.19	8.937
17,400.0	8,994.7	16,641.7	7,963.3	67.1	65.9	32.74	-8,244.1	-154.3	1,226.1	1,088.7	137.42	8.922
17,480.0	8,994.8	16,721.7	7,963.3	67.7	66.5	32.74	-8,324.1	-154.9	1,226.1	1,087.4	138.64	8.844
17,500.0	8,994.8	16,741.7	7,963.3	67.8	66.6	32.74	-8,344.1	-155.1	1,226.1	1,087.1	138.94	8.824
17,575.0	8,994.8	16,816.7	7,963.4	68.4	67.2	32.73	-8,419.1	-155.7	1,226.0	1,086.0	140.08	8.752
17,600.0	8,994.8	16,841.7	7,963.4	68.5	67.4	32.73	-8,444.1	-155.9	1,226.0	1,085.6	140.46	8.729
17,670.0	8,994.9	16,911.7	7,963.4	69.1	67.9	32.73	-8,514.1	-156.4	1,226.0	1,084.5	141.53	8.663
17,700.0	8,994.9	16,941.7	7,963.5	69.3	68.1	32.73	-8,544.1	-156.7	1,226.0	1,084.0	141.98	8.635
17,765.0	8,994.9	17,006.7	7,963.5	69.8	68.6	32.73	-8,609.1	-157.2	1,226.0	1,083.0	142.97	8.575
17,800.0	8,994.9	17,041.7	7,963.5	70.0	68.9	32.73	-8,644.1	-157.5	1,226.0	1,082.5	143.51	8.543
17,860.0	8,994.9	17,101.7	7,963.5	70.5	69.4	32.73	-8,704.1	-157.9	1,226.0	1,081.6	144.42	8.489
17,900.0	8,995.0	17,141.7	7,963.6	70.8	69.7	32.73	-8,744.1	-158.2	1,226.0	1,080.9	145.03	8.453
17,955.0	8,995.0	17,196.7	7,963.6	71.2	70.1	32.73	-8,799.1	-158.7	1,226.0	1,080.1	145.87	8.405
18,000.0	8,995.0	17,241.7	7,963.6	71.5	70.4	32.73	-8,844.1	-159.0	1,226.0	1,079.4	146.55	8.365
18,050.0	8,995.0	17,291.7	7,963.6	71.9	70.8	32.73	-8,894.0	-159.4	1,225.9	1,078.6	147.32	8.322
18,100.0	8,995.1	17,341.7	7,963.7	72.2	71.2	32.73	-8,944.0	-159.8	1,225.9	1,077.9	148.08	8.279
18,145.0	8,995.1	17,386.7	7,963.7	72.6	71.5	32.73	-8,989.0	-160.2	1,225.9	1,077.2	148.77	8.241
18,200.0	8,995.1	17,441.7	7,963.7	73.0	71.9	32.73	-9,044.0	-160.6	1,225.9	1,076.3	149.60	8.194
18,240.0	8,995.1	17,481.7	7,963.7	73.3	72.2	32.73	-9,084.0	-161.0	1,225.9	1,075.7	150.22	8.161
18,300.0	8,995.2	17,541.7	7,963.8	73.7	72.7	32.73	-9,144.0	-161.4	1,225.9	1,074.8	151.13	8.111
18,335.0	8,995.2	17,576.7	7,963.8	74.0	72.9	32.73	-9,179.0	-161.7	1,225.9	1,074.2	151.67	8.083
18,400.0	8,995.2	17,641.7	7,963.8	74.5	73.4	32.73	-9,244.0	-162.2	1,225.9	1,073.2	152.66	8.030
18,430.0	8,995.2	17,671.7	7,963.8	74.7	73.7	32.73	-9,274.0	-162.5	1,225.9	1,072.8	153.12	8.006
18,500.0	8,995.2	17,741.7	7,963.9	75.2	74.2	32.72	-9,344.0	-163.0	1,225.9	1,071.7	154.18	7.951
18,525.0	8,995.3	17,766.7	7,963.9	75.4	74.4	32.72	-9,369.0	-163.2	1,225.8	1,071.3	154.57	7.931
18,600.0	8,995.3	17,841.7	7,963.9	76.0	74.9	32.72	-9,444.0	-163.8	1,225.8	1,070.1	155.71	7.872
18,620.0	8,995.3	17,861.7	7,963.9	76.1	75.1	32.72	-9,464.0	-164.0	1,225.8	1,069.8	156.02	7.857
18,700.0	8,995.3	17,941.7	7,964.0	76.7	75.7	32.72	-9,544.0	-164.6	1,225.8	1,068.6	157.24	7.796
18,715.0	8,995.3	17,956.7	7,964.0	76.8	75.8	32.72	-9,559.0	-164.7	1,225.8	1,068.3	157.47	7.784
18,800.0	8,995.4	18,041.7	7,964.0	77.4	76.5	32.72	-9,644.0	-165.4	1,225.8	1,067.0	158.77	7.721
18,810.0	8,995.4	18,051.7	7,964.0	77.5	76.5	32.72	-9,654.0	-165.5	1,225.8	1,066.9	158.92	7.713
18,900.0	8,995.4	18,141.7	7,964.1	78.2	77.2	32.72	-9,744.0	-166.2	1,225.8	1,065.5	160.30	7.647
18,905.0	8,995.4	18,146.7	7,964.1	78.2	77.2	32.72	-9,749.0	-166.2	1,225.8	1,065.4	160.38	7.643
19,000.0	8,995.5	18,241.7	7,964.1	78.9	78.0	32.72	-9,844.0	-167.0	1,225.7	1,063.9	161.83	7.574
19,095.0	8,995.5	18,336.7	7,964.2	79.6	78.7	32.72	-9,939.0	-167.7	1,225.7	1,062.4	163.28	7.507
19,100.0	8,995.5	18,341.7	7,964.2	79.7	78.7	32.72	-9,944.0	-167.8	1,225.7	1,062.4	163.36	7.503
19,190.0	8,995.6	18,431.7	7,964.2	80.3	79.4	32.72	-10,034.0	-168.5	1,225.7	1,061.0	164.74	7.440
19,200.0	8,995.6	18,441.7	7,964.2	80.4	79.5	32.72	-10,044.0	-168.6	1,225.7	1,060.8	164.89	7.433
19,285.0	8,995.6	18,526.7	7,964.3	81.0	80.1	32.72	-10,129.0	-169.3	1,225.7	1,059.5	166.19	7.375
19,300.0	8,995.6	18,541.7	7,964.3	81.2	80.2	32.72	-10,144.0	-169.4	1,225.7	1,059.3	166.42	7.365
19,380.0	8,995.7	18,621.7	7,964.3	81.8	80.8	32.72	-10,224.0	-170.0	1,225.7	1,058.0	167.65	7.311
19,400.0	8,995.7	18,641.7	7,964.3	81.9	81.0	32.72	-10,244.0	-170.2	1,225.7	1,057.7	167.95	7.298
19,475.0	8,995.7	18,716.7	7,964.4	82.5	81.6	32.71	-10,319.0	-170.8	1,225.6	1,056.5	169.10	7.248
19,500.0	8,995.7	18,741.7	7,964.4	82.7	81.7	32.71	-10,344.0	-171.0	1,225.6	1,056.2	169.49	7.232
19,570.0	8,995.7	18,811.7	7,964.4	83.2	82.3	32.71	-10,414.0	-171.5	1,225.6	1,055.1	170.56	7.186
19,600.0	8,995.8	18,841.7	7,964.4	83.4	82.5	32.71	-10,444.0	-171.8	1,225.6	1,054.6	171.02	7.167

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation	Warning	
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)			Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation (usft)	Factor		
19,665.0	8,995.8	18,906.7	7,964.5	83.9	83.0	32.71	-10,509.0	-172.3	1,225.6	1,053.6	172.02	7.125		
19,700.0	8,995.8	18,941.7	7,964.5	84.1	83.3	32.71	-10,544.0	-172.6	1,225.6	1,053.0	172.55	7.103		
19,760.0	8,995.8	19,001.7	7,964.5	84.6	83.7	32.71	-10,604.0	-173.0	1,225.6	1,052.1	173.47	7.065		
19,800.0	8,995.9	19,041.7	7,964.5	84.9	84.0	32.71	-10,644.0	-173.3	1,225.6	1,051.5	174.09	7.040		
19,855.0	8,995.9	19,096.7	7,964.6	85.3	84.4	32.71	-10,699.0	-173.8	1,225.6	1,050.6	174.93	7.006		
19,900.0	8,995.9	19,141.7	7,964.6	85.6	84.8	32.71	-10,744.0	-174.1	1,225.6	1,049.9	175.62	6.978		
19,950.0	8,995.9	19,191.7	7,964.6	86.0	85.2	32.71	-10,794.0	-174.5	1,225.5	1,049.2	176.39	6.948		
20,000.0	8,995.9	19,241.7	7,964.6	86.4	85.5	32.71	-10,844.0	-174.9	1,225.5	1,048.4	177.15	6.918		
20,045.0	8,996.0	19,286.7	7,964.7	86.7	85.9	32.71	-10,889.0	-175.3	1,225.5	1,047.7	177.85	6.891		
20,100.0	8,996.0	19,341.7	7,964.7	87.1	86.3	32.71	-10,944.0	-175.7	1,225.5	1,046.8	178.69	6.858		
20,140.0	8,996.0	19,381.7	7,964.7	87.4	86.6	32.71	-10,984.0	-176.1	1,225.5	1,046.2	179.30	6.835		
20,200.0	8,996.0	19,441.7	7,964.7	87.9	87.1	32.71	-11,044.0	-176.5	1,225.5	1,045.3	180.22	6.800		
20,235.0	8,996.1	19,476.7	7,964.8	88.1	87.3	32.71	-11,079.0	-176.8	1,225.5	1,044.7	180.76	6.780		
20,300.0	8,996.1	19,541.7	7,964.8	88.6	87.8	32.71	-11,144.0	-177.3	1,225.5	1,043.7	181.76	6.742		
20,330.0	8,996.1	19,571.7	7,964.8	88.9	88.0	32.71	-11,174.0	-177.6	1,225.5	1,043.2	182.22	6.725		
20,400.0	8,996.1	19,641.7	7,964.9	89.4	88.6	32.70	-11,244.0	-178.1	1,225.5	1,042.2	183.30	6.686		
20,425.0	8,996.1	19,666.7	7,964.9	89.6	88.8	32.70	-11,269.0	-178.3	1,225.4	1,041.8	183.68	6.672		
20,500.0	8,996.2	19,741.7	7,964.9	90.1	89.3	32.70	-11,344.0	-178.9	1,225.4	1,040.6	184.83	6.630		
20,520.0	8,996.2	19,761.7	7,964.9	90.3	89.5	32.70	-11,364.0	-179.1	1,225.4	1,040.3	185.14	6.619		
20,600.0	8,996.2	19,841.7	7,965.0	90.9	90.1	32.70	-11,444.0	-179.7	1,225.4	1,039.0	186.37	6.575		
20,615.0	8,996.2	19,856.7	7,965.0	91.0	90.2	32.70	-11,459.0	-179.8	1,225.4	1,038.8	186.60	6.567		
20,700.0	8,996.3	19,941.7	7,965.0	91.6	90.8	32.70	-11,544.0	-180.5	1,225.4	1,037.5	187.91	6.521		
20,710.0	8,996.3	19,951.7	7,965.0	91.7	90.9	32.70	-11,554.0	-180.6	1,225.4	1,037.3	188.06	6.516		
20,800.0	8,996.3	20,041.7	7,965.1	92.4	91.6	32.70	-11,644.0	-181.3	1,225.4	1,035.9	189.44	6.468		
20,805.0	8,996.3	20,046.7	7,965.1	92.4	91.6	32.70	-11,649.0	-181.3	1,225.4	1,035.8	189.52	6.466		
20,900.0	8,996.4	20,141.7	7,965.1	93.1	92.4	32.70	-11,744.0	-182.1	1,225.3	1,034.4	190.98	6.416		
20,995.0	8,996.4	20,236.7	7,965.2	93.8	93.1	32.70	-11,839.0	-182.8	1,225.3	1,032.9	192.44	6.367		
21,000.0	8,996.4	20,241.7	7,965.2	93.9	93.1	32.70	-11,844.0	-182.9	1,225.3	1,032.8	192.52	6.365		
21,090.0	8,996.5	20,331.7	7,965.2	94.6	93.8	32.70	-11,934.0	-183.6	1,225.3	1,031.4	193.90	6.319		
21,100.0	8,996.5	20,341.7	7,965.2	94.6	93.9	32.70	-11,944.0	-183.7	1,225.3	1,031.3	194.06	6.314		
21,185.0	8,996.5	20,426.7	7,965.3	95.3	94.5	32.70	-12,029.0	-184.4	1,225.3	1,029.9	195.36	6.272		
21,200.0	8,996.5	20,441.7	7,965.3	95.4	94.6	32.70	-12,043.9	-184.5	1,225.3	1,029.7	195.59	6.264		
21,280.0	8,996.5	20,521.7	7,965.3	96.0	95.2	32.70	-12,123.9	-185.1	1,225.3	1,028.4	196.83	6.225		
21,300.0	8,996.6	20,541.7	7,965.3	96.1	95.4	32.69	-12,143.9	-185.3	1,225.3	1,028.1	197.13	6.215		
21,375.0	8,996.6	20,616.7	7,965.4	96.7	96.0	32.69	-12,218.9	-185.9	1,225.2	1,027.0	198.29	6.179		
21,400.0	8,996.6	20,641.7	7,965.4	96.9	96.2	32.69	-12,243.9	-186.1	1,225.2	1,026.6	198.67	6.167		
21,470.0	8,996.6	20,711.7	7,965.4	97.4	96.7	32.69	-12,313.9	-186.6	1,225.2	1,025.5	199.75	6.134		
21,500.0	8,996.6	20,741.7	7,965.4	97.6	96.9	32.69	-12,343.9	-186.9	1,225.2	1,025.0	200.21	6.120		
21,565.0	8,996.7	20,806.7	7,965.5	98.1	97.4	32.69	-12,408.9	-187.4	1,225.2	1,024.0	201.21	6.089		
21,600.0	8,996.7	20,841.7	7,965.5	98.4	97.7	32.69	-12,443.9	-187.7	1,225.2	1,023.5	201.75	6.073		
21,660.0	8,996.7	20,901.7	7,965.5	98.8	98.1	32.69	-12,503.9	-188.1	1,225.2	1,022.5	202.67	6.045		
21,700.0	8,996.7	20,941.7	7,965.5	99.1	98.4	32.69	-12,543.9	-188.4	1,225.2	1,021.9	203.29	6.027		
21,755.0	8,996.8	20,996.7	7,965.6	99.5	98.9	32.69	-12,598.9	-188.9	1,225.2	1,021.0	204.14	6.002		
21,800.0	8,996.8	21,041.7	7,965.6	99.9	99.2	32.69	-12,643.9	-189.2	1,225.2	1,020.3	204.83	5.981		
21,850.0	8,996.8	21,091.7	7,965.6	100.3	99.6	32.69	-12,693.9	-189.6	1,225.1	1,019.5	205.60	5.959		
21,900.0	8,996.8	21,141.7	7,965.6	100.6	100.0	32.69	-12,743.9	-190.0	1,225.1	1,018.8	206.37	5.937		
21,945.0	8,996.9	21,186.7	7,965.7	101.0	100.3	32.69	-12,788.9	-190.4	1,225.1	1,018.1	207.06	5.917		
22,000.0	8,996.9	21,241.7	7,965.7	101.4	100.7	32.69	-12,843.9	-190.8	1,225.1	1,017.2	207.91	5.892		
22,040.0	8,996.9	21,281.7	7,965.7	101.7	101.0	32.69	-12,883.9	-191.2	1,225.1	1,016.6	208.53	5.875		
22,100.0	8,996.9	21,341.7	7,965.7	102.1	101.5	32.69	-12,943.9	-191.6	1,225.1	1,015.6	209.45	5.849		
22,135.0	8,996.9	21,376.7	7,965.8	102.4	101.7	32.69	-12,978.9	-191.9	1,225.1	1,015.1	209.99	5.834		

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
22,200.0	8,997.0	21,441.7	7,965.8	102.9	102.2	32.69	-13,043.9	-192.4	1,225.1	1,014.1	210.99	5.806
22,230.0	8,997.0	21,471.7	7,965.8	103.1	102.5	32.68	-13,073.9	-192.7	1,225.1	1,013.6	211.46	5.794
22,300.0	8,997.0	21,541.7	7,965.8	103.6	103.0	32.68	-13,143.9	-193.2	1,225.1	1,012.5	212.53	5.764
22,325.0	8,997.0	21,566.7	7,965.9	103.8	103.2	32.68	-13,168.9	-193.4	1,225.1	1,012.1	212.92	5.754
22,400.0	8,997.1	21,641.7	7,965.9	104.4	103.7	32.68	-13,243.9	-194.0	1,225.0	1,011.0	214.08	5.722
22,420.0	8,997.1	21,661.7	7,965.9	104.6	103.9	32.68	-13,263.9	-194.2	1,225.0	1,010.6	214.38	5.714
22,500.0	8,997.1	21,741.7	7,965.9	105.2	104.5	32.68	-13,343.9	-194.8	1,225.0	1,009.4	215.62	5.681
22,515.0	8,997.1	21,756.7	7,966.0	105.3	104.6	32.68	-13,358.9	-194.9	1,225.0	1,009.2	215.85	5.675
22,600.0	8,997.2	21,841.7	7,966.0	105.9	105.3	32.68	-13,443.9	-195.6	1,225.0	1,007.8	217.16	5.641
22,610.0	8,997.2	21,851.7	7,966.0	106.0	105.3	32.68	-13,453.9	-195.7	1,225.0	1,007.7	217.31	5.637
22,700.0	8,997.2	21,941.7	7,966.0	106.7	106.0	32.68	-13,543.9	-196.4	1,225.0	1,006.3	218.70	5.601
22,705.0	8,997.2	21,946.7	7,966.0	106.7	106.1	32.68	-13,548.9	-196.4	1,225.0	1,006.2	218.78	5.599
22,800.0	8,997.3	22,041.7	7,966.1	107.4	106.8	32.68	-13,643.9	-197.2	1,225.0	1,004.7	220.24	5.562
22,895.0	8,997.3	22,136.7	7,966.1	108.1	107.5	32.68	-13,738.9	-197.9	1,224.9	1,003.2	221.71	5.525
22,900.0	8,997.3	22,141.7	7,966.2	108.2	107.5	32.68	-13,743.9	-198.0	1,224.9	1,003.1	221.79	5.523
22,990.0	8,997.3	22,231.7	7,966.2	108.8	108.2	32.68	-13,833.9	-198.7	1,224.9	1,001.7	223.17	5.489
23,000.0	8,997.3	22,241.7	7,966.2	108.9	108.3	32.68	-13,843.9	-198.8	1,224.9	1,001.6	223.33	5.485
23,085.0	8,997.4	22,326.7	7,966.2	109.6	109.0	32.68	-13,928.9	-199.5	1,224.9	1,000.3	224.64	5.453
23,100.0	8,997.4	22,341.7	7,966.3	109.7	109.1	32.68	-13,943.9	-199.6	1,224.9	1,000.0	224.87	5.447
23,180.0	8,997.4	22,421.7	7,966.3	110.3	109.7	32.67	-14,023.9	-200.2	1,224.9	998.8	226.11	5.417
23,200.0	8,997.4	22,441.7	7,966.3	110.4	109.8	32.67	-14,043.9	-200.4	1,224.9	998.5	226.41	5.410
23,275.0	8,997.5	22,516.7	7,966.3	111.0	110.4	32.67	-14,118.9	-201.0	1,224.9	997.3	227.57	5.382
23,300.0	8,997.5	22,541.7	7,966.4	111.2	110.6	32.67	-14,143.9	-201.2	1,224.8	996.9	227.96	5.373
23,370.0	8,997.5	22,611.7	7,966.4	111.7	111.1	32.67	-14,213.9	-201.7	1,224.8	995.8	229.04	5.348
23,400.0	8,997.5	22,641.7	7,966.4	111.9	111.4	32.67	-14,243.9	-202.0	1,224.8	995.3	229.50	5.337
23,465.0	8,997.6	22,706.7	7,966.4	112.4	111.8	32.67	-14,308.9	-202.5	1,224.8	994.3	230.50	5.314
23,500.0	8,997.6	22,741.7	7,966.5	112.7	112.1	32.67	-14,343.9	-202.8	1,224.8	993.8	231.04	5.301
23,560.0	8,997.6	22,801.7	7,966.5	113.1	112.6	32.67	-14,403.9	-203.2	1,224.8	992.8	231.97	5.280
23,600.0	8,997.6	22,841.7	7,966.5	113.4	112.9	32.67	-14,443.9	-203.5	1,224.8	992.2	232.59	5.266
23,655.0	8,997.6	22,896.7	7,966.5	113.9	113.3	32.67	-14,498.9	-204.0	1,224.8	991.3	233.44	5.247
23,700.0	8,997.7	22,941.7	7,966.6	114.2	113.6	32.67	-14,543.9	-204.3	1,224.8	990.6	234.13	5.231
23,750.0	8,997.7	22,991.7	7,966.6	114.6	114.0	32.67	-14,593.9	-204.7	1,224.8	989.8	234.90	5.214
23,800.0	8,997.7	23,041.7	7,966.6	115.0	114.4	32.67	-14,643.9	-205.1	1,224.7	989.1	235.68	5.197
23,845.0	8,997.7	23,086.7	7,966.6	115.3	114.7	32.67	-14,688.9	-205.5	1,224.7	988.4	236.37	5.181
23,900.0	8,997.8	23,141.7	7,966.7	115.7	115.2	32.67	-14,743.9	-205.9	1,224.7	987.5	237.22	5.163
23,940.0	8,997.8	23,181.7	7,966.7	116.0	115.5	32.67	-14,783.9	-206.3	1,224.7	986.9	237.84	5.149
24,000.0	8,997.8	23,241.7	7,966.7	116.5	115.9	32.67	-14,843.9	-206.7	1,224.7	985.9	238.76	5.129
24,035.0	8,997.8	23,276.7	7,966.7	116.7	116.2	32.67	-14,878.9	-207.0	1,224.7	985.4	239.31	5.118
24,100.0	8,997.9	23,341.7	7,966.8	117.2	116.7	32.66	-14,943.9	-207.5	1,224.7	984.4	240.31	5.096
24,130.0	8,997.9	23,371.7	7,966.8	117.5	116.9	32.66	-14,973.9	-207.8	1,224.7	983.9	240.77	5.086
24,200.0	8,997.9	23,441.7	7,966.8	118.0	117.4	32.66	-15,043.9	-208.3	1,224.7	982.8	241.85	5.064
24,225.0	8,997.9	23,466.7	7,966.8	118.2	117.6	32.66	-15,068.9	-208.5	1,224.7	982.4	242.24	5.056
24,275.8	8,997.9	23,517.5	7,966.9	118.6	118.0	32.66	-15,119.7	-208.9	1,224.6	981.6	243.02	5.039
24,300.0	8,998.0	23,541.7	7,966.9	118.7	118.2	32.66	-15,143.9	-209.1	1,224.6	981.2	243.40	5.031
24,320.0	8,998.0	23,561.7	7,966.9	118.9	118.3	32.66	-15,163.9	-209.3	1,224.6	980.9	243.71	5.025
24,405.9	8,998.0	23,647.6	7,966.9	119.5	119.0	32.66	-15,249.8	-210.0	1,224.6	979.6	245.03	4.998 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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
0.0	0.0	0.0	0.0	3.0	3.0	-90.95	-0.5	-30.0	30.0				
95.0	95.0	94.9	94.9	3.0	3.0	-90.95	-0.5	-30.0	30.0	24.0	6.04	4.971	
100.0	100.0	99.9	99.9	3.0	3.0	-90.95	-0.5	-30.0	30.0	24.0	6.04	4.967	
190.0	190.0	189.9	189.9	3.1	3.1	-90.95	-0.5	-30.0	30.0	23.8	6.25	4.799	
200.0	200.0	199.9	199.9	3.1	3.1	-90.95	-0.5	-30.0	30.0	23.7	6.29	4.773	
285.0	285.0	284.9	284.9	3.3	3.3	-90.95	-0.5	-30.0	30.0	23.5	6.48	4.628	
300.0	300.0	299.9	299.9	3.3	3.3	-90.95	-0.5	-30.0	30.0	23.5	6.52	4.600	
380.0	380.0	379.9	379.9	3.4	3.4	-90.95	-0.5	-30.0	30.0	23.3	6.70	4.477	
400.0	400.0	399.9	399.9	3.4	3.4	-90.95	-0.5	-30.0	30.0	23.3	6.75	4.445	
475.0	475.0	474.9	474.9	3.5	3.5	-90.95	-0.5	-30.0	30.0	23.1	6.91	4.340	
500.0	500.0	499.9	499.9	3.5	3.5	-90.95	-0.5	-30.0	30.0	23.0	6.97	4.304	
570.0	570.0	569.9	569.9	3.6	3.6	-90.95	-0.5	-30.0	30.0	22.9	7.12	4.215	
600.0	600.0	599.9	599.9	3.6	3.6	-90.95	-0.5	-30.0	30.0	22.8	7.18	4.176	
665.0	665.0	664.9	664.9	3.7	3.7	-90.95	-0.5	-30.0	30.0	22.7	7.32	4.100	
700.0	700.0	699.9	699.9	3.8	3.8	-90.95	-0.5	-30.0	30.0	22.6	7.39	4.059	
760.0	760.0	759.9	759.9	3.8	3.8	-90.95	-0.5	-30.0	30.0	22.5	7.51	3.994	
800.0	800.0	799.9	799.9	3.9	3.9	-90.95	-0.5	-30.0	30.0	22.4	7.59	3.951	
855.0	855.0	854.9	854.9	4.0	4.0	-90.95	-0.5	-30.0	30.0	22.3	7.70	3.896	
900.0	900.0	899.9	899.9	4.0	4.0	-90.95	-0.5	-30.0	30.0	22.2	7.79	3.851	
950.0	950.0	949.9	949.9	4.1	4.1	-90.95	-0.5	-30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	999.9	999.9	4.1	4.1	-90.95	-0.5	-30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,044.9	1,044.9	4.2	4.2	-90.95	-0.5	-30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,099.9	1,099.9	4.2	4.2	-90.95	-0.5	-30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,139.9	1,139.9	4.3	4.3	-90.95	-0.5	-30.0	30.0	21.8	8.24	3.640	
1,200.0	1,200.0	1,199.9	1,199.9	4.4	4.4	-90.95	-0.5	-30.0	30.0	21.7	8.35	3.592	
1,235.0	1,235.0	1,234.9	1,234.9	4.4	4.4	-90.95	-0.5	-30.0	30.0	21.6	8.41	3.566	
1,300.0	1,300.0	1,299.9	1,299.9	4.5	4.5	-90.95	-0.5	-30.0	30.0	21.5	8.53	3.517	
1,330.0	1,330.0	1,329.9	1,329.9	4.5	4.5	-90.95	-0.5	-30.0	30.0	21.4	8.58	3.495	
1,400.0	1,400.0	1,399.9	1,399.9	4.6	4.6	-90.95	-0.5	-30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,424.9	1,424.9	4.6	4.6	-90.95	-0.5	-30.0	30.0	21.3	8.75	3.429	
1,500.0	1,500.0	1,499.9	1,499.9	4.7	4.7	-90.95	-0.5	-30.0	30.0	21.1	8.88	3.379 CC	
1,520.0	1,520.0	1,520.0	1,520.0	4.7	4.8	-147.56	-0.4	-30.0	30.0	21.1	8.93	3.364 ES	
1,600.0	1,600.0	1,600.3	1,600.3	4.9	4.9	-146.32	1.1	-29.4	30.8	21.7	9.13	3.376	
1,615.0	1,615.0	1,615.3	1,615.3	4.9	5.0	-145.92	1.7	-29.2	31.1	21.9	9.20	3.383	
1,700.0	1,699.8	1,700.6	1,700.4	5.1	5.2	-142.83	6.1	-27.5	33.4	23.9	9.53	3.504	
1,710.0	1,709.8	1,710.6	1,710.4	5.1	5.2	-142.39	6.7	-27.2	33.8	24.2	9.57	3.527	
1,800.0	1,799.5	1,800.8	1,800.2	5.3	5.4	-138.08	14.2	-24.4	37.9	28.0	9.91	3.825	
1,805.0	1,804.4	1,805.8	1,805.2	5.4	5.5	-137.83	14.7	-24.2	38.2	28.3	9.93	3.847	
1,900.0	1,898.7	1,900.6	1,899.4	5.6	5.6	-133.67	25.2	-20.2	44.6	34.4	10.19	4.375	
1,995.0	1,992.5	1,995.2	1,993.3	5.9	5.8	-132.72	36.0	-16.1	53.2	42.7	10.57	5.038	
2,000.0	1,997.5	2,000.2	1,998.2	5.9	5.8	-132.74	36.6	-15.9	53.7	43.2	10.59	5.077	
2,090.0	2,085.8	2,089.6	2,086.9	6.3	6.1	-134.07	46.7	-12.0	64.0	53.0	10.97	5.832	
2,100.0	2,095.6	2,099.5	2,096.8	6.3	6.1	-134.30	47.9	-11.6	65.3	54.2	11.02	5.923	
2,185.0	2,178.5	2,183.6	2,180.3	6.6	6.3	-136.62	57.4	-7.9	77.1	65.6	11.43	6.741	
2,199.8	2,192.9	2,198.2	2,194.8	6.6	6.3	-137.08	59.1	-7.3	79.3	67.8	11.51	6.892	
2,280.0	2,270.7	2,277.4	2,273.3	6.9	6.6	-139.38	68.1	-3.8	91.8	79.9	11.90	7.713	
2,300.0	2,290.1	2,297.1	2,292.9	7.0	6.6	-139.86	70.4	-3.0	94.9	82.9	11.99	7.910	
2,375.0	2,362.9	2,371.2	2,366.4	7.2	6.9	-141.41	78.8	0.2	106.6	94.3	12.37	8.622	
2,400.0	2,387.1	2,395.8	2,390.9	7.3	6.9	-141.85	81.6	1.3	110.6	98.1	12.49	8.850	
2,470.0	2,455.0	2,464.9	2,459.5	7.5	7.1	-142.94	89.5	4.3	121.6	108.8	12.85	9.461	
2,500.0	2,484.1	2,494.5	2,488.9	7.6	7.2	-143.35	92.8	5.6	126.4	113.3	13.01	9.713	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		
2,565.0	2,547.2	2,558.7	2,552.5	7.9	7.4	-144.13	100.1	8.4	136.7	123.3	13.35	10.235		
2,600.0	2,581.2	2,593.2	2,586.8	8.0	7.6	-144.51	104.1	9.9	142.2	128.7	13.54	10.505		
2,660.0	2,639.4	2,652.4	2,645.6	8.2	7.8	-145.09	110.8	12.5	151.7	137.9	13.86	10.947		
2,700.0	2,678.2	2,691.9	2,684.8	8.4	7.9	-145.44	115.3	14.2	158.1	144.0	14.08	11.230		
2,755.0	2,731.6	2,746.2	2,738.7	8.6	8.1	-145.87	121.5	16.5	166.9	152.5	14.38	11.602		
2,800.0	2,775.2	2,790.6	2,782.7	8.7	8.2	-146.20	126.5	18.5	174.0	159.4	14.63	11.895		
2,850.0	2,823.8	2,840.0	2,831.7	8.9	8.4	-146.53	132.2	20.6	182.0	167.1	14.91	12.205		
2,900.0	2,872.3	2,889.3	2,880.7	9.1	8.6	-146.83	137.8	22.7	190.0	174.8	15.19	12.504		
2,945.0	2,915.9	2,933.7	2,924.8	9.3	8.7	-147.08	142.8	24.7	197.2	181.7	15.45	12.761		
3,000.0	2,969.3	2,988.0	2,978.7	9.5	8.9	-147.37	149.0	27.0	206.0	190.2	15.77	13.063		
3,040.0	3,008.1	3,027.5	3,017.9	9.7	9.1	-147.56	153.5	28.7	212.4	196.4	16.00	13.273		
3,100.0	3,066.3	3,086.7	3,076.6	10.0	9.3	-147.82	160.3	31.3	222.0	205.6	16.35	13.576		
3,135.0	3,100.3	3,121.3	3,110.9	10.1	9.4	-147.97	164.2	32.8	227.6	211.0	16.55	13.746		
3,200.0	3,163.4	3,185.4	3,174.6	10.4	9.6	-148.22	171.5	35.6	238.0	221.0	16.94	14.049		
3,230.0	3,192.5	3,215.0	3,204.0	10.5	9.7	-148.33	174.9	36.9	242.8	225.6	17.12	14.183		
3,300.0	3,260.4	3,284.1	3,272.6	10.8	10.0	-148.57	182.7	39.9	254.0	236.4	17.53	14.484		
3,325.0	3,284.7	3,308.8	3,297.1	10.9	10.1	-148.65	185.5	41.0	258.0	240.3	17.68	14.588		
3,400.0	3,357.4	3,382.8	3,370.5	11.2	10.4	-148.87	194.0	44.2	270.0	251.9	18.14	14.887		
3,420.0	3,376.8	3,402.6	3,390.1	11.3	10.4	-148.93	196.2	45.0	273.2	254.9	18.26	14.963		
3,500.0	3,454.5	3,481.5	3,468.5	11.7	10.7	-149.14	205.2	48.5	286.0	267.3	18.74	15.259		
3,515.0	3,469.0	3,496.3	3,483.2	11.7	10.8	-149.18	206.9	49.1	288.4	269.6	18.84	15.312		
3,600.0	3,551.5	3,580.2	3,566.5	12.1	11.1	-149.38	216.4	52.7	302.0	282.7	19.36	15.604		
3,610.0	3,561.2	3,590.1	3,576.3	12.2	11.1	-149.41	217.6	53.2	303.6	284.2	19.42	15.637		
3,700.0	3,648.5	3,678.9	3,664.4	12.5	11.5	-149.60	227.7	57.0	318.1	298.1	19.97	15.925		
3,705.0	3,653.4	3,683.9	3,669.3	12.6	11.5	-149.61	228.2	57.2	318.9	298.9	20.01	15.940		
3,800.0	3,745.6	3,777.6	3,762.4	13.0	11.9	-149.80	238.9	61.3	334.1	313.5	20.60	16.223		
3,895.0	3,837.7	3,871.4	3,855.4	13.4	12.2	-149.97	249.6	65.4	349.4	328.2	21.19	16.487		
3,900.0	3,842.6	3,876.3	3,860.3	13.4	12.2	-149.98	250.2	65.6	350.2	328.9	21.22	16.500		
3,990.0	3,929.9	3,965.1	3,948.5	13.9	12.6	-150.12	260.3	69.5	364.6	342.8	21.79	16.735		
4,000.0	3,939.6	3,975.0	3,958.3	13.9	12.6	-150.14	261.4	69.9	366.2	344.4	21.85	16.760		
4,019.1	3,958.1	3,993.9	3,977.0	14.0	12.7	-150.17	263.5	70.7	369.3	347.3	21.96	16.814		
4,085.0	4,022.3	4,059.0	4,041.7	14.3	12.9	-150.31	271.0	73.5	379.2	356.8	22.37	16.953		
4,100.0	4,036.9	4,073.9	4,056.4	14.3	13.0	-150.32	272.7	74.2	381.3	358.8	22.46	16.977		
4,180.0	4,115.3	4,153.2	4,135.2	14.7	13.3	-150.29	281.7	77.6	391.2	368.3	22.93	17.058		
4,200.0	4,134.9	4,173.1	4,154.9	14.8	13.4	-150.25	284.0	78.5	393.4	370.4	23.05	17.068		
4,275.0	4,208.9	4,246.4	4,227.6	15.2	13.7	-150.06	292.1	81.6	400.6	377.2	23.45	17.085		
4,300.0	4,233.6	4,270.6	4,251.7	15.3	13.8	-149.99	294.6	82.6	402.7	379.1	23.58	17.080		
4,370.0	4,303.0	4,338.4	4,319.1	15.6	14.0	-149.78	301.2	85.1	407.9	383.9	23.92	17.049		
4,400.0	4,332.8	4,367.4	4,348.1	15.7	14.1	-149.68	303.8	86.0	409.7	385.6	24.07	17.023		
4,465.0	4,397.4	4,430.5	4,410.9	16.0	14.4	-149.46	308.9	88.0	413.0	388.7	24.36	16.954		
4,500.0	4,432.3	4,464.5	4,444.8	16.1	14.5	-149.33	311.4	89.0	414.4	389.9	24.52	16.903		
4,560.0	4,492.2	4,522.7	4,502.9	16.3	14.7	-149.10	315.2	90.4	416.1	391.4	24.76	16.809		
4,600.0	4,532.1	4,561.6	4,541.7	16.5	14.8	-148.93	317.5	91.3	416.8	391.9	24.91	16.731		
4,655.0	4,587.1	4,615.0	4,595.0	16.7	15.0	-148.69	320.2	92.3	417.1	392.0	25.09	16.628		
4,700.0	4,632.1	4,658.8	4,638.7	16.8	15.2	-148.48	322.0	93.0	416.9	391.7	25.22	16.528		
4,718.9	4,651.0	4,677.1	4,657.1	16.8	15.2	-91.73	322.7	93.3	416.7	391.4	25.25	16.502		
4,750.0	4,682.1	4,707.4	4,687.3	16.8	15.3	-91.59	323.7	93.7	416.2	391.0	25.28	16.468		
4,800.0	4,732.1	4,756.0	4,735.9	16.8	15.5	-91.41	325.1	94.2	415.7	390.4	25.32	16.415		
4,845.0	4,777.1	4,800.0	4,779.9	16.9	15.6	-91.29	325.9	94.5	415.3	389.9	25.38	16.364		
4,900.0	4,832.1	4,853.3	4,833.2	16.9	15.7	-91.21	326.5	94.7	415.1	389.6	25.44	16.315		
4,940.0	4,872.1	4,892.3	4,872.2	16.9	15.7	-91.19	326.7	94.8	415.0	389.5	25.49	16.279		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
4,962.2	4,894.3	4,914.3	4,894.2	16.9	15.7	-91.19	326.7	94.8	415.0	389.5	25.52	16.260	
5,000.0	4,932.1	4,952.1	4,932.0	16.9	15.8	-91.19	326.7	94.8	415.0	389.4	25.58	16.225	
5,035.0	4,967.1	4,987.1	4,967.0	17.0	15.8	-91.19	326.7	94.8	415.0	389.4	25.63	16.194	
5,100.0	5,032.1	5,052.1	5,032.0	17.0	15.8	-91.19	326.7	94.8	415.0	389.3	25.72	16.135	
5,130.0	5,062.1	5,082.1	5,062.0	17.0	15.8	-91.19	326.7	94.8	415.0	389.2	25.76	16.108	
5,200.0	5,132.1	5,152.1	5,132.0	17.0	15.9	-91.19	326.7	94.8	415.0	389.1	25.86	16.046	
5,225.0	5,157.1	5,177.1	5,157.0	17.1	15.9	-91.19	326.7	94.8	415.0	389.1	25.90	16.024	
5,300.0	5,232.1	5,252.1	5,232.0	17.1	15.9	-91.19	326.7	94.8	415.0	389.0	26.01	15.958	
5,320.0	5,252.1	5,272.1	5,252.0	17.1	16.0	-91.19	326.7	94.8	415.0	389.0	26.03	15.940	
5,400.0	5,332.1	5,352.1	5,332.0	17.1	16.0	-91.19	326.7	94.8	415.0	388.8	26.15	15.871	
5,415.0	5,347.1	5,367.1	5,347.0	17.2	16.0	-91.19	326.7	94.8	415.0	388.8	26.17	15.858	
5,500.0	5,432.1	5,452.1	5,432.0	17.2	16.1	-91.19	326.7	94.8	415.0	388.7	26.29	15.784	
5,510.0	5,442.1	5,462.1	5,442.0	17.2	16.1	-91.19	326.7	94.8	415.0	388.7	26.31	15.776	
5,600.0	5,532.1	5,552.1	5,532.0	17.2	16.1	-91.19	326.7	94.8	415.0	388.6	26.43	15.699	
5,605.0	5,537.1	5,557.1	5,537.0	17.3	16.1	-91.19	326.7	94.8	415.0	388.5	26.44	15.694	
5,700.0	5,632.1	5,652.1	5,632.0	17.3	16.2	-91.19	326.7	94.8	415.0	388.4	26.58	15.614	
5,795.0	5,727.1	5,747.1	5,727.0	17.4	16.2	-91.19	326.7	94.8	415.0	388.3	26.71	15.534	
5,800.0	5,732.1	5,752.1	5,732.0	17.4	16.3	-91.19	326.7	94.8	415.0	388.3	26.72	15.530	
5,890.0	5,822.1	5,842.1	5,822.0	17.4	16.3	-91.19	326.7	94.8	415.0	388.1	26.85	15.455	
5,900.0	5,832.1	5,852.1	5,832.0	17.4	16.3	-91.19	326.7	94.8	415.0	388.1	26.87	15.447	
5,985.0	5,917.1	5,937.1	5,917.0	17.5	16.4	-91.19	326.7	94.8	415.0	388.0	26.99	15.377	
6,000.0	5,932.1	5,952.1	5,932.0	17.5	16.4	-91.19	326.7	94.8	415.0	388.0	27.01	15.365	
6,080.0	6,012.1	6,032.1	6,012.0	17.5	16.4	-91.19	326.7	94.8	415.0	387.9	27.12	15.299	
6,100.0	6,032.1	6,052.1	6,032.0	17.5	16.4	-91.19	326.7	94.8	415.0	387.8	27.15	15.283	
6,175.0	6,107.1	6,127.1	6,107.0	17.6	16.5	-91.19	326.7	94.8	415.0	387.7	27.26	15.223	
6,200.0	6,132.1	6,152.1	6,132.0	17.6	16.5	-91.19	326.7	94.8	415.0	387.7	27.30	15.203	
6,270.0	6,202.1	6,222.1	6,202.0	17.6	16.5	-91.19	326.7	94.8	415.0	387.6	27.40	15.146	
6,300.0	6,232.1	6,252.1	6,232.0	17.6	16.6	-91.19	326.7	94.8	415.0	387.5	27.44	15.123	
6,365.0	6,297.1	6,317.1	6,297.0	17.7	16.6	-91.19	326.7	94.8	415.0	387.5	27.54	15.071	
6,400.0	6,332.1	6,352.1	6,332.0	17.7	16.6	-91.19	326.7	94.8	415.0	387.4	27.59	15.043	
6,460.0	6,392.1	6,412.1	6,392.0	17.7	16.7	-91.19	326.7	94.8	415.0	387.3	27.67	14.996	
6,500.0	6,432.1	6,452.1	6,432.0	17.7	16.7	-91.19	326.7	94.8	415.0	387.3	27.73	14.965	
6,555.0	6,487.1	6,507.1	6,487.0	17.8	16.7	-91.19	326.7	94.8	415.0	387.2	27.81	14.922	
6,600.0	6,532.1	6,552.1	6,532.0	17.8	16.7	-91.19	326.7	94.8	415.0	387.1	27.88	14.887	
6,650.0	6,582.1	6,602.1	6,582.0	17.8	16.8	-91.19	326.7	94.8	415.0	387.0	27.95	14.849	
6,700.0	6,632.1	6,652.1	6,632.0	17.8	16.8	-91.19	326.7	94.8	415.0	387.0	28.02	14.810	
6,745.0	6,677.1	6,697.1	6,677.0	17.9	16.8	-91.19	326.7	94.8	415.0	386.9	28.09	14.776	
6,800.0	6,732.1	6,752.1	6,732.0	17.9	16.9	-91.19	326.7	94.8	415.0	386.8	28.16	14.734	
6,840.0	6,772.1	6,792.1	6,772.0	17.9	16.9	-91.19	326.7	94.8	415.0	386.8	28.22	14.704	
6,900.0	6,832.1	6,852.1	6,832.0	17.9	16.9	-91.19	326.7	94.8	415.0	386.7	28.31	14.659	
6,935.0	6,867.1	6,887.1	6,867.0	18.0	17.0	-91.19	326.7	94.8	415.0	386.6	28.36	14.632	
7,000.0	6,932.1	6,952.1	6,932.0	18.0	17.0	-91.19	326.7	94.8	415.0	386.5	28.46	14.584	
7,030.0	6,962.1	6,982.1	6,962.0	18.0	17.0	-91.19	326.7	94.8	415.0	386.5	28.50	14.562	
7,100.0	7,032.1	7,052.1	7,032.0	18.1	17.1	-91.19	326.7	94.8	415.0	386.4	28.60	14.510	
7,125.0	7,057.1	7,077.1	7,057.0	18.1	17.1	-91.19	326.7	94.8	415.0	386.4	28.64	14.491	
7,200.0	7,132.1	7,152.1	7,132.0	18.1	17.1	-91.19	326.7	94.8	415.0	386.2	28.75	14.436	
7,220.0	7,152.1	7,172.1	7,152.0	18.1	17.1	-91.19	326.7	94.8	415.0	386.2	28.78	14.422	
7,300.0	7,232.1	7,252.1	7,232.0	18.2	17.2	-91.19	326.7	94.8	415.0	386.1	28.89	14.364	
7,315.0	7,247.1	7,267.1	7,247.0	18.2	17.2	-91.19	326.7	94.8	415.0	386.1	28.91	14.353	
7,400.0	7,332.1	7,352.1	7,332.0	18.2	17.3	-91.19	326.7	94.8	415.0	386.0	29.04	14.292	
7,410.0	7,342.1	7,362.1	7,342.0	18.2	17.3	-91.19	326.7	94.8	415.0	385.9	29.05	14.284	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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	7,432.1	7,452.1	7,432.0	18.3	17.3	-91.19	326.7	94.8	415.0	385.8	29.18	14.220
7,505.0	7,437.1	7,457.1	7,437.0	18.3	17.3	-91.19	326.7	94.8	415.0	385.8	29.19	14.217
7,600.0	7,532.1	7,552.1	7,532.0	18.3	17.4	-91.19	326.7	94.8	415.0	385.7	29.33	14.149
7,695.0	7,627.1	7,647.1	7,627.0	18.4	17.4	-91.19	326.7	94.8	415.0	385.5	29.47	14.083
7,700.0	7,632.1	7,652.1	7,632.0	18.4	17.4	-91.19	326.7	94.8	415.0	385.5	29.48	14.079
7,790.0	7,722.1	7,742.1	7,722.0	18.4	17.5	-91.19	326.7	94.8	415.0	385.4	29.61	14.017
7,800.0	7,732.1	7,752.1	7,732.0	18.4	17.5	-91.19	326.7	94.8	415.0	385.4	29.62	14.010
7,885.0	7,817.1	7,837.1	7,817.0	18.5	17.6	-91.19	326.7	94.8	415.0	385.2	29.75	13.951
7,900.0	7,832.1	7,852.1	7,832.0	18.5	17.6	-91.19	326.7	94.8	415.0	385.2	29.77	13.941
7,980.0	7,912.1	7,932.1	7,912.0	18.6	17.6	-91.19	326.7	94.8	415.0	385.1	29.88	13.886
8,000.0	7,932.1	7,952.1	7,932.0	18.6	17.6	-91.19	326.7	94.8	415.0	385.1	29.91	13.873
8,075.0	8,007.1	8,027.1	8,007.0	18.6	17.7	-91.19	326.7	94.8	415.0	385.0	30.02	13.822
8,100.0	8,032.1	8,052.1	8,032.0	18.6	17.7	-91.19	326.7	94.8	415.0	384.9	30.06	13.805
8,170.0	8,102.1	8,122.1	8,102.0	18.7	17.7	-91.19	326.7	94.8	415.0	384.8	30.16	13.758
8,200.0	8,132.1	8,152.1	8,132.0	18.7	17.8	-91.19	326.7	94.8	415.0	384.8	30.21	13.738
8,265.0	8,197.1	8,217.1	8,197.0	18.7	17.8	-91.19	326.7	94.8	415.0	384.7	30.30	13.695
8,300.0	8,232.1	8,252.1	8,232.0	18.7	17.8	-91.19	326.7	94.8	415.0	384.6	30.35	13.672
8,360.0	8,292.1	8,312.1	8,292.0	18.8	17.9	-91.19	326.7	94.8	415.0	384.5	30.44	13.632
8,400.0	8,332.1	8,352.1	8,332.0	18.8	17.9	-91.19	326.7	94.8	415.0	384.5	30.50	13.606
8,455.0	8,387.1	8,407.1	8,387.0	18.8	17.9	-91.19	326.7	94.8	415.0	384.4	30.57	13.575
8,456.0	8,388.1	8,408.1	8,388.0	18.8	17.9	-91.19	326.7	94.8	415.0	384.4	30.57	13.575
8,485.9	8,418.0	8,437.9	8,417.8	18.8	17.9	-91.20	326.6	94.8	415.0	384.4	30.59	13.564
8,500.0	8,432.1	8,451.6	8,431.5	18.8	17.9	93.92	326.3	94.8	415.0	384.4	30.60	13.563
8,550.0	8,482.0	8,500.0	8,479.7	18.9	18.0	93.79	322.3	94.8	415.4	384.8	30.61	13.568
8,600.0	8,531.4	8,549.4	8,528.4	18.9	18.1	93.63	314.1	94.7	416.1	385.5	30.63	13.586
8,645.0	8,575.1	8,593.3	8,571.0	18.9	18.1	93.47	303.3	94.6	417.2	386.6	30.63	13.621
8,650.0	8,579.9	8,598.2	8,575.7	18.9	18.1	93.45	301.9	94.6	417.3	386.7	30.63	13.625
8,700.0	8,627.2	8,647.0	8,621.6	18.9	18.2	93.23	285.8	94.5	418.9	388.3	30.62	13.681
8,740.0	8,663.9	8,685.9	8,657.3	18.9	18.3	93.05	270.1	94.3	420.5	389.9	30.61	13.737
8,750.0	8,672.9	8,695.7	8,666.0	19.0	18.3	93.00	265.8	94.3	420.9	390.3	30.61	13.753
8,800.0	8,716.6	8,744.3	8,708.5	19.0	18.3	92.74	242.2	94.1	423.3	392.7	30.59	13.839
8,835.0	8,745.9	8,778.3	8,737.0	19.0	18.4	92.54	223.5	93.9	425.2	394.6	30.57	13.907
8,850.0	8,758.1	8,792.9	8,748.9	19.0	18.4	92.46	215.0	93.9	426.1	395.5	30.57	13.938
8,900.0	8,797.0	8,841.5	8,786.7	19.1	18.5	92.16	184.6	93.6	429.1	398.6	30.55	14.047
8,930.0	8,819.0	8,870.7	8,808.2	19.1	18.5	91.97	164.8	93.5	431.1	400.6	30.54	14.117
8,950.0	8,833.0	8,890.1	8,821.9	19.1	18.5	91.85	151.1	93.3	432.5	402.0	30.53	14.165
9,000.0	8,865.9	8,938.7	8,854.0	19.1	18.6	91.52	114.7	93.0	436.2	405.7	30.53	14.289
9,025.0	8,881.0	8,963.0	8,868.9	19.2	18.6	91.36	95.5	92.9	438.1	407.6	30.53	14.352
9,050.0	8,895.3	8,987.3	8,883.0	19.2	18.7	91.19	75.7	92.7	440.1	409.6	30.53	14.416
9,100.0	8,921.1	9,035.8	8,908.5	19.2	18.7	90.85	34.4	92.4	444.3	413.8	30.55	14.545
9,120.0	8,930.4	9,055.3	8,917.8	19.3	18.7	90.71	17.3	92.2	446.0	415.5	30.56	14.595
9,150.0	8,943.1	9,084.5	8,930.5	19.3	18.8	90.50	-8.9	92.0	448.7	418.1	30.58	14.671
9,200.0	8,961.1	9,133.1	8,948.8	19.3	18.8	90.15	-54.0	91.7	453.2	422.6	30.64	14.794
9,215.0	8,965.7	9,147.7	8,953.5	19.4	18.8	90.05	-67.8	91.5	454.6	424.0	30.66	14.830
9,250.0	8,975.0	9,181.8	8,963.2	19.4	18.8	89.81	-100.5	91.3	457.9	427.2	30.71	14.910
9,300.0	8,984.6	9,230.6	8,973.5	19.5	18.9	89.46	-148.2	90.9	462.7	431.9	30.81	15.019
9,310.0	8,986.0	9,240.3	8,975.1	19.5	18.9	89.40	-157.8	90.8	463.7	432.8	30.83	15.039
9,350.0	8,989.9	9,279.4	8,979.8	19.5	18.9	89.13	-196.6	90.5	467.5	436.6	30.93	15.117
9,385.7	8,991.0	9,314.3	8,981.8	19.6	18.9	88.89	-231.4	90.2	471.0	440.0	31.03	15.182
9,400.0	8,991.0	9,328.4	8,982.0	19.6	18.9	88.92	-245.5	90.1	472.4	441.3	31.07	15.206
9,405.0	8,991.0	9,333.4	8,982.0	19.6	18.9	88.92	-250.4	90.0	472.8	441.8	31.09	15.211

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS						Rule Assigned:				Offset Well Error:	3.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,500.0	8,991.1	9,428.1	8,982.0	19.8	18.9	88.94	-345.2	89.2	479.9	448.5	31.48	15.245		
9,595.0	8,991.1	9,523.0	8,982.1	19.9	19.0	88.95	-440.1	88.5	483.9	452.0	31.94	15.149		
9,600.0	8,991.1	9,528.0	8,982.1	19.9	19.0	88.95	-445.1	88.4	484.0	452.1	31.97	15.140		
9,666.8	8,991.1	9,594.8	8,982.1	20.1	19.0	88.95	-511.9	87.9	484.8	452.5	32.31	15.005		
9,690.0	8,991.1	9,618.0	8,982.1	20.1	19.0	88.95	-535.1	87.7	484.8	452.4	32.43	14.948		
9,700.0	8,991.1	9,628.0	8,982.1	20.1	19.0	88.95	-545.1	87.6	484.8	452.3	32.49	14.923		
9,785.0	8,991.2	9,713.0	8,982.2	20.3	19.1	88.95	-630.1	86.9	484.8	451.8	32.98	14.699		
9,800.0	8,991.2	9,728.0	8,982.2	20.3	19.1	88.95	-645.1	86.8	484.8	451.7	33.07	14.658		
9,880.0	8,991.2	9,808.0	8,982.2	20.5	19.1	88.95	-725.1	86.1	484.8	451.2	33.59	14.435		
9,900.0	8,991.2	9,828.0	8,982.2	20.6	19.1	88.95	-745.1	85.9	484.8	451.1	33.72	14.378		
9,975.0	8,991.3	9,903.0	8,982.3	20.7	19.2	88.95	-820.1	85.3	484.8	450.6	34.24	14.159		
10,000.0	8,991.3	9,928.0	8,982.3	20.8	19.2	88.95	-845.1	85.1	484.8	450.4	34.42	14.084		
10,070.0	8,991.3	9,998.0	8,982.3	21.0	19.3	88.95	-915.1	84.5	484.8	449.9	34.94	13.873		
10,100.0	8,991.3	10,028.0	8,982.3	21.1	19.3	88.95	-945.1	84.3	484.8	449.6	35.18	13.782		
10,165.0	8,991.4	10,093.0	8,982.4	21.3	19.4	88.95	-1,010.1	83.8	484.8	449.1	35.69	13.582		
10,200.0	8,991.4	10,128.0	8,982.4	21.4	19.4	88.95	-1,045.1	83.5	484.8	448.8	35.98	13.474		
10,260.0	8,991.4	10,188.0	8,982.4	21.5	19.5	88.95	-1,105.0	83.0	484.8	448.3	36.49	13.287		
10,300.0	8,991.4	10,228.0	8,982.4	21.7	19.5	88.95	-1,145.0	82.6	484.8	448.0	36.83	13.164		
10,355.0	8,991.5	10,283.0	8,982.4	21.8	19.6	88.95	-1,200.0	82.2	484.8	447.5	37.32	12.992		
10,400.0	8,991.5	10,328.0	8,982.5	22.0	19.7	88.95	-1,245.0	81.8	484.8	447.1	37.72	12.852		
10,450.0	8,991.5	10,378.0	8,982.5	22.2	19.7	88.95	-1,295.0	81.4	484.8	446.6	38.18	12.696		
10,500.0	8,991.5	10,428.0	8,982.5	22.3	19.8	88.95	-1,345.0	81.0	484.8	446.2	38.65	12.542		
10,545.0	8,991.5	10,473.0	8,982.5	22.5	19.9	88.95	-1,390.0	80.6	484.8	445.7	39.09	12.403		
10,600.0	8,991.6	10,528.0	8,982.6	22.7	20.0	88.95	-1,445.0	80.2	484.8	445.2	39.62	12.236		
10,640.0	8,991.6	10,568.0	8,982.6	22.9	20.1	88.95	-1,485.0	79.8	484.8	444.8	40.02	12.114		
10,700.0	8,991.6	10,628.0	8,982.6	23.1	20.3	88.95	-1,545.0	79.3	484.8	444.2	40.62	11.934		
10,735.0	8,991.6	10,663.0	8,982.6	23.3	20.4	88.95	-1,580.0	79.0	484.8	443.8	40.99	11.829		
10,800.0	8,991.7	10,728.0	8,982.7	23.5	20.6	88.95	-1,645.0	78.5	484.8	443.1	41.66	11.637		
10,830.0	8,991.7	10,758.0	8,982.7	23.7	20.7	88.95	-1,675.0	78.3	484.8	442.8	41.98	11.549		
10,900.0	8,991.7	10,828.0	8,982.7	24.0	21.0	88.95	-1,745.0	77.7	484.8	442.1	42.72	11.348		
10,925.0	8,991.7	10,853.0	8,982.7	24.1	21.1	88.95	-1,770.0	77.5	484.8	441.8	43.00	11.276		
11,000.0	8,991.8	10,928.0	8,982.7	24.4	21.4	88.95	-1,845.0	76.9	484.8	441.0	43.81	11.065		
11,020.0	8,991.8	10,948.0	8,982.8	24.5	21.5	88.95	-1,865.0	76.7	484.8	440.8	44.04	11.009		
11,100.0	8,991.8	11,028.0	8,982.8	24.9	21.8	88.95	-1,945.0	76.0	484.8	439.9	44.93	10.790		
11,115.0	8,991.8	11,043.0	8,982.8	24.9	21.9	88.95	-1,960.0	75.9	484.8	439.7	45.10	10.749		
11,200.0	8,991.8	11,128.0	8,982.8	25.4	22.3	88.95	-2,045.0	75.2	484.8	438.7	46.07	10.523		
11,210.0	8,991.9	11,138.0	8,982.8	25.4	22.4	88.95	-2,055.0	75.1	484.8	438.6	46.19	10.497		
11,300.0	8,991.9	11,228.0	8,982.9	25.8	22.8	88.95	-2,145.0	74.4	484.8	437.6	47.23	10.264		
11,305.0	8,991.9	11,233.0	8,982.9	25.9	22.9	88.95	-2,150.0	74.3	484.8	437.5	47.29	10.251		
11,400.0	8,991.9	11,328.0	8,982.9	26.4	23.4	88.95	-2,245.0	73.6	484.8	436.4	48.41	10.014		
11,495.0	8,992.0	11,423.0	8,983.0	26.9	23.9	88.95	-2,340.0	72.8	484.8	435.3	49.56	9.783		
11,500.0	8,992.0	11,428.0	8,983.0	26.9	23.9	88.95	-2,345.0	72.7	484.8	435.2	49.62	9.771		
11,590.0	8,992.0	11,518.0	8,983.0	27.4	24.5	88.95	-2,435.0	72.0	484.8	434.1	50.71	9.560		
11,600.0	8,992.0	11,528.0	8,983.0	27.4	24.5	88.95	-2,445.0	71.9	484.8	434.0	50.83	9.537		
11,685.0	8,992.1	11,613.0	8,983.1	27.9	25.0	88.95	-2,530.0	71.2	484.8	432.9	51.88	9.345		
11,700.0	8,992.1	11,628.0	8,983.1	28.0	25.1	88.95	-2,545.0	71.1	484.8	432.7	52.07	9.311		
11,780.0	8,992.1	11,708.0	8,983.1	28.4	25.6	88.95	-2,625.0	70.4	484.8	431.7	53.07	9.136		
11,800.0	8,992.1	11,728.0	8,983.1	28.5	25.8	88.95	-2,645.0	70.3	484.8	431.5	53.32	9.093		
11,875.0	8,992.2	11,803.0	8,983.2	29.0	26.2	88.95	-2,720.0	69.6	484.8	430.6	54.26	8.934		
11,900.0	8,992.2	11,828.0	8,983.2	29.1	26.4	88.95	-2,745.0	69.4	484.8	430.2	54.58	8.883		
11,970.0	8,992.2	11,898.0	8,983.2	29.5	26.8	88.95	-2,815.0	68.8	484.8	429.3	55.47	8.740		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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
12,000.0	8,992.2	11,928.0	8,983.2	29.7	27.0	88.95	-2,845.0	68.6	484.8	429.0	55.86	8.680
12,065.0	8,992.2	11,993.0	8,983.2	30.1	27.4	88.95	-2,910.0	68.1	484.8	428.1	56.69	8.552
12,100.0	8,992.3	12,028.0	8,983.3	30.3	27.7	88.95	-2,945.0	67.8	484.8	427.7	57.15	8.484
12,160.0	8,992.3	12,088.0	8,983.3	30.6	28.1	88.95	-3,005.0	67.3	484.8	426.9	57.92	8.370
12,200.0	8,992.3	12,128.0	8,983.3	30.9	28.3	88.95	-3,045.0	66.9	484.8	426.4	58.45	8.295
12,255.0	8,992.3	12,183.0	8,983.3	31.2	28.7	88.95	-3,100.0	66.5	484.8	425.7	59.17	8.194
12,300.0	8,992.4	12,228.0	8,983.4	31.5	29.0	88.95	-3,145.0	66.1	484.8	425.1	59.76	8.113
12,350.0	8,992.4	12,278.0	8,983.4	31.8	29.3	88.95	-3,195.0	65.7	484.8	424.4	60.42	8.025
12,400.0	8,992.4	12,328.0	8,983.4	32.1	29.7	88.95	-3,245.0	65.3	484.8	423.7	61.08	7.938
12,445.0	8,992.4	12,373.0	8,983.4	32.4	30.0	88.95	-3,290.0	64.9	484.8	423.1	61.68	7.861
12,500.0	8,992.5	12,428.0	8,983.4	32.7	30.3	88.95	-3,345.0	64.5	484.8	422.4	62.41	7.769
12,540.0	8,992.5	12,468.0	8,983.5	33.0	30.6	88.95	-3,385.0	64.1	484.8	421.9	62.94	7.703
12,600.0	8,992.5	12,528.0	8,983.5	33.3	31.0	88.95	-3,445.0	63.6	484.8	421.1	63.75	7.605
12,635.0	8,992.5	12,563.0	8,983.5	33.6	31.2	88.95	-3,480.0	63.4	484.8	420.6	64.22	7.550
12,700.0	8,992.5	12,628.0	8,983.5	34.0	31.7	88.95	-3,545.0	62.8	484.8	419.7	65.09	7.448
12,730.0	8,992.6	12,658.0	8,983.6	34.2	31.9	88.95	-3,575.0	62.6	484.8	419.3	65.50	7.402
12,800.0	8,992.6	12,728.0	8,983.6	34.6	32.4	88.95	-3,645.0	62.0	484.8	418.4	66.45	7.296
12,825.0	8,992.6	12,753.0	8,983.6	34.8	32.6	88.95	-3,670.0	61.8	484.8	418.0	66.79	7.259
12,900.0	8,992.6	12,828.0	8,983.6	35.3	33.1	88.95	-3,745.0	61.2	484.8	417.0	67.81	7.150
12,920.0	8,992.6	12,848.0	8,983.6	35.4	33.2	88.95	-3,765.0	61.0	484.8	416.7	68.09	7.121
13,000.0	8,992.7	12,928.0	8,983.7	35.9	33.8	88.95	-3,845.0	60.3	484.8	415.6	69.18	7.008
13,015.0	8,992.7	12,943.0	8,983.7	36.0	33.9	88.95	-3,860.0	60.2	484.8	415.4	69.39	6.987
13,100.0	8,992.7	13,028.0	8,983.7	36.6	34.5	88.95	-3,945.0	59.5	484.8	414.3	70.56	6.871
13,110.0	8,992.7	13,038.0	8,983.7	36.6	34.5	88.95	-3,955.0	59.4	484.8	414.1	70.69	6.858
13,200.0	8,992.8	13,128.0	8,983.8	37.2	35.2	88.95	-4,044.9	58.7	484.8	412.9	71.94	6.739
13,205.0	8,992.8	13,133.0	8,983.8	37.3	35.2	88.95	-4,049.9	58.6	484.8	412.8	72.01	6.733
13,300.0	8,992.8	13,228.0	8,983.8	37.9	35.9	88.95	-4,144.9	57.9	484.8	411.5	73.33	6.612
13,395.0	8,992.9	13,323.0	8,983.9	38.5	36.5	88.95	-4,239.9	57.1	484.8	410.2	74.65	6.495
13,400.0	8,992.9	13,328.0	8,983.9	38.6	36.6	88.95	-4,244.9	57.0	484.8	410.1	74.72	6.489
13,490.0	8,992.9	13,418.0	8,983.9	39.2	37.2	88.95	-4,334.9	56.3	484.8	408.8	75.98	6.381
13,500.0	8,992.9	13,428.0	8,983.9	39.2	37.3	88.95	-4,344.9	56.2	484.8	408.7	76.12	6.369
13,585.0	8,993.0	13,513.0	8,984.0	39.8	37.9	88.95	-4,429.9	55.5	484.8	407.5	77.31	6.271
13,600.0	8,993.0	13,528.0	8,984.0	39.9	38.0	88.95	-4,444.9	55.4	484.8	407.3	77.52	6.254
13,680.0	8,993.0	13,608.0	8,984.0	40.5	38.6	88.95	-4,524.9	54.7	484.8	406.2	78.65	6.165
13,700.0	8,993.0	13,628.0	8,984.0	40.6	38.7	88.95	-4,544.9	54.6	484.8	405.9	78.93	6.143
13,775.0	8,993.0	13,703.0	8,984.0	41.1	39.3	88.95	-4,619.9	53.9	484.8	404.8	79.99	6.061
13,800.0	8,993.1	13,728.0	8,984.1	41.3	39.4	88.95	-4,644.9	53.7	484.8	404.5	80.34	6.035
13,870.0	8,993.1	13,798.0	8,984.1	41.8	39.9	88.95	-4,714.9	53.2	484.8	403.5	81.33	5.961
13,900.0	8,993.1	13,828.0	8,984.1	42.0	40.2	88.95	-4,744.9	52.9	484.8	403.1	81.76	5.930
13,965.0	8,993.1	13,893.0	8,984.1	42.4	40.6	88.95	-4,809.9	52.4	484.8	402.2	82.68	5.864
14,000.0	8,993.2	13,928.0	8,984.1	42.6	40.9	88.95	-4,844.9	52.1	484.8	401.7	83.18	5.829
14,060.0	8,993.2	13,988.0	8,984.2	43.1	41.3	88.95	-4,904.9	51.6	484.8	400.8	84.03	5.770
14,100.0	8,993.2	14,028.0	8,984.2	43.3	41.6	88.95	-4,944.9	51.3	484.8	400.2	84.60	5.731
14,155.0	8,993.2	14,083.0	8,984.2	43.7	42.0	88.95	-4,999.9	50.8	484.8	399.4	85.39	5.678
14,200.0	8,993.2	14,128.0	8,984.2	44.0	42.3	88.95	-5,044.9	50.4	484.8	398.8	86.03	5.636
14,250.0	8,993.3	14,178.0	8,984.3	44.4	42.7	88.95	-5,094.9	50.0	484.8	398.1	86.74	5.589
14,300.0	8,993.3	14,228.0	8,984.3	44.7	43.0	88.95	-5,144.9	49.6	484.8	397.4	87.46	5.544
14,345.0	8,993.3	14,273.0	8,984.3	45.0	43.4	88.95	-5,189.9	49.2	484.8	396.7	88.10	5.503
14,400.0	8,993.3	14,328.0	8,984.3	45.4	43.8	88.95	-5,244.9	48.8	484.8	395.9	88.89	5.454
14,440.0	8,993.4	14,368.0	8,984.4	45.7	44.1	88.95	-5,284.9	48.4	484.8	395.4	89.47	5.419
14,500.0	8,993.4	14,428.0	8,984.4	46.1	44.5	88.95	-5,344.9	47.9	484.8	394.5	90.33	5.367

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Offset		Semi Major Axis		Offset Wellbore Centre			Distance		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			
14,535.0	8,993.4	14,463.0	8,984.4	46.4	44.8	88.95	-5,379.9	47.7	484.8	394.0	90.83	5.338		
14,600.0	8,993.4	14,528.0	8,984.4	46.8	45.2	88.95	-5,444.9	47.1	484.8	393.1	91.77	5.283		
14,630.0	8,993.4	14,558.0	8,984.4	47.0	45.4	88.95	-5,474.9	46.9	484.8	392.6	92.20	5.258		
14,700.0	8,993.5	14,628.0	8,984.5	47.5	46.0	88.95	-5,544.9	46.3	484.8	391.6	93.21	5.201		
14,725.0	8,993.5	14,653.0	8,984.5	47.7	46.1	88.95	-5,569.9	46.1	484.8	391.3	93.57	5.181		
14,800.0	8,993.5	14,728.0	8,984.5	48.2	46.7	88.95	-5,644.9	45.5	484.8	390.2	94.66	5.122		
14,820.0	8,993.5	14,748.0	8,984.5	48.4	46.8	88.95	-5,664.9	45.3	484.8	389.9	94.95	5.106		
14,900.0	8,993.6	14,828.0	8,984.6	48.9	47.4	88.95	-5,744.9	44.6	484.8	388.7	96.11	5.045		
14,915.0	8,993.6	14,843.0	8,984.6	49.1	47.5	88.95	-5,759.9	44.5	484.8	388.5	96.32	5.033		
15,000.0	8,993.6	14,928.0	8,984.6	49.7	48.2	88.95	-5,844.9	43.8	484.8	387.3	97.56	4.970		
15,010.0	8,993.6	14,938.0	8,984.6	49.7	48.2	88.95	-5,854.9	43.7	484.8	387.1	97.70	4.962		
15,100.0	8,993.7	15,028.0	8,984.7	50.4	48.9	88.95	-5,944.9	43.0	484.8	385.8	99.01	4.897		
15,105.0	8,993.7	15,033.0	8,984.7	50.4	48.9	88.95	-5,949.9	42.9	484.8	385.8	99.08	4.893		
15,200.0	8,993.7	15,128.0	8,984.7	51.1	49.6	88.95	-6,044.9	42.2	484.8	384.4	100.46	4.826		
15,295.0	8,993.8	15,223.0	8,984.8	51.8	50.3	88.95	-6,139.9	41.4	484.8	383.0	101.85	4.760		
15,300.0	8,993.8	15,228.0	8,984.8	51.8	50.4	88.95	-6,144.9	41.3	484.8	382.9	101.92	4.757		
15,390.0	8,993.8	15,318.0	8,984.8	52.4	51.0	88.95	-6,234.9	40.6	484.8	381.6	103.24	4.696		
15,400.0	8,993.8	15,328.0	8,984.8	52.5	51.1	88.95	-6,244.9	40.5	484.8	381.5	103.38	4.690		
15,485.0	8,993.8	15,413.0	8,984.8	53.1	51.7	88.95	-6,329.9	39.8	484.8	380.2	104.62	4.634		
15,500.0	8,993.8	15,428.0	8,984.8	53.2	51.8	88.95	-6,344.9	39.7	484.8	380.0	104.84	4.624		
15,580.0	8,993.9	15,508.0	8,984.9	53.8	52.4	88.95	-6,424.9	39.0	484.8	378.8	106.01	4.573		
15,600.0	8,993.9	15,528.0	8,984.9	54.0	52.6	88.95	-6,444.9	38.9	484.8	378.5	106.31	4.561		
15,675.0	8,993.9	15,603.0	8,984.9	54.5	53.1	88.95	-6,519.9	38.2	484.8	377.4	107.40	4.514		
15,700.0	8,993.9	15,628.0	8,984.9	54.7	53.3	88.95	-6,544.9	38.0	484.8	377.1	107.77	4.499		
15,770.0	8,994.0	15,698.0	8,985.0	55.2	53.8	88.95	-6,614.9	37.5	484.8	376.0	108.80	4.456		
15,800.0	8,994.0	15,728.0	8,985.0	55.4	54.0	88.95	-6,644.9	37.2	484.8	375.6	109.24	4.438		
15,865.0	8,994.0	15,793.0	8,985.0	55.9	54.5	88.95	-6,709.9	36.7	484.8	374.7	110.19	4.400		
15,900.0	8,994.0	15,828.0	8,985.0	56.1	54.8	88.95	-6,744.9	36.4	484.8	374.1	110.71	4.380		
15,960.0	8,994.1	15,888.0	8,985.1	56.6	55.2	88.95	-6,804.9	35.9	484.8	373.3	111.59	4.345		
16,000.0	8,994.1	15,928.0	8,985.1	56.8	55.5	88.95	-6,844.9	35.6	484.8	372.7	112.18	4.322		
16,055.0	8,994.1	15,983.0	8,985.1	57.2	55.9	88.95	-6,899.9	35.1	484.8	371.9	112.98	4.291		
16,100.0	8,994.1	16,028.0	8,985.1	57.6	56.3	88.95	-6,944.8	34.7	484.8	371.2	113.65	4.266		
16,150.0	8,994.2	16,078.0	8,985.2	57.9	56.6	88.95	-6,994.8	34.3	484.8	370.5	114.38	4.239		
16,200.0	8,994.2	16,128.0	8,985.2	58.3	57.0	88.95	-7,044.8	33.9	484.8	369.7	115.12	4.212		
16,245.0	8,994.2	16,173.0	8,985.2	58.6	57.4	88.95	-7,089.8	33.5	484.8	369.1	115.78	4.188		
16,300.0	8,994.2	16,228.0	8,985.2	59.0	57.8	88.95	-7,144.8	33.1	484.8	368.3	116.59	4.158		
16,340.0	8,994.2	16,268.0	8,985.2	59.3	58.1	88.95	-7,184.8	32.7	484.8	367.7	117.18	4.137		
16,400.0	8,994.3	16,328.0	8,985.3	59.7	58.5	88.95	-7,244.8	32.3	484.8	366.8	118.07	4.106		
16,435.0	8,994.3	16,363.0	8,985.3	60.0	58.8	88.95	-7,279.8	32.0	484.8	366.3	118.59	4.089		
16,500.0	8,994.3	16,428.0	8,985.3	60.5	59.2	88.95	-7,344.8	31.4	484.8	365.3	119.55	4.056		
16,530.0	8,994.3	16,458.0	8,985.3	60.7	59.5	88.95	-7,374.8	31.2	484.8	364.9	119.99	4.041		
16,600.0	8,994.4	16,528.0	8,985.4	61.2	60.0	88.95	-7,444.8	30.6	484.8	363.8	121.02	4.006		
16,625.0	8,994.4	16,553.0	8,985.4	61.4	60.2	88.95	-7,469.8	30.4	484.8	363.5	121.39	3.994		
16,700.0	8,994.4	16,628.0	8,985.4	61.9	60.7	88.95	-7,544.8	29.8	484.9	362.3	122.50	3.958		
16,720.0	8,994.4	16,648.0	8,985.4	62.1	60.9	88.95	-7,564.8	29.6	484.9	362.1	122.80	3.948		
16,800.0	8,994.5	16,728.0	8,985.5	62.7	61.5	88.95	-7,644.8	28.9	484.9	360.9	123.98	3.911		
16,815.0	8,994.5	16,743.0	8,985.5	62.8	61.6	88.95	-7,659.8	28.8	484.9	360.6	124.21	3.904		
16,900.0	8,994.5	16,828.0	8,985.5	63.4	62.2	88.95	-7,744.8	28.1	484.9	359.4	125.47	3.864		
16,910.0	8,994.5	16,838.0	8,985.5	63.5	62.3	88.95	-7,754.8	28.0	484.9	359.2	125.61	3.860		
17,000.0	8,994.5	16,928.0	8,985.5	64.1	63.0	88.95	-7,844.8	27.3	484.9	357.9	126.95	3.819		
17,005.0	8,994.6	16,933.0	8,985.6	64.2	63.0	88.95	-7,849.8	27.3	484.9	357.8	127.02	3.817		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Offset	Vertical	Semi Major Axis	Offset	Highside	Offset Wellbore Centre		Distance		Minimum	Separation
Measured	Depth	Depth	Depth	Reference	Offset	Toolface	+N/-S	+E/-W	Between	Between	Separation	Factor
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	(usft)	(usft)	Centres	Ellipses	(usft)	Warning
17,100.0	8,994.6	17,028.0	8,985.6	64.9	63.7	88.95	-7,944.8	26.5	484.9	356.4	128.43	3.775
17,195.0	8,994.6	17,123.0	8,985.6	65.6	64.4	88.95	-8,039.8	25.7	484.9	355.0	129.84	3.734
17,200.0	8,994.6	17,128.0	8,985.6	65.6	64.5	88.95	-8,044.8	25.6	484.9	354.9	129.92	3.732
17,290.0	8,994.7	17,218.0	8,985.7	66.3	65.1	88.95	-8,134.8	24.9	484.9	353.6	131.26	3.694
17,300.0	8,994.7	17,228.0	8,985.7	66.3	65.2	88.95	-8,144.8	24.8	484.9	353.5	131.40	3.690
17,385.0	8,994.7	17,313.0	8,985.7	67.0	65.9	88.95	-8,229.8	24.1	484.9	352.2	132.67	3.655
17,400.0	8,994.7	17,328.0	8,985.7	67.1	66.0	88.95	-8,244.8	24.0	484.9	352.0	132.89	3.649
17,480.0	8,994.8	17,408.0	8,985.8	67.7	66.6	88.95	-8,324.8	23.3	484.9	350.8	134.08	3.616
17,500.0	8,994.8	17,428.0	8,985.8	67.8	66.7	88.95	-8,344.8	23.2	484.9	350.5	134.38	3.608
17,575.0	8,994.8	17,503.0	8,985.8	68.4	67.3	88.95	-8,419.8	22.5	484.9	349.4	135.50	3.578
17,600.0	8,994.8	17,528.0	8,985.8	68.5	67.5	88.95	-8,444.8	22.3	484.9	349.0	135.87	3.569
17,670.0	8,994.9	17,598.0	8,985.9	69.1	68.0	88.95	-8,514.8	21.8	484.9	347.9	136.91	3.541
17,700.0	8,994.9	17,628.0	8,985.9	69.3	68.2	88.95	-8,544.8	21.5	484.9	347.5	137.36	3.530
17,765.0	8,994.9	17,693.0	8,985.9	69.8	68.7	88.95	-8,609.8	21.0	484.9	346.5	138.33	3.505
17,800.0	8,994.9	17,728.0	8,985.9	70.0	69.0	88.95	-8,644.8	20.7	484.9	346.0	138.85	3.492
17,860.0	8,994.9	17,788.0	8,985.9	70.5	69.4	88.95	-8,704.8	20.2	484.9	345.1	139.74	3.470
17,900.0	8,995.0	17,828.0	8,986.0	70.8	69.7	88.95	-8,744.8	19.9	484.9	344.5	140.34	3.455
17,955.0	8,995.0	17,883.0	8,986.0	71.2	70.1	88.95	-8,799.8	19.4	484.9	343.7	141.16	3.435
18,000.0	8,995.0	17,928.0	8,986.0	71.5	70.5	88.95	-8,844.8	19.0	484.9	343.0	141.83	3.419
18,050.0	8,995.0	17,978.0	8,986.0	71.9	70.8	88.95	-8,894.8	18.6	484.9	342.3	142.58	3.401
18,100.0	8,995.1	18,028.0	8,986.1	72.2	71.2	88.95	-8,944.8	18.2	484.9	341.5	143.32	3.383
18,145.0	8,995.1	18,073.0	8,986.1	72.6	71.6	88.95	-8,989.8	17.8	484.9	340.9	144.00	3.367
18,200.0	8,995.1	18,128.0	8,986.1	73.0	72.0	88.95	-9,044.8	17.4	484.9	340.0	144.82	3.348
18,240.0	8,995.1	18,168.0	8,986.1	73.3	72.3	88.95	-9,084.8	17.1	484.9	339.4	145.41	3.334
18,300.0	8,995.2	18,228.0	8,986.2	73.7	72.7	88.95	-9,144.8	16.6	484.9	338.6	146.31	3.314
18,335.0	8,995.2	18,263.0	8,986.2	74.0	73.0	88.95	-9,179.8	16.3	484.9	338.0	146.83	3.302
18,400.0	8,995.2	18,328.0	8,986.2	74.5	73.5	88.95	-9,244.8	15.7	484.9	337.1	147.81	3.280
18,430.0	8,995.2	18,358.0	8,986.2	74.7	73.7	88.95	-9,274.8	15.5	484.9	336.6	148.25	3.270
18,500.0	8,995.2	18,428.0	8,986.2	75.2	74.2	88.95	-9,344.8	14.9	484.9	335.6	149.30	3.248
18,525.0	8,995.3	18,453.0	8,986.3	75.4	74.4	88.95	-9,369.8	14.7	484.9	335.2	149.68	3.239
18,600.0	8,995.3	18,528.0	8,986.3	76.0	75.0	88.95	-9,444.8	14.1	484.9	334.1	150.80	3.215
18,620.0	8,995.3	18,548.0	8,986.3	76.1	75.1	88.95	-9,464.8	13.9	484.9	333.8	151.10	3.209
18,700.0	8,995.3	18,628.0	8,986.3	76.7	75.7	88.95	-9,544.8	13.3	484.9	332.6	152.29	3.184
18,715.0	8,995.3	18,643.0	8,986.3	76.8	75.8	88.95	-9,559.8	13.1	484.9	332.3	152.52	3.179
18,800.0	8,995.4	18,728.0	8,986.4	77.4	76.5	88.95	-9,644.8	12.4	484.9	331.1	153.79	3.153
18,810.0	8,995.4	18,738.0	8,986.4	77.5	76.6	88.95	-9,654.8	12.3	484.9	330.9	153.94	3.150
18,900.0	8,995.4	18,828.0	8,986.4	78.2	77.2	88.95	-9,744.8	11.6	484.9	329.6	155.29	3.122
18,905.0	8,995.4	18,833.0	8,986.4	78.2	77.3	88.95	-9,749.8	11.6	484.9	329.5	155.37	3.121
19,000.0	8,995.5	18,928.0	8,986.5	78.9	78.0	88.95	-9,844.7	10.8	484.9	328.1	156.79	3.092
19,095.0	8,995.5	19,023.0	8,986.5	79.6	78.7	88.95	-9,939.7	10.0	484.9	326.7	158.21	3.065
19,100.0	8,995.5	19,028.0	8,986.5	79.7	78.7	88.95	-9,944.7	9.9	484.9	326.6	158.29	3.063
19,190.0	8,995.6	19,118.0	8,986.6	80.3	79.4	88.95	-10,034.7	9.2	484.9	325.2	159.64	3.037
19,200.0	8,995.6	19,128.0	8,986.6	80.4	79.5	88.95	-10,044.7	9.1	484.9	325.1	159.79	3.034
19,285.0	8,995.6	19,213.0	8,986.6	81.0	80.1	88.95	-10,129.7	8.4	484.9	323.8	161.06	3.010
19,300.0	8,995.6	19,228.0	8,986.6	81.2	80.2	88.95	-10,144.7	8.3	484.9	323.6	161.29	3.006
19,380.0	8,995.7	19,308.0	8,986.7	81.8	80.8	88.95	-10,224.7	7.6	484.9	322.4	162.49	2.984
19,400.0	8,995.7	19,328.0	8,986.7	81.9	81.0	88.95	-10,244.7	7.5	484.9	322.1	162.79	2.979
19,475.0	8,995.7	19,403.0	8,986.7	82.5	81.6	88.95	-10,319.7	6.9	484.9	321.0	163.92	2.958
19,500.0	8,995.7	19,428.0	8,986.7	82.7	81.7	88.95	-10,344.7	6.6	484.9	320.6	164.29	2.951
19,570.0	8,995.7	19,498.0	8,986.7	83.2	82.3	88.95	-10,414.7	6.1	484.9	319.5	165.34	2.933
19,600.0	8,995.8	19,528.0	8,986.8	83.4	82.5	88.95	-10,444.7	5.8	484.9	319.1	165.79	2.925

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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)		
19,665.0	8,995.8	19,593.0	8,986.8	83.9	83.0	88.95	-10,509.7	5.3	484.9	318.1	166.77	2.907	
19,700.0	8,995.8	19,628.0	8,986.8	84.1	83.3	88.95	-10,544.7	5.0	484.9	317.6	167.29	2.898	
19,760.0	8,995.8	19,688.0	8,986.8	84.6	83.7	88.95	-10,604.7	4.5	484.9	316.7	168.20	2.883	
19,800.0	8,995.9	19,728.0	8,986.9	84.9	84.0	88.95	-10,644.7	4.2	484.9	316.1	168.80	2.873	
19,855.0	8,995.9	19,783.0	8,986.9	85.3	84.4	88.95	-10,699.7	3.7	484.9	315.2	169.62	2.859	
19,900.0	8,995.9	19,828.0	8,986.9	85.6	84.8	88.95	-10,744.7	3.3	484.9	314.6	170.30	2.847	
19,950.0	8,995.9	19,878.0	8,986.9	86.0	85.1	88.95	-10,794.7	2.9	484.9	313.8	171.05	2.835	
20,000.0	8,995.9	19,928.0	8,986.9	86.4	85.5	88.95	-10,844.7	2.5	484.9	313.1	171.80	2.822	
20,045.0	8,996.0	19,973.0	8,987.0	86.7	85.9	88.95	-10,889.7	2.1	484.9	312.4	172.48	2.811	
20,100.0	8,996.0	20,028.0	8,987.0	87.1	86.3	88.95	-10,944.7	1.7	484.9	311.6	173.31	2.798	
20,140.0	8,996.0	20,068.0	8,987.0	87.4	86.6	88.95	-10,984.7	1.4	484.9	311.0	173.91	2.788	
20,200.0	8,996.0	20,128.0	8,987.0	87.9	87.0	88.95	-11,044.7	0.9	484.9	310.1	174.81	2.774	
20,235.0	8,996.1	20,163.0	8,987.1	88.1	87.3	88.95	-11,079.7	0.6	484.9	309.5	175.34	2.765	
20,300.0	8,996.1	20,228.0	8,987.1	88.6	87.8	88.95	-11,144.7	0.0	484.9	308.6	176.32	2.750	
20,330.0	8,996.1	20,258.0	8,987.1	88.9	88.0	88.95	-11,174.7	-0.2	484.9	308.1	176.77	2.743	
20,400.0	8,996.1	20,328.0	8,987.1	89.4	88.5	88.95	-11,244.7	-0.8	484.9	307.1	177.82	2.727	
20,425.0	8,996.1	20,353.0	8,987.1	89.6	88.7	88.95	-11,269.7	-1.0	484.9	306.7	178.20	2.721	
20,500.0	8,996.2	20,428.0	8,987.2	90.1	89.3	88.95	-11,344.7	-1.6	484.9	305.5	179.33	2.704	
20,520.0	8,996.2	20,448.0	8,987.2	90.3	89.4	88.95	-11,364.7	-1.8	484.9	305.2	179.63	2.699	
20,600.0	8,996.2	20,528.0	8,987.2	90.9	90.1	88.95	-11,444.7	-2.4	484.9	304.0	180.83	2.681	
20,615.0	8,996.2	20,543.0	8,987.2	91.0	90.2	88.95	-11,459.7	-2.6	484.9	303.8	181.06	2.678	
20,700.0	8,996.3	20,628.0	8,987.3	91.6	90.8	88.95	-11,544.7	-3.3	484.9	302.5	182.34	2.659	
20,710.0	8,996.3	20,638.0	8,987.3	91.7	90.9	88.95	-11,554.7	-3.4	484.9	302.4	182.49	2.657	
20,800.0	8,996.3	20,728.0	8,987.3	92.4	91.6	88.95	-11,644.7	-4.1	484.9	301.0	183.85	2.637	
20,805.0	8,996.3	20,733.0	8,987.3	92.4	91.6	88.95	-11,649.7	-4.1	484.9	301.0	183.92	2.636	
20,900.0	8,996.4	20,828.0	8,987.4	93.1	92.3	88.95	-11,744.7	-4.9	484.9	299.5	185.35	2.616	
20,995.0	8,996.4	20,923.0	8,987.4	93.8	93.0	88.95	-11,839.7	-5.7	484.9	298.1	186.79	2.596	
21,000.0	8,996.4	20,928.0	8,987.4	93.9	93.1	88.95	-11,844.7	-5.7	484.9	298.0	186.86	2.595	
21,090.0	8,996.5	21,018.0	8,987.5	94.6	93.8	88.95	-11,934.7	-6.5	484.9	296.7	188.22	2.576	
21,100.0	8,996.5	21,028.0	8,987.5	94.6	93.8	88.95	-11,944.7	-6.6	484.9	296.5	188.37	2.574	
21,185.0	8,996.5	21,113.0	8,987.5	95.3	94.5	88.95	-12,029.7	-7.3	484.9	295.2	189.65	2.557	
21,200.0	8,996.5	21,128.0	8,987.5	95.4	94.6	88.95	-12,044.7	-7.4	484.9	295.0	189.88	2.554	
21,280.0	8,996.5	21,208.0	8,987.5	96.0	95.2	88.95	-12,124.7	-8.1	484.9	293.8	191.09	2.538	
21,300.0	8,996.6	21,228.0	8,987.6	96.1	95.3	88.95	-12,144.7	-8.2	484.9	293.5	191.39	2.534	
21,375.0	8,996.6	21,303.0	8,987.6	96.7	95.9	88.95	-12,219.7	-8.8	484.9	292.4	192.52	2.519	
21,400.0	8,996.6	21,328.0	8,987.6	96.9	96.1	88.95	-12,244.7	-9.1	484.9	292.0	192.90	2.514	
21,470.0	8,996.6	21,398.0	8,987.6	97.4	96.6	88.95	-12,314.7	-9.6	484.9	290.9	193.95	2.500	
21,500.0	8,996.6	21,428.0	8,987.6	97.6	96.9	88.95	-12,344.7	-9.9	484.9	290.5	194.40	2.494	
21,565.0	8,996.7	21,493.0	8,987.7	98.1	97.4	88.95	-12,409.7	-10.4	484.9	289.5	195.39	2.482	
21,600.0	8,996.7	21,528.0	8,987.7	98.4	97.6	88.95	-12,444.7	-10.7	484.9	289.0	195.91	2.475	
21,660.0	8,996.7	21,588.0	8,987.7	98.8	98.1	88.95	-12,504.7	-11.2	484.9	288.1	196.82	2.464	
21,700.0	8,996.7	21,628.0	8,987.7	99.1	98.4	88.95	-12,544.7	-11.5	484.9	287.5	197.42	2.456	
21,755.0	8,996.8	21,683.0	8,987.8	99.5	98.8	88.95	-12,599.7	-12.0	484.9	286.6	198.25	2.446	
21,800.0	8,996.8	21,728.0	8,987.8	99.9	99.1	88.95	-12,644.7	-12.4	484.9	286.0	198.93	2.437	
21,850.0	8,996.8	21,778.0	8,987.8	100.3	99.5	88.95	-12,694.7	-12.8	484.9	285.2	199.69	2.428	
21,900.0	8,996.8	21,828.0	8,987.8	100.6	99.9	88.95	-12,744.7	-13.2	484.9	284.4	200.44	2.419	
21,945.0	8,996.9	21,873.0	8,987.9	101.0	100.2	88.95	-12,789.6	-13.6	484.9	283.8	201.12	2.411	
22,000.0	8,996.9	21,928.0	8,987.9	101.4	100.6	88.95	-12,844.6	-14.0	484.9	282.9	201.95	2.401	
22,040.0	8,996.9	21,968.0	8,987.9	101.7	101.0	88.95	-12,884.6	-14.3	484.9	282.3	202.56	2.394	
22,100.0	8,996.9	22,028.0	8,987.9	102.1	101.4	88.95	-12,944.6	-14.8	484.9	281.4	203.46	2.383	
22,135.0	8,996.9	22,063.0	8,987.9	102.4	101.7	88.95	-12,979.6	-15.1	484.9	280.9	203.99	2.377	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		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	
22,200.0	8,997.0	22,128.0	8,988.0	102.9	102.2	88.95	-13,044.6	-15.7	484.9	279.9	204.98	2.366
22,230.0	8,997.0	22,158.0	8,988.0	103.1	102.4	88.95	-13,074.6	-15.9	484.9	279.5	205.43	2.360
22,300.0	8,997.0	22,228.0	8,988.0	103.6	102.9	88.95	-13,144.6	-16.5	484.9	278.4	206.49	2.348
22,325.0	8,997.0	22,253.0	8,988.0	103.8	103.1	88.95	-13,169.6	-16.7	484.9	278.0	206.87	2.344
22,400.0	8,997.1	22,328.0	8,988.1	104.4	103.7	88.95	-13,244.6	-17.3	484.9	276.9	208.00	2.331
22,420.0	8,997.1	22,348.0	8,988.1	104.6	103.8	88.95	-13,264.6	-17.5	484.9	276.6	208.30	2.328
22,500.0	8,997.1	22,428.0	8,988.1	105.2	104.4	88.95	-13,344.6	-18.1	484.9	275.4	209.51	2.314
22,515.0	8,997.1	22,443.0	8,988.1	105.3	104.5	88.95	-13,359.6	-18.3	484.9	275.2	209.74	2.312
22,600.0	8,997.2	22,528.0	8,988.2	105.9	105.2	88.95	-13,444.6	-19.0	484.9	273.9	211.02	2.298
22,610.0	8,997.2	22,538.0	8,988.2	106.0	105.3	88.95	-13,454.6	-19.0	484.9	273.7	211.17	2.296
22,700.0	8,997.2	22,628.0	8,988.2	106.7	106.0	88.95	-13,544.6	-19.8	484.9	272.4	212.53	2.281
22,705.0	8,997.2	22,633.0	8,988.2	106.7	106.0	88.95	-13,549.6	-19.8	484.9	272.3	212.61	2.281
22,800.0	8,997.3	22,728.0	8,988.3	107.4	106.7	88.95	-13,644.6	-20.6	484.9	270.8	214.05	2.265
22,895.0	8,997.3	22,823.0	8,988.3	108.1	107.4	88.95	-13,739.6	-21.4	484.9	269.4	215.48	2.250
22,900.0	8,997.3	22,828.0	8,988.3	108.2	107.5	88.95	-13,744.6	-21.4	484.9	269.3	215.56	2.249
22,990.0	8,997.3	22,918.0	8,988.3	108.8	108.2	88.95	-13,834.6	-22.2	484.9	268.0	216.92	2.235
23,000.0	8,997.3	22,928.0	8,988.3	108.9	108.2	88.95	-13,844.6	-22.3	484.9	267.8	217.07	2.234
23,085.0	8,997.4	23,013.0	8,988.4	109.6	108.9	88.95	-13,929.6	-23.0	484.9	266.5	218.36	2.221
23,100.0	8,997.4	23,028.0	8,988.4	109.7	109.0	88.95	-13,944.6	-23.1	484.9	266.3	218.59	2.218
23,180.0	8,997.4	23,108.0	8,988.4	110.3	109.6	88.95	-14,024.6	-23.8	484.9	265.1	219.80	2.206
23,200.0	8,997.4	23,128.0	8,988.4	110.4	109.7	88.95	-14,044.6	-23.9	484.9	264.8	220.10	2.203
23,275.0	8,997.5	23,203.0	8,988.5	111.0	110.3	88.95	-14,119.6	-24.5	484.9	263.7	221.23	2.192
23,300.0	8,997.5	23,228.0	8,988.5	111.2	110.5	88.95	-14,144.6	-24.7	484.9	263.3	221.61	2.188
23,370.0	8,997.5	23,298.0	8,988.5	111.7	111.0	88.95	-14,214.6	-25.3	484.9	262.2	222.67	2.178
23,400.0	8,997.5	23,328.0	8,988.5	111.9	111.3	88.95	-14,244.6	-25.6	484.9	261.8	223.13	2.173
23,465.0	8,997.6	23,393.0	8,988.6	112.4	111.8	88.95	-14,309.6	-26.1	484.9	260.8	224.11	2.164
23,500.0	8,997.6	23,428.0	8,988.6	112.7	112.0	88.95	-14,344.6	-26.4	484.9	260.3	224.64	2.159
23,560.0	8,997.6	23,488.0	8,988.6	113.1	112.5	88.95	-14,404.6	-26.9	484.9	259.4	225.55	2.150
23,600.0	8,997.6	23,528.0	8,988.6	113.4	112.8	88.95	-14,444.6	-27.2	484.9	258.7	226.15	2.144
23,655.0	8,997.6	23,583.0	8,988.7	113.9	113.2	88.95	-14,499.6	-27.7	484.9	257.9	226.99	2.136
23,700.0	8,997.7	23,628.0	8,988.7	114.2	113.5	88.95	-14,544.6	-28.1	484.9	257.2	227.67	2.130
23,750.0	8,997.7	23,678.0	8,988.7	114.6	113.9	88.95	-14,594.6	-28.5	484.9	256.5	228.43	2.123
23,800.0	8,997.7	23,728.0	8,988.7	115.0	114.3	88.95	-14,644.6	-28.9	484.9	255.7	229.18	2.116
23,845.0	8,997.7	23,773.0	8,988.7	115.3	114.6	88.95	-14,689.6	-29.2	484.9	255.0	229.86	2.110
23,900.0	8,997.8	23,828.0	8,988.8	115.7	115.1	88.95	-14,744.6	-29.7	484.9	254.2	230.70	2.102
23,940.0	8,997.8	23,868.0	8,988.8	116.0	115.4	88.95	-14,784.6	-30.0	484.9	253.6	231.30	2.096
24,000.0	8,997.8	23,928.0	8,988.8	116.5	115.8	88.95	-14,844.6	-30.5	484.9	252.7	232.21	2.088
24,035.0	8,997.8	23,963.0	8,988.8	116.7	116.1	88.95	-14,879.6	-30.8	484.9	252.2	232.74	2.083
24,100.0	8,997.9	24,028.0	8,988.9	117.2	116.6	88.95	-14,944.6	-31.4	484.9	251.2	233.73	2.075
24,130.0	8,997.9	24,058.0	8,988.9	117.5	116.8	88.95	-14,974.6	-31.6	484.9	250.7	234.18	2.071
24,200.0	8,997.9	24,128.0	8,988.9	118.0	117.3	88.95	-15,044.6	-32.2	484.9	249.7	235.24	2.061
24,225.0	8,997.9	24,153.0	8,988.9	118.2	117.5	88.95	-15,069.6	-32.4	484.9	249.3	235.62	2.058
24,275.8	8,997.9	24,203.8	8,988.9	118.6	117.9	88.95	-15,120.4	-32.8	484.9	248.5	236.39	2.051
24,300.0	8,998.0	24,228.0	8,989.0	118.7	118.1	88.95	-15,144.6	-33.0	484.9	248.2	236.76	2.048
24,320.0	8,998.0	24,248.0	8,989.0	118.9	118.2	88.95	-15,164.6	-33.2	484.9	247.8	237.06	2.046
24,324.4	8,998.0	24,252.4	8,989.0	118.9	118.3	88.95	-15,169.0	-33.2	484.9	247.8	237.13	2.045
24,405.9	8,998.0	24,320.8	8,989.0	119.5	118.8	88.95	-15,237.4	-33.8	485.1	247.0	238.07	2.038 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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-91.05	-1.1	-60.0	60.0				
95.0	95.0	95.0	95.0	3.0	3.0	-91.05	-1.1	-60.0	60.0	54.0	6.04	9.942	
100.0	100.0	100.0	100.0	3.0	3.0	-91.05	-1.1	-60.0	60.0	54.0	6.04	9.934	
190.0	190.0	190.0	190.0	3.1	3.1	-91.05	-1.1	-60.0	60.0	53.8	6.25	9.598	
200.0	200.0	200.0	200.0	3.1	3.1	-91.05	-1.1	-60.0	60.0	53.7	6.29	9.546	
285.0	285.0	285.0	285.0	3.3	3.3	-91.05	-1.1	-60.0	60.0	53.5	6.48	9.257	
300.0	300.0	300.0	300.0	3.3	3.3	-91.05	-1.1	-60.0	60.0	53.5	6.52	9.201	
380.0	380.0	380.0	380.0	3.4	3.4	-91.05	-1.1	-60.0	60.0	53.3	6.70	8.954	
400.0	400.0	400.0	400.0	3.4	3.4	-91.05	-1.1	-60.0	60.0	53.3	6.75	8.890	
475.0	475.0	475.0	475.0	3.5	3.5	-91.05	-1.1	-60.0	60.0	53.1	6.91	8.680	
500.0	500.0	500.0	500.0	3.5	3.5	-91.05	-1.1	-60.0	60.0	53.0	6.97	8.609	
570.0	570.0	570.0	570.0	3.6	3.6	-91.05	-1.1	-60.0	60.0	52.9	7.12	8.430	
600.0	600.0	600.0	600.0	3.6	3.6	-91.05	-1.1	-60.0	60.0	52.8	7.18	8.353	
665.0	665.0	665.0	665.0	3.7	3.7	-91.05	-1.1	-60.0	60.0	52.7	7.32	8.200	
700.0	700.0	700.0	700.0	3.8	3.8	-91.05	-1.1	-60.0	60.0	52.6	7.39	8.118	
760.0	760.0	760.0	760.0	3.8	3.8	-91.05	-1.1	-60.0	60.0	52.5	7.51	7.989	
800.0	800.0	800.0	800.0	3.9	3.9	-91.05	-1.1	-60.0	60.0	52.4	7.59	7.902	
855.0	855.0	855.0	855.0	4.0	4.0	-91.05	-1.1	-60.0	60.0	52.3	7.70	7.792	
900.0	900.0	900.0	900.0	4.0	4.0	-91.05	-1.1	-60.0	60.0	52.2	7.79	7.703	
950.0	950.0	950.0	950.0	4.1	4.1	-91.05	-1.1	-60.0	60.0	52.1	7.89	7.610	
1,000.0	1,000.0	1,000.0	1,000.0	4.1	4.1	-91.05	-1.1	-60.0	60.0	52.0	7.98	7.518	
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	-91.05	-1.1	-60.0	60.0	51.9	8.07	7.440	
1,100.0	1,100.0	1,100.0	1,100.0	4.2	4.2	-91.05	-1.1	-60.0	60.0	51.8	8.17	7.346	
1,140.0	1,140.0	1,140.0	1,140.0	4.3	4.3	-91.05	-1.1	-60.0	60.0	51.8	8.24	7.281	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-91.05	-1.1	-60.0	60.0	51.7	8.35	7.185	
1,235.0	1,235.0	1,235.0	1,235.0	4.4	4.4	-91.05	-1.1	-60.0	60.0	51.6	8.41	7.131	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-91.05	-1.1	-60.0	60.0	51.5	8.53	7.034	
1,330.0	1,330.0	1,330.0	1,330.0	4.5	4.5	-91.05	-1.1	-60.0	60.0	51.4	8.58	6.991	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-91.05	-1.1	-60.0	60.0	51.3	8.71	6.892	
1,425.0	1,425.0	1,425.0	1,425.0	4.6	4.6	-91.05	-1.1	-60.0	60.0	51.3	8.75	6.858	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-91.05	-1.1	-60.0	60.0	51.1	8.88	6.758 CC, ES	
1,520.0	1,520.0	1,519.7	1,519.7	4.7	4.7	-147.70	-1.1	-60.0	60.1	51.2	8.94	6.726	
1,600.0	1,600.0	1,598.5	1,598.5	4.9	4.9	-147.43	0.1	-61.2	62.7	53.5	9.18	6.833	
1,615.0	1,615.0	1,613.2	1,613.2	4.9	4.9	-147.34	0.5	-61.6	63.6	54.3	9.24	6.877	
1,700.0	1,699.8	1,696.5	1,696.4	5.1	5.1	-146.69	3.6	-64.8	70.8	61.1	9.63	7.345	
1,710.0	1,709.8	1,706.3	1,706.1	5.1	5.1	-146.61	4.1	-65.3	71.9	62.2	9.68	7.423	
1,800.0	1,799.5	1,793.7	1,793.2	5.3	5.4	-145.76	9.4	-70.8	84.2	74.1	10.10	8.331	
1,805.0	1,804.4	1,798.5	1,798.0	5.4	5.4	-145.72	9.7	-71.2	85.0	74.8	10.13	8.392	
1,900.0	1,898.7	1,889.6	1,888.4	5.6	5.6	-144.83	17.3	-79.0	102.8	92.3	10.58	9.720	
1,995.0	1,992.5	1,980.2	1,978.0	5.9	5.8	-144.07	26.7	-88.8	125.3	114.3	10.96	11.434	
2,000.0	1,997.5	1,985.1	1,982.8	5.9	5.8	-144.05	27.2	-89.3	126.6	115.6	10.98	11.529	
2,090.0	2,085.8	2,071.8	2,068.4	6.3	6.0	-143.98	36.7	-99.1	150.7	139.3	11.41	13.202	
2,100.0	2,095.6	2,081.4	2,077.9	6.3	6.1	-144.00	37.7	-100.1	153.5	142.0	11.46	13.390	
2,185.0	2,178.5	2,162.6	2,158.1	6.6	6.3	-144.40	46.5	-109.3	178.5	166.6	11.91	14.995	
2,199.8	2,192.9	2,176.6	2,172.0	6.6	6.3	-144.50	48.1	-110.8	183.1	171.1	11.98	15.278	
2,280.0	2,270.7	2,252.8	2,247.3	6.9	6.5	-145.24	56.4	-119.4	208.0	195.6	12.38	16.800	
2,300.0	2,290.1	2,271.8	2,266.0	7.0	6.6	-145.40	58.4	-121.6	214.2	201.7	12.48	17.163	
2,375.0	2,362.9	2,343.1	2,336.4	7.2	6.8	-145.92	66.2	-129.6	237.5	224.7	12.87	18.461	
2,400.0	2,387.1	2,366.8	2,359.9	7.3	6.9	-146.07	68.8	-132.2	245.3	232.3	13.00	18.876	
2,470.0	2,455.0	2,433.4	2,425.6	7.5	7.1	-146.45	76.0	-139.7	267.1	253.7	13.37	19.977	
2,500.0	2,484.1	2,461.9	2,453.7	7.6	7.2	-146.59	79.1	-142.9	276.4	262.9	13.53	20.429	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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					
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside								Warning
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	(usft)	(usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,565.0	2,547.2	2,523.6	2,514.7	7.9	7.4	-146.87	85.8	-149.9	296.7	282.8	13.89	21.358		
2,600.0	2,581.2	2,556.9	2,547.5	8.0	7.5	-147.01	89.4	-153.6	307.6	293.5	14.08	21.837		
2,660.0	2,639.4	2,613.9	2,603.8	8.2	7.7	-147.22	95.6	-160.0	326.2	311.8	14.42	22.617		
2,700.0	2,678.2	2,651.9	2,641.4	8.4	7.8	-147.35	99.8	-164.3	338.7	324.0	14.65	23.114		
2,755.0	2,731.6	2,704.1	2,693.0	8.6	8.0	-147.51	105.4	-170.2	355.8	340.9	14.97	23.765		
2,800.0	2,775.2	2,746.9	2,735.2	8.7	8.2	-147.63	110.1	-175.0	369.9	354.6	15.24	24.274		
2,850.0	2,823.8	2,794.4	2,782.1	8.9	8.4	-147.76	115.3	-180.3	385.4	369.9	15.53	24.812		
2,900.0	2,872.3	2,841.9	2,829.1	9.1	8.5	-147.87	120.4	-185.7	401.0	385.2	15.83	25.328		
2,945.0	2,915.9	2,884.6	2,871.3	9.3	8.7	-147.97	125.1	-190.5	415.0	398.9	16.11	25.770		
3,000.0	2,969.3	2,936.9	2,922.9	9.5	8.9	-148.07	130.8	-196.4	432.2	415.7	16.44	26.287		
3,040.0	3,008.1	2,974.9	2,960.4	9.7	9.0	-148.15	134.9	-200.6	444.6	428.0	16.69	26.646		
3,100.0	3,066.3	3,031.9	3,016.7	10.0	9.2	-148.25	141.1	-207.0	463.3	446.3	17.06	27.163		
3,135.0	3,100.3	3,065.2	3,049.6	10.1	9.4	-148.31	144.7	-210.8	474.3	457.0	17.28	27.450		
3,200.0	3,163.4	3,126.9	3,110.6	10.4	9.6	-148.41	151.4	-217.7	494.5	476.8	17.68	27.963		
3,230.0	3,192.5	3,155.4	3,138.7	10.5	9.7	-148.45	154.5	-220.9	503.9	486.0	17.87	28.189		
3,300.0	3,260.4	3,221.9	3,204.4	10.8	10.0	-148.54	161.8	-228.4	525.7	507.4	18.32	28.696		
3,325.0	3,284.7	3,245.7	3,227.9	10.9	10.1	-148.57	164.3	-231.1	533.5	515.0	18.48	28.869		
3,400.0	3,357.4	3,316.9	3,298.3	11.2	10.4	-148.66	172.1	-239.1	556.9	537.9	18.96	29.368		
3,420.0	3,376.8	3,335.9	3,317.0	11.3	10.4	-148.68	174.2	-241.2	563.1	544.0	19.09	29.496		
3,500.0	3,454.5	3,411.9	3,392.1	11.7	10.7	-148.77	182.4	-249.8	588.1	568.4	19.61	29.987		
3,515.0	3,469.0	3,426.2	3,406.2	11.7	10.8	-148.79	184.0	-251.4	592.7	573.0	19.71	30.075		
3,600.0	3,551.5	3,507.0	3,485.9	12.1	11.1	-148.87	192.8	-260.5	619.2	599.0	20.26	30.557		
3,610.0	3,561.2	3,516.5	3,495.3	12.2	11.1	-148.88	193.8	-261.6	622.4	602.0	20.33	30.611		
3,700.0	3,648.5	3,602.0	3,579.8	12.5	11.5	-148.95	203.1	-271.2	650.4	629.5	20.92	31.084		
3,705.0	3,653.4	3,606.7	3,584.5	12.6	11.5	-148.96	203.6	-271.7	652.0	631.0	20.96	31.109		
3,800.0	3,745.6	3,697.0	3,673.6	13.0	11.9	-149.03	213.4	-281.9	681.6	660.0	21.59	31.571		
3,895.0	3,837.7	3,787.2	3,762.8	13.4	12.2	-149.10	223.2	-292.0	711.2	689.0	22.23	32.001		
3,900.0	3,842.6	3,792.0	3,767.4	13.4	12.3	-149.11	223.8	-292.5	712.8	690.5	22.26	32.023		
3,990.0	3,929.9	3,877.5	3,851.9	13.9	12.6	-149.17	233.1	-302.2	740.9	718.0	22.87	32.401		
4,000.0	3,939.6	3,887.0	3,861.3	13.9	12.7	-149.17	234.1	-303.2	744.0	721.0	22.93	32.442		
4,019.1	3,958.1	3,905.1	3,879.2	14.0	12.7	-149.19	236.1	-305.3	749.9	726.9	23.05	32.530		
4,085.0	4,022.3	3,968.0	3,941.2	14.3	13.0	-149.41	242.9	-312.3	769.9	746.4	23.50	32.764		
4,100.0	4,036.9	3,982.3	3,955.4	14.3	13.0	-149.45	244.5	-313.9	774.2	750.6	23.60	32.808		
4,180.0	4,115.3	4,059.2	4,031.3	14.7	13.4	-149.60	252.8	-322.6	796.4	772.2	24.15	32.972		
4,200.0	4,134.9	4,078.5	4,050.4	14.8	13.4	-149.62	254.9	-324.8	801.7	777.4	24.29	32.999		
4,275.0	4,208.9	4,151.1	4,122.1	15.2	13.8	-149.65	262.8	-332.9	820.3	795.5	24.81	33.062		
4,300.0	4,233.6	4,175.3	4,146.1	15.3	13.9	-149.65	265.5	-335.7	826.2	801.2	24.99	33.067		
4,370.0	4,303.0	4,247.3	4,217.2	15.6	14.2	-149.57	273.2	-343.7	841.5	816.1	25.48	33.026		
4,400.0	4,332.8	4,280.0	4,249.5	15.7	14.3	-149.52	276.5	-347.1	847.5	821.8	25.70	32.975		
4,465.0	4,397.4	4,351.1	4,319.9	16.0	14.6	-149.39	283.4	-354.2	859.2	833.0	26.17	32.835		
4,500.0	4,432.3	4,389.5	4,358.1	16.1	14.7	-149.32	286.8	-357.7	864.8	838.3	26.42	32.732		
4,560.0	4,492.2	4,455.8	4,423.8	16.3	15.0	-149.17	292.3	-363.4	873.1	846.3	26.83	32.545		
4,600.0	4,532.1	4,500.1	4,467.9	16.5	15.2	-149.05	295.7	-366.9	877.8	850.7	27.10	32.392		
4,655.0	4,587.1	4,561.2	4,528.7	16.7	15.4	-148.88	300.0	-371.4	883.1	855.7	27.43	32.192		
4,700.0	4,632.1	4,611.4	4,578.7	16.8	15.6	-148.73	303.2	-374.7	886.5	858.8	27.70	31.999		
4,718.9	4,651.0	4,632.5	4,599.7	16.8	15.7	-92.00	304.4	-375.9	887.7	859.9	27.78	31.950		
4,750.0	4,682.1	4,667.3	4,634.3	16.8	15.8	-91.87	306.3	-377.9	889.4	861.5	27.90	31.877		
4,800.0	4,732.1	4,723.2	4,690.1	16.8	16.0	-91.68	309.2	-380.8	891.9	863.8	28.09	31.755		
4,845.0	4,777.1	4,773.6	4,740.4	16.9	16.2	-91.54	311.4	-383.1	893.9	865.6	28.26	31.636		
4,900.0	4,832.1	4,835.3	4,802.0	16.9	16.4	-91.39	313.6	-385.5	896.0	867.5	28.46	31.487		
4,940.0	4,872.1	4,880.2	4,846.9	16.9	16.5	-91.30	315.0	-386.9	897.2	868.6	28.60	31.375		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)		
5,000.0	4,932.1	4,947.6	4,914.2	16.9	16.7	-91.19	316.6	-388.6	898.6	869.8	28.79	31.208	
5,035.0	4,967.1	4,986.9	4,953.6	17.0	16.9	-91.15	317.3	-389.3	899.2	870.3	28.91	31.108	
5,100.0	5,032.1	5,060.0	5,026.6	17.0	17.0	-91.10	318.1	-390.0	899.9	870.9	29.07	30.959	
5,130.0	5,062.1	5,093.8	5,060.4	17.0	17.1	-91.09	318.2	-390.2	900.0	870.9	29.14	30.890	
5,200.0	5,132.1	5,165.5	5,132.1	17.0	17.1	-91.09	318.2	-390.2	900.1	870.8	29.23	30.791	
5,225.0	5,157.1	5,190.5	5,157.1	17.1	17.1	-91.09	318.2	-390.2	900.1	870.8	29.26	30.762	
5,300.0	5,232.1	5,265.5	5,232.1	17.1	17.2	-91.09	318.2	-390.2	900.1	870.7	29.35	30.669	
5,320.0	5,252.1	5,285.5	5,252.1	17.1	17.2	-91.09	318.2	-390.2	900.1	870.7	29.37	30.644	
5,400.0	5,332.1	5,365.5	5,332.1	17.1	17.2	-91.09	318.2	-390.2	900.1	870.6	29.47	30.545	
5,415.0	5,347.1	5,380.5	5,347.1	17.2	17.2	-91.09	318.2	-390.2	900.1	870.6	29.48	30.526	
5,500.0	5,432.1	5,465.5	5,432.1	17.2	17.3	-91.09	318.2	-390.2	900.1	870.5	29.59	30.422	
5,510.0	5,442.1	5,475.5	5,442.1	17.2	17.3	-91.09	318.2	-390.2	900.1	870.5	29.60	30.409	
5,600.0	5,532.1	5,565.5	5,532.1	17.2	17.3	-91.09	318.2	-390.2	900.1	870.4	29.71	30.299	
5,605.0	5,537.1	5,570.5	5,537.1	17.3	17.3	-91.09	318.2	-390.2	900.1	870.4	29.71	30.293	
5,700.0	5,632.1	5,665.5	5,632.1	17.3	17.4	-91.09	318.2	-390.2	900.1	870.2	29.83	30.177	
5,795.0	5,727.1	5,760.5	5,727.1	17.4	17.4	-91.09	318.2	-390.2	900.1	870.1	29.94	30.061	
5,800.0	5,732.1	5,765.5	5,732.1	17.4	17.4	-91.09	318.2	-390.2	900.1	870.1	29.95	30.055	
5,890.0	5,822.1	5,855.5	5,822.1	17.4	17.5	-91.09	318.2	-390.2	900.1	870.0	30.06	29.946	
5,900.0	5,832.1	5,865.5	5,832.1	17.4	17.5	-91.09	318.2	-390.2	900.1	870.0	30.07	29.934	
5,985.0	5,917.1	5,950.5	5,917.1	17.5	17.5	-91.09	318.2	-390.2	900.1	869.9	30.17	29.831	
6,000.0	5,932.1	5,965.5	5,932.1	17.5	17.5	-91.09	318.2	-390.2	900.1	869.9	30.19	29.813	
6,080.0	6,012.1	6,045.5	6,012.1	17.5	17.6	-91.09	318.2	-390.2	900.1	869.8	30.29	29.717	
6,100.0	6,032.1	6,065.5	6,032.1	17.5	17.6	-91.09	318.2	-390.2	900.1	869.8	30.31	29.693	
6,175.0	6,107.1	6,140.5	6,107.1	17.6	17.6	-91.09	318.2	-390.2	900.1	869.7	30.40	29.604	
6,200.0	6,132.1	6,165.5	6,132.1	17.6	17.6	-91.09	318.2	-390.2	900.1	869.6	30.43	29.574	
6,270.0	6,202.1	6,235.5	6,202.1	17.6	17.7	-91.09	318.2	-390.2	900.1	869.5	30.52	29.491	
6,300.0	6,232.1	6,265.5	6,232.1	17.6	17.7	-91.09	318.2	-390.2	900.1	869.5	30.56	29.455	
6,365.0	6,297.1	6,330.5	6,297.1	17.7	17.7	-91.09	318.2	-390.2	900.1	869.4	30.64	29.378	
6,400.0	6,332.1	6,365.5	6,332.1	17.7	17.8	-91.09	318.2	-390.2	900.1	869.4	30.68	29.337	
6,460.0	6,392.1	6,425.5	6,392.1	17.7	17.8	-91.09	318.2	-390.2	900.1	869.3	30.75	29.267	
6,500.0	6,432.1	6,465.5	6,432.1	17.7	17.8	-91.09	318.2	-390.2	900.1	869.3	30.80	29.220	
6,555.0	6,487.1	6,520.5	6,487.1	17.8	17.8	-91.09	318.2	-390.2	900.1	869.2	30.87	29.155	
6,600.0	6,532.1	6,565.5	6,532.1	17.8	17.9	-91.09	318.2	-390.2	900.1	869.1	30.93	29.103	
6,650.0	6,582.1	6,615.5	6,582.1	17.8	17.9	-91.09	318.2	-390.2	900.1	869.1	30.99	29.044	
6,700.0	6,632.1	6,665.5	6,632.1	17.8	17.9	-91.09	318.2	-390.2	900.1	869.0	31.05	28.986	
6,745.0	6,677.1	6,710.5	6,677.1	17.9	17.9	-91.09	318.2	-390.2	900.1	869.0	31.11	28.934	
6,800.0	6,732.1	6,765.5	6,732.1	17.9	18.0	-91.09	318.2	-390.2	900.1	868.9	31.18	28.871	
6,840.0	6,772.1	6,805.5	6,772.1	17.9	18.0	-91.09	318.2	-390.2	900.1	868.8	31.23	28.824	
6,900.0	6,832.1	6,865.5	6,832.1	17.9	18.0	-91.09	318.2	-390.2	900.1	868.8	31.30	28.755	
6,935.0	6,867.1	6,900.5	6,867.1	18.0	18.1	-91.09	318.2	-390.2	900.1	868.7	31.34	28.715	
7,000.0	6,932.1	6,965.5	6,932.1	18.0	18.1	-91.09	318.2	-390.2	900.1	868.6	31.43	28.641	
7,030.0	6,962.1	6,995.5	6,962.1	18.0	18.1	-91.09	318.2	-390.2	900.1	868.6	31.46	28.607	
7,100.0	7,032.1	7,065.5	7,032.1	18.1	18.1	-91.09	318.2	-390.2	900.1	868.5	31.55	28.527	
7,125.0	7,057.1	7,090.5	7,057.1	18.1	18.2	-91.09	318.2	-390.2	900.1	868.5	31.58	28.498	
7,200.0	7,132.1	7,165.5	7,132.1	18.1	18.2	-91.09	318.2	-390.2	900.1	868.4	31.68	28.413	
7,220.0	7,152.1	7,185.5	7,152.1	18.1	18.2	-91.09	318.2	-390.2	900.1	868.4	31.70	28.391	
7,300.0	7,232.1	7,265.5	7,232.1	18.2	18.3	-91.09	318.2	-390.2	900.1	868.3	31.80	28.301	
7,315.0	7,247.1	7,280.5	7,247.1	18.2	18.3	-91.09	318.2	-390.2	900.1	868.2	31.82	28.284	
7,400.0	7,332.1	7,365.5	7,332.1	18.2	18.3	-91.09	318.2	-390.2	900.1	868.1	31.93	28.189	
7,410.0	7,342.1	7,375.5	7,342.1	18.2	18.3	-91.09	318.2	-390.2	900.1	868.1	31.94	28.177	
7,500.0	7,432.1	7,465.5	7,432.1	18.3	18.4	-91.09	318.2	-390.2	900.1	868.0	32.06	28.077	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,505.0	7,437.1	7,470.5	7,437.1	18.3	18.4	-91.09	318.2	-390.2	900.1	868.0	32.06	28.071	
7,600.0	7,532.1	7,565.5	7,532.1	18.3	18.4	-91.09	318.2	-390.2	900.1	867.9	32.18	27.966	
7,695.0	7,627.1	7,660.5	7,627.1	18.4	18.5	-91.09	318.2	-390.2	900.1	867.8	32.31	27.861	
7,700.0	7,632.1	7,665.5	7,632.1	18.4	18.5	-91.09	318.2	-390.2	900.1	867.8	32.31	27.856	
7,790.0	7,722.1	7,755.5	7,722.1	18.4	18.5	-91.09	318.2	-390.2	900.1	867.6	32.43	27.757	
7,800.0	7,732.1	7,765.5	7,732.1	18.4	18.5	-91.09	318.2	-390.2	900.1	867.6	32.44	27.746	
7,885.0	7,817.1	7,850.5	7,817.1	18.5	18.6	-91.09	318.2	-390.2	900.1	867.5	32.55	27.653	
7,900.0	7,832.1	7,865.5	7,832.1	18.5	18.6	-91.09	318.2	-390.2	900.1	867.5	32.57	27.637	
7,980.0	7,912.1	7,945.5	7,912.1	18.6	18.6	-91.09	318.2	-390.2	900.1	867.4	32.67	27.550	
8,000.0	7,932.1	7,965.5	7,932.1	18.6	18.7	-91.09	318.2	-390.2	900.1	867.4	32.70	27.528	
8,075.0	8,007.1	8,040.5	8,007.1	18.6	18.7	-91.09	318.2	-390.2	900.1	867.3	32.79	27.447	
8,100.0	8,032.1	8,065.5	8,032.1	18.6	18.7	-91.09	318.2	-390.2	900.1	867.2	32.82	27.420	
8,170.0	8,102.1	8,135.5	8,102.1	18.7	18.8	-91.09	318.2	-390.2	900.1	867.1	32.92	27.345	
8,200.0	8,132.1	8,165.5	8,132.1	18.7	18.8	-91.09	318.2	-390.2	900.1	867.1	32.95	27.313	
8,265.0	8,197.1	8,230.5	8,197.1	18.7	18.8	-91.09	318.2	-390.2	900.1	867.0	33.04	27.243	
8,300.0	8,232.1	8,265.5	8,232.1	18.7	18.8	-91.09	318.2	-390.2	900.1	867.0	33.08	27.206	
8,360.0	8,292.1	8,325.5	8,292.1	18.8	18.9	-91.09	318.2	-390.2	900.1	866.9	33.16	27.142	
8,400.0	8,332.1	8,365.5	8,332.1	18.8	18.9	-91.09	318.2	-390.2	900.1	866.8	33.21	27.100	
8,455.0	8,387.1	8,420.5	8,387.1	18.8	18.9	-91.09	318.2	-390.2	900.1	866.8	33.27	27.057	
8,457.7	8,389.8	8,423.2	8,389.8	18.8	18.9	-91.09	318.2	-390.2	900.1	866.8	33.27	27.056	
8,485.9	8,418.0	8,450.0	8,416.6	18.8	18.9	-91.11	317.9	-390.2	900.1	866.8	33.28	27.045	
8,500.0	8,432.1	8,464.1	8,430.7	18.8	18.9	94.01	317.3	-390.2	900.1	866.8	33.28	27.044	
8,550.0	8,482.0	8,511.9	8,478.3	18.9	19.0	93.89	312.7	-390.2	900.5	867.2	33.29	27.049	
8,600.0	8,531.4	8,559.6	8,525.2	18.9	19.0	93.73	304.1	-390.3	901.3	868.0	33.30	27.069	
8,645.0	8,575.1	8,602.5	8,566.6	18.9	19.0	93.57	293.2	-390.4	902.3	869.0	33.30	27.101	
8,650.0	8,579.9	8,607.2	8,571.1	18.9	19.0	93.55	291.7	-390.4	902.5	869.2	33.30	27.105	
8,700.0	8,627.2	8,654.7	8,615.8	18.9	19.1	93.33	275.6	-390.6	904.1	870.8	33.29	27.155	
8,740.0	8,663.9	8,692.7	8,650.4	18.9	19.1	93.15	260.1	-390.7	905.7	872.4	33.29	27.204	
8,750.0	8,672.9	8,702.2	8,658.9	19.0	19.1	93.10	255.9	-390.7	906.1	872.8	33.29	27.217	
8,800.0	8,716.6	8,750.0	8,700.6	19.0	19.2	92.83	232.4	-390.9	908.5	875.2	33.29	27.291	
8,835.0	8,745.9	8,782.7	8,727.9	19.0	19.2	92.64	214.4	-391.1	910.4	877.1	33.29	27.347	
8,850.0	8,758.1	8,796.9	8,739.4	19.0	19.2	92.55	206.1	-391.1	911.2	877.9	33.29	27.372	
8,900.0	8,797.0	8,844.2	8,776.3	19.1	19.3	92.25	176.5	-391.4	914.3	881.0	33.30	27.460	
8,930.0	8,819.0	8,872.6	8,797.2	19.1	19.3	92.06	157.3	-391.5	916.3	883.0	33.30	27.514	
8,950.0	8,833.0	8,891.5	8,810.5	19.1	19.3	91.93	143.9	-391.6	917.7	884.4	33.31	27.552	
9,000.0	8,865.9	8,938.8	8,842.0	19.1	19.3	91.59	108.7	-391.9	921.4	888.0	33.33	27.645	
9,025.0	8,881.0	8,962.4	8,856.6	19.2	19.4	91.42	90.1	-392.1	923.3	890.0	33.34	27.690	
9,050.0	8,895.3	8,986.1	8,870.5	19.2	19.4	91.24	70.9	-392.2	925.3	891.9	33.36	27.736	
9,100.0	8,921.1	9,033.4	8,895.7	19.2	19.4	90.89	30.8	-392.6	929.5	896.1	33.41	27.823	
9,120.0	8,930.4	9,052.4	8,904.9	19.3	19.5	90.74	14.3	-392.7	931.2	897.8	33.43	27.857	
9,150.0	8,943.1	9,080.9	8,917.7	19.3	19.5	90.53	-11.2	-392.9	933.8	900.4	33.46	27.905	
9,200.0	8,961.1	9,128.4	8,936.0	19.3	19.5	90.16	-55.0	-393.3	938.4	904.8	33.54	27.978	
9,215.0	8,965.7	9,142.6	8,940.9	19.4	19.5	90.05	-68.4	-393.4	939.7	906.2	33.56	27.998	
9,250.0	8,975.0	9,175.9	8,950.8	19.4	19.6	89.79	-100.2	-393.7	943.0	909.4	33.63	28.042	
9,300.0	8,984.6	9,223.7	8,961.7	19.5	19.6	89.43	-146.6	-394.0	947.8	914.0	33.74	28.094	
9,310.0	8,986.0	9,233.2	8,963.4	19.5	19.6	89.36	-156.0	-394.1	948.7	915.0	33.76	28.102	
9,350.0	8,989.9	9,271.5	8,968.8	19.5	19.7	89.07	-194.0	-394.4	952.6	918.7	33.86	28.134	
9,385.7	8,991.0	9,305.8	8,971.4	19.6	19.7	88.82	-228.1	-394.7	956.0	922.1	33.96	28.156	
9,400.0	8,991.0	9,319.6	8,971.9	19.6	19.7	88.85	-241.9	-394.8	957.4	923.4	34.00	28.163	
9,405.0	8,991.0	9,324.4	8,971.9	19.6	19.7	88.86	-246.7	-394.9	957.9	923.9	34.01	28.162	
9,500.0	8,991.1	9,418.9	8,972.1	19.8	19.8	88.87	-341.2	-395.6	965.0	930.6	34.37	28.078	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		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		
9,595.0	8,991.1	9,513.8	8,972.1	19.9	19.9	88.88	-436.1	-396.4	968.9	934.1	34.79	27.854		
9,600.0	8,991.1	9,518.8	8,972.1	19.9	19.9	88.88	-441.1	-396.5	969.0	934.2	34.81	27.839		
9,666.8	8,991.1	9,585.6	8,972.2	20.1	20.0	88.88	-507.9	-397.0	969.8	934.7	35.12	27.617		
9,690.0	8,991.1	9,608.8	8,972.2	20.1	20.0	88.88	-531.1	-397.2	969.8	934.6	35.23	27.531		
9,700.0	8,991.1	9,618.8	8,972.2	20.1	20.0	88.88	-541.1	-397.3	969.8	934.5	35.28	27.492		
9,785.0	8,991.2	9,703.8	8,972.2	20.3	20.2	88.88	-626.1	-398.0	969.8	934.1	35.73	27.147		
9,800.0	8,991.2	9,718.8	8,972.2	20.3	20.2	88.88	-641.1	-398.1	969.8	934.0	35.81	27.083		
9,880.0	8,991.2	9,798.8	8,972.3	20.5	20.3	88.88	-721.1	-398.8	969.8	933.5	36.28	26.735		
9,900.0	8,991.2	9,818.8	8,972.3	20.6	20.4	88.88	-741.1	-399.0	969.8	933.4	36.40	26.645		
9,975.0	8,991.3	9,893.8	8,972.3	20.7	20.5	88.88	-816.1	-399.6	969.8	932.9	36.88	26.300		
10,000.0	8,991.3	9,918.8	8,972.4	20.8	20.6	88.88	-841.1	-399.8	969.8	932.8	37.04	26.183		
10,070.0	8,991.3	9,988.8	8,972.4	21.0	20.7	88.88	-911.1	-400.4	969.8	932.3	37.52	25.847		
10,100.0	8,991.3	10,018.8	8,972.4	21.1	20.8	88.88	-941.1	-400.6	969.8	932.1	37.73	25.702		
10,165.0	8,991.4	10,083.8	8,972.5	21.3	20.9	88.88	-1,006.1	-401.1	969.8	931.6	38.21	25.379		
10,200.0	8,991.4	10,118.8	8,972.5	21.4	21.0	88.88	-1,041.1	-401.4	969.8	931.3	38.48	25.206		
10,260.0	8,991.4	10,178.8	8,972.5	21.5	21.1	88.88	-1,101.0	-401.9	969.8	930.9	38.95	24.902		
10,300.0	8,991.4	10,218.8	8,972.5	21.7	21.2	88.88	-1,141.0	-402.3	969.8	930.6	39.26	24.701		
10,355.0	8,991.5	10,273.8	8,972.6	21.8	21.4	88.88	-1,196.0	-402.7	969.8	930.1	39.72	24.418		
10,400.0	8,991.5	10,318.8	8,972.6	22.0	21.5	88.88	-1,241.0	-403.1	969.8	929.7	40.09	24.189		
10,450.0	8,991.5	10,368.8	8,972.6	22.2	21.7	88.88	-1,291.0	-403.5	969.8	929.3	40.53	23.931		
10,500.0	8,991.5	10,418.8	8,972.7	22.3	21.8	88.89	-1,341.0	-403.9	969.8	928.9	40.96	23.676		
10,545.0	8,991.5	10,463.8	8,972.7	22.5	22.0	88.89	-1,386.0	-404.3	969.8	928.5	41.37	23.443		
10,600.0	8,991.6	10,518.8	8,972.7	22.7	22.2	88.89	-1,441.0	-404.7	969.8	928.0	41.87	23.162		
10,640.0	8,991.6	10,558.8	8,972.7	22.9	22.3	88.89	-1,481.0	-405.1	969.8	927.6	42.25	22.956		
10,700.0	8,991.6	10,618.8	8,972.8	23.1	22.5	88.89	-1,541.0	-405.6	969.8	927.0	42.81	22.652		
10,735.0	8,991.6	10,653.8	8,972.8	23.3	22.6	88.89	-1,576.0	-405.8	969.8	926.7	43.16	22.473		
10,800.0	8,991.7	10,718.8	8,972.8	23.5	22.9	88.89	-1,641.0	-406.4	969.8	926.0	43.79	22.147		
10,830.0	8,991.7	10,748.8	8,972.9	23.7	23.0	88.89	-1,671.0	-406.6	969.8	925.7	44.09	21.995		
10,900.0	8,991.7	10,818.8	8,972.9	24.0	23.3	88.89	-1,741.0	-407.2	969.8	925.0	44.80	21.649		
10,925.0	8,991.7	10,843.8	8,972.9	24.1	23.4	88.89	-1,766.0	-407.4	969.8	924.8	45.06	21.525		
11,000.0	8,991.8	10,918.8	8,973.0	24.4	23.7	88.89	-1,841.0	-408.0	969.8	924.0	45.83	21.160		
11,020.0	8,991.8	10,938.8	8,973.0	24.5	23.8	88.89	-1,861.0	-408.2	969.8	923.8	46.05	21.062		
11,100.0	8,991.8	11,018.8	8,973.0	24.9	24.2	88.89	-1,941.0	-408.9	969.8	922.9	46.90	20.680		
11,115.0	8,991.8	11,033.8	8,973.0	24.9	24.2	88.89	-1,956.0	-409.0	969.8	922.8	47.06	20.608		
11,200.0	8,991.8	11,118.8	8,973.1	25.4	24.6	88.89	-2,041.0	-409.7	969.8	921.8	47.98	20.211		
11,210.0	8,991.9	11,128.8	8,973.1	25.4	24.7	88.89	-2,051.0	-409.8	969.8	921.7	48.10	20.164		
11,300.0	8,991.9	11,218.8	8,973.1	25.8	25.1	88.89	-2,141.0	-410.5	969.8	920.7	49.10	19.753		
11,305.0	8,991.9	11,223.8	8,973.1	25.9	25.1	88.89	-2,146.0	-410.6	969.8	920.7	49.15	19.731		
11,400.0	8,991.9	11,318.8	8,973.2	26.4	25.6	88.89	-2,241.0	-411.3	969.8	919.6	50.23	19.308		
11,495.0	8,992.0	11,413.8	8,973.3	26.9	26.1	88.89	-2,336.0	-412.1	969.8	918.5	51.33	18.896		
11,500.0	8,992.0	11,418.8	8,973.3	26.9	26.1	88.89	-2,341.0	-412.2	969.8	918.4	51.38	18.874		
11,590.0	8,992.0	11,508.8	8,973.3	27.4	26.6	88.89	-2,431.0	-412.9	969.8	917.4	52.44	18.495		
11,600.0	8,992.0	11,518.8	8,973.3	27.4	26.7	88.89	-2,441.0	-413.0	969.8	917.3	52.56	18.453		
11,685.0	8,992.1	11,603.8	8,973.4	27.9	27.1	88.89	-2,526.0	-413.7	969.8	916.3	53.57	18.105		
11,700.0	8,992.1	11,618.8	8,973.4	28.0	27.2	88.89	-2,541.0	-413.8	969.8	916.1	53.75	18.044		
11,780.0	8,992.1	11,698.8	8,973.4	28.4	27.7	88.90	-2,621.0	-414.5	969.8	915.1	54.71	17.726		
11,800.0	8,992.1	11,718.8	8,973.4	28.5	27.8	88.90	-2,641.0	-414.6	969.8	914.9	54.95	17.648		
11,875.0	8,992.2	11,793.8	8,973.5	29.0	28.2	88.90	-2,716.0	-415.3	969.8	914.0	55.87	17.358		
11,900.0	8,992.2	11,818.8	8,973.5	29.1	28.3	88.90	-2,741.0	-415.5	969.8	913.7	56.18	17.263		
11,970.0	8,992.2	11,888.8	8,973.5	29.5	28.7	88.90	-2,811.0	-416.1	969.8	912.8	57.04	17.002		
12,000.0	8,992.2	11,918.8	8,973.6	29.7	28.9	88.90	-2,841.0	-416.3	969.8	912.4	57.42	16.891		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS														Offset Well Error: 3.0 usft	
Reference Offset				Semi Major Axis		Offset Wellbore Centre				Rule Assigned: Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
12,065.0	8,992.2	11,983.8	8,973.6	30.1	29.3	88.90	-2,906.0	-416.8	969.8	911.6	58.23	16.656			
12,100.0	8,992.3	12,018.8	8,973.6	30.3	29.5	88.90	-2,941.0	-417.1	969.8	911.2	58.67	16.531			
12,160.0	8,992.3	12,078.8	8,973.7	30.6	29.9	88.90	-3,001.0	-417.6	969.8	910.4	59.43	16.320			
12,200.0	8,992.3	12,118.8	8,973.7	30.9	30.1	88.90	-3,041.0	-418.0	969.8	909.9	59.93	16.182			
12,255.0	8,992.3	12,173.8	8,973.7	31.2	30.5	88.90	-3,096.0	-418.4	969.8	909.2	60.63	15.995			
12,300.0	8,992.4	12,218.8	8,973.7	31.5	30.7	88.90	-3,141.0	-418.8	969.8	908.6	61.21	15.845			
12,350.0	8,992.4	12,268.8	8,973.8	31.8	31.0	88.90	-3,191.0	-419.2	969.8	908.0	61.85	15.680			
12,400.0	8,992.4	12,318.8	8,973.8	32.1	31.4	88.90	-3,241.0	-419.6	969.8	907.3	62.50	15.518			
12,445.0	8,992.4	12,363.8	8,973.8	32.4	31.6	88.90	-3,286.0	-420.0	969.8	906.8	63.08	15.375			
12,500.0	8,992.5	12,418.8	8,973.9	32.7	32.0	88.90	-3,341.0	-420.4	969.8	906.0	63.79	15.203			
12,540.0	8,992.5	12,458.8	8,973.9	33.0	32.2	88.90	-3,381.0	-420.8	969.8	905.5	64.32	15.079			
12,600.0	8,992.5	12,518.8	8,973.9	33.3	32.6	88.90	-3,441.0	-421.3	969.8	904.7	65.10	14.897			
12,635.0	8,992.5	12,553.8	8,973.9	33.6	32.8	88.90	-3,476.0	-421.5	969.8	904.3	65.56	14.792			
12,700.0	8,992.5	12,618.8	8,974.0	34.0	33.3	88.90	-3,541.0	-422.1	969.8	903.4	66.42	14.602			
12,730.0	8,992.6	12,648.8	8,974.0	34.2	33.5	88.90	-3,571.0	-422.3	969.8	903.0	66.82	14.515			
12,800.0	8,992.6	12,718.8	8,974.0	34.6	33.9	88.90	-3,641.0	-422.9	969.8	902.1	67.75	14.316			
12,825.0	8,992.6	12,743.8	8,974.1	34.8	34.1	88.90	-3,666.0	-423.1	969.8	901.8	68.08	14.246			
12,900.0	8,992.6	12,818.8	8,974.1	35.3	34.6	88.90	-3,741.0	-423.7	969.8	900.8	69.08	14.039			
12,920.0	8,992.6	12,838.8	8,974.1	35.4	34.7	88.90	-3,761.0	-423.9	969.8	900.5	69.35	13.985			
13,000.0	8,992.7	12,918.8	8,974.2	35.9	35.2	88.91	-3,841.0	-424.6	969.8	899.4	70.42	13.772			
13,015.0	8,992.7	12,933.8	8,974.2	36.0	35.3	88.91	-3,856.0	-424.7	969.8	899.2	70.63	13.732			
13,100.0	8,992.7	13,018.8	8,974.2	36.6	35.9	88.91	-3,941.0	-425.4	969.8	898.1	71.77	13.513			
13,110.0	8,992.7	13,028.8	8,974.2	36.6	35.9	88.91	-3,951.0	-425.5	969.8	897.9	71.91	13.487			
13,200.0	8,992.8	13,118.8	8,974.3	37.2	36.5	88.91	-4,040.9	-426.2	969.8	896.7	73.13	13.262			
13,205.0	8,992.8	13,123.8	8,974.3	37.3	36.6	88.91	-4,045.9	-426.3	969.8	896.6	73.20	13.249			
13,300.0	8,992.8	13,218.8	8,974.3	37.9	37.2	88.91	-4,140.9	-427.0	969.8	895.3	74.49	13.019			
13,395.0	8,992.9	13,313.8	8,974.4	38.5	37.9	88.91	-4,235.9	-427.8	969.8	894.0	75.80	12.796			
13,400.0	8,992.9	13,318.8	8,974.4	38.6	37.9	88.91	-4,240.9	-427.9	969.8	894.0	75.86	12.784			
13,490.0	8,992.9	13,408.8	8,974.5	39.2	38.5	88.91	-4,330.9	-428.6	969.8	892.7	77.10	12.579			
13,500.0	8,992.9	13,418.8	8,974.5	39.2	38.6	88.91	-4,340.9	-428.7	969.8	892.6	77.24	12.556			
13,585.0	8,993.0	13,503.8	8,974.5	39.8	39.2	88.91	-4,425.9	-429.4	969.8	891.4	78.41	12.368			
13,600.0	8,993.0	13,518.8	8,974.5	39.9	39.3	88.91	-4,440.9	-429.5	969.8	891.2	78.62	12.336			
13,680.0	8,993.0	13,598.8	8,974.6	40.5	39.8	88.91	-4,520.9	-430.2	969.8	890.1	79.73	12.164			
13,700.0	8,993.0	13,618.8	8,974.6	40.6	39.9	88.91	-4,540.9	-430.3	969.8	889.8	80.01	12.122			
13,775.0	8,993.0	13,693.8	8,974.6	41.1	40.5	88.91	-4,615.9	-431.0	969.8	888.8	81.05	11.966			
13,800.0	8,993.1	13,718.8	8,974.6	41.3	40.6	88.91	-4,640.9	-431.2	969.8	888.4	81.40	11.915			
13,870.0	8,993.1	13,788.8	8,974.7	41.8	41.1	88.91	-4,710.9	-431.7	969.8	887.5	82.38	11.773			
13,900.0	8,993.1	13,818.8	8,974.7	42.0	41.3	88.91	-4,740.9	-432.0	969.8	887.0	82.80	11.714			
13,965.0	8,993.1	13,883.8	8,974.7	42.4	41.8	88.91	-4,805.9	-432.5	969.8	886.1	83.71	11.586			
14,000.0	8,993.2	13,918.8	8,974.8	42.6	42.0	88.91	-4,840.9	-432.8	969.8	885.6	84.20	11.519			
14,060.0	8,993.2	13,978.8	8,974.8	43.1	42.4	88.91	-4,900.9	-433.3	969.8	884.8	85.04	11.404			
14,100.0	8,993.2	14,018.8	8,974.8	43.3	42.7	88.91	-4,940.9	-433.6	969.8	884.2	85.60	11.329			
14,155.0	8,993.2	14,073.8	8,974.9	43.7	43.1	88.91	-4,995.9	-434.1	969.8	883.5	86.38	11.228			
14,200.0	8,993.2	14,118.8	8,974.9	44.0	43.4	88.91	-5,040.9	-434.5	969.8	882.8	87.01	11.146			
14,250.0	8,993.3	14,168.8	8,974.9	44.4	43.8	88.92	-5,090.9	-434.9	969.8	882.1	87.72	11.056			
14,300.0	8,993.3	14,218.8	8,974.9	44.7	44.1	88.92	-5,140.9	-435.3	969.8	881.4	88.43	10.968			
14,345.0	8,993.3	14,263.8	8,975.0	45.0	44.4	88.92	-5,185.9	-435.7	969.8	880.8	89.06	10.889			
14,400.0	8,993.3	14,318.8	8,975.0	45.4	44.8	88.92	-5,240.9	-436.1	969.8	880.0	89.84	10.795			
14,440.0	8,993.4	14,358.8	8,975.0	45.7	45.1	88.92	-5,280.9	-436.5	969.8	879.4	90.41	10.727			
14,500.0	8,993.4	14,418.8	8,975.1	46.1	45.5	88.92	-5,340.9	-437.0	969.8	878.6	91.27	10.627			
14,535.0	8,993.4	14,453.8	8,975.1	46.4	45.8	88.92	-5,375.9	-437.2	969.8	878.1	91.76	10.569			

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #703H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8432-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Warning
14,600.0	8,993.4	14,518.8	8,975.1	46.8	46.2	88.92	88.92	-5,440.9	-437.8	969.8	877.2	92.69	10.463
14,630.0	8,993.4	14,548.8	8,975.1	47.0	46.5	88.92	88.92	-5,470.9	-438.0	969.8	876.7	93.12	10.415
14,700.0	8,993.5	14,618.8	8,975.2	47.5	47.0	88.92	88.92	-5,540.9	-438.6	969.8	875.7	94.12	10.305
14,725.0	8,993.5	14,643.8	8,975.2	47.7	47.1	88.92	88.92	-5,565.9	-438.8	969.8	875.4	94.47	10.266
14,800.0	8,993.5	14,718.8	8,975.2	48.2	47.7	88.92	88.92	-5,640.9	-439.4	969.8	874.3	95.55	10.150
14,820.0	8,993.5	14,738.8	8,975.3	48.4	47.8	88.92	88.92	-5,660.9	-439.6	969.8	874.0	95.83	10.120
14,900.0	8,993.6	14,818.8	8,975.3	48.9	48.4	88.92	88.92	-5,740.9	-440.3	969.8	872.9	96.98	10.000
14,915.0	8,993.6	14,833.8	8,975.3	49.1	48.5	88.92	88.92	-5,755.9	-440.4	969.8	872.6	97.20	9.978
15,000.0	8,993.6	14,918.8	8,975.4	49.7	49.1	88.92	88.92	-5,840.9	-441.1	969.8	871.4	98.42	9.854
15,010.0	8,993.6	14,928.8	8,975.4	49.7	49.2	88.92	88.92	-5,850.9	-441.2	969.8	871.3	98.56	9.840
15,100.0	8,993.7	15,018.8	8,975.4	50.4	49.8	88.92	88.92	-5,940.9	-441.9	969.8	870.0	99.86	9.712
15,105.0	8,993.7	15,023.8	8,975.4	50.4	49.9	88.92	88.92	-5,945.9	-442.0	969.8	869.9	99.93	9.705
15,200.0	8,993.7	15,118.8	8,975.5	51.1	50.5	88.92	88.92	-6,040.9	-442.7	969.8	868.5	101.30	9.574
15,295.0	8,993.8	15,213.8	8,975.5	51.8	51.2	88.92	88.92	-6,135.9	-443.5	969.8	867.2	102.67	9.446
15,300.0	8,993.8	15,218.8	8,975.5	51.8	51.3	88.92	88.92	-6,140.9	-443.6	969.8	867.1	102.74	9.439
15,390.0	8,993.8	15,308.8	8,975.6	52.4	51.9	88.92	88.92	-6,230.9	-444.3	969.8	865.8	104.05	9.321
15,400.0	8,993.8	15,318.8	8,975.6	52.5	52.0	88.92	88.92	-6,240.9	-444.4	969.8	865.7	104.19	9.308
15,485.0	8,993.8	15,403.8	8,975.7	53.1	52.6	88.93	88.93	-6,325.9	-445.1	969.8	864.4	105.42	9.200
15,500.0	8,993.8	15,418.8	8,975.7	53.2	52.7	88.93	88.93	-6,340.9	-445.2	969.8	864.2	105.64	9.181
15,580.0	8,993.9	15,498.8	8,975.7	53.8	53.3	88.93	88.93	-6,420.9	-445.9	969.8	863.0	106.80	9.081
15,600.0	8,993.9	15,518.8	8,975.7	54.0	53.4	88.93	88.93	-6,440.9	-446.0	969.8	862.8	107.09	9.056
15,675.0	8,993.9	15,593.8	8,975.8	54.5	54.0	88.93	88.93	-6,515.9	-446.7	969.8	861.7	108.18	8.965
15,700.0	8,993.9	15,618.8	8,975.8	54.7	54.2	88.93	88.93	-6,540.9	-446.9	969.8	861.3	108.54	8.935
15,770.0	8,994.0	15,688.8	8,975.8	55.2	54.7	88.93	88.93	-6,610.9	-447.4	969.9	860.3	109.56	8.852
15,800.0	8,994.0	15,718.8	8,975.8	55.4	54.9	88.93	88.93	-6,640.9	-447.7	969.9	859.9	110.00	8.817
15,865.0	8,994.0	15,783.8	8,975.9	55.9	55.4	88.93	88.93	-6,705.9	-448.2	969.9	858.9	110.95	8.742
15,900.0	8,994.0	15,818.8	8,975.9	56.1	55.6	88.93	88.93	-6,740.9	-448.5	969.9	858.4	111.46	8.702
15,960.0	8,994.1	15,878.8	8,975.9	56.6	56.0	88.93	88.93	-6,800.9	-449.0	969.9	857.5	112.33	8.634
16,000.0	8,994.1	15,918.8	8,976.0	56.8	56.3	88.93	88.93	-6,840.9	-449.3	969.9	856.9	112.92	8.589
16,055.0	8,994.1	15,973.8	8,976.0	57.2	56.7	88.93	88.93	-6,895.9	-449.8	969.9	856.1	113.72	8.528
16,100.0	8,994.1	16,018.8	8,976.0	57.6	57.1	88.93	88.93	-6,940.8	-450.2	969.9	855.5	114.38	8.479
16,150.0	8,994.2	16,068.8	8,976.1	57.9	57.4	88.93	88.93	-6,990.8	-450.6	969.9	854.7	115.11	8.426
16,200.0	8,994.2	16,118.8	8,976.1	58.3	57.8	88.93	88.93	-7,040.8	-451.0	969.9	854.0	115.84	8.372
16,245.0	8,994.2	16,163.8	8,976.1	58.6	58.1	88.93	88.93	-7,085.8	-451.4	969.9	853.4	116.50	8.325
16,300.0	8,994.2	16,218.8	8,976.1	59.0	58.5	88.93	88.93	-7,140.8	-451.8	969.9	852.5	117.30	8.268
16,340.0	8,994.2	16,258.8	8,976.2	59.3	58.8	88.93	88.93	-7,180.8	-452.2	969.9	852.0	117.89	8.227
16,400.0	8,994.3	16,318.8	8,976.2	59.7	59.3	88.93	88.93	-7,240.8	-452.7	969.9	851.1	118.77	8.166
16,435.0	8,994.3	16,353.8	8,976.2	60.0	59.5	88.93	88.93	-7,275.8	-452.9	969.9	850.6	119.28	8.131
16,500.0	8,994.3	16,418.8	8,976.3	60.5	60.0	88.93	88.93	-7,340.8	-453.5	969.9	849.6	120.24	8.066
16,530.0	8,994.3	16,448.8	8,976.3	60.7	60.2	88.93	88.93	-7,370.8	-453.7	969.9	849.2	120.68	8.037
16,600.0	8,994.4	16,518.8	8,976.3	61.2	60.7	88.93	88.93	-7,440.8	-454.3	969.9	848.1	121.71	7.969
16,625.0	8,994.4	16,543.8	8,976.3	61.4	60.9	88.93	88.93	-7,465.8	-454.5	969.9	847.8	122.08	7.945
16,700.0	8,994.4	16,618.8	8,976.4	61.9	61.5	88.93	88.93	-7,540.8	-455.1	969.9	846.7	123.18	7.874
16,720.0	8,994.4	16,638.8	8,976.4	62.1	61.6	88.94	88.94	-7,560.8	-455.3	969.9	846.4	123.47	7.855
16,800.0	8,994.5	16,718.8	8,976.4	62.7	62.2	88.94	88.94	-7,640.8	-456.0	969.9	845.2	124.65	7.781
16,815.0	8,994.5	16,733.8	8,976.5	62.8	62.3	88.94	88.94	-7,655.8	-456.1	969.9	845.0	124.87	7.767
16,900.0	8,994.5	16,818.8	8,976.5	63.4	62.9	88.94	88.94	-7,740.8	-456.8	969.9	843.7	126.12	7.690
16,910.0	8,994.5	16,828.8	8,976.5	63.5	63.0	88.94	88.94	-7,750.8	-456.9	969.9	843.6	126.27	7.681
17,000.0	8,994.5	16,918.8	8,976.6	64.1	63.7	88.94	88.94	-7,840.8	-457.6	969.9	842.3	127.60	7.601
17,005.0	8,994.6	16,923.8	8,976.6	64.2	63.7	88.94	88.94	-7,845.8	-457.6	969.9	842.2	127.67	7.597
17,100.0	8,994.6	17,018.8	8,976.6	64.9	64.4	88.94	88.94	-7,940.8	-458.4	969.9	840.8	129.07	7.514

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
17,195.0	8,994.6	17,113.8	8,976.7	65.6	65.1	88.94	-8,035.8	-459.2	969.9	839.4	130.48	7.433		
17,200.0	8,994.6	17,118.8	8,976.7	65.6	65.1	88.94	-8,040.8	-459.3	969.9	839.3	130.55	7.429		
17,290.0	8,994.7	17,208.8	8,976.7	66.3	65.8	88.94	-8,130.8	-460.0	969.9	838.0	131.88	7.354		
17,300.0	8,994.7	17,218.8	8,976.7	66.3	65.9	88.94	-8,140.8	-460.1	969.9	837.8	132.03	7.346		
17,385.0	8,994.7	17,303.8	8,976.8	67.0	66.5	88.94	-8,225.8	-460.8	969.9	836.6	133.29	7.277		
17,400.0	8,994.7	17,318.8	8,976.8	67.1	66.6	88.94	-8,240.8	-460.9	969.9	836.4	133.51	7.264		
17,480.0	8,994.8	17,398.8	8,976.9	67.7	67.2	88.94	-8,320.8	-461.6	969.9	835.2	134.69	7.201		
17,500.0	8,994.8	17,418.8	8,976.9	67.8	67.4	88.94	-8,340.8	-461.7	969.9	834.9	134.99	7.185		
17,575.0	8,994.8	17,493.8	8,976.9	68.4	67.9	88.94	-8,415.8	-462.4	969.9	833.8	136.10	7.126		
17,600.0	8,994.8	17,518.8	8,976.9	68.5	68.1	88.94	-8,440.8	-462.6	969.9	833.4	136.47	7.107		
17,670.0	8,994.9	17,588.8	8,977.0	69.1	68.6	88.94	-8,510.8	-463.1	969.9	832.4	137.51	7.053		
17,700.0	8,994.9	17,618.8	8,977.0	69.3	68.8	88.94	-8,540.8	-463.4	969.9	831.9	137.95	7.030		
17,765.0	8,994.9	17,683.8	8,977.0	69.8	69.3	88.94	-8,605.8	-463.9	969.9	830.9	138.92	6.982		
17,800.0	8,994.9	17,718.8	8,977.0	70.0	69.6	88.94	-8,640.8	-464.2	969.9	830.4	139.44	6.956		
17,860.0	8,994.9	17,778.8	8,977.1	70.5	70.0	88.94	-8,700.8	-464.7	969.9	829.5	140.33	6.911		
17,900.0	8,995.0	17,818.8	8,977.1	70.8	70.3	88.94	-8,740.8	-465.0	969.9	828.9	140.92	6.882		
17,955.0	8,995.0	17,873.8	8,977.1	71.2	70.7	88.95	-8,795.8	-465.5	969.9	828.1	141.74	6.843		
18,000.0	8,995.0	17,918.8	8,977.2	71.5	71.1	88.95	-8,840.8	-465.9	969.9	827.5	142.41	6.811		
18,050.0	8,995.0	17,968.8	8,977.2	71.9	71.4	88.95	-8,890.8	-466.3	969.9	826.7	143.15	6.775		
18,100.0	8,995.1	18,018.8	8,977.2	72.2	71.8	88.95	-8,940.8	-466.7	969.9	826.0	143.89	6.740		
18,145.0	8,995.1	18,063.8	8,977.3	72.6	72.2	88.95	-8,985.8	-467.1	969.9	825.3	144.56	6.709		
18,200.0	8,995.1	18,118.8	8,977.3	73.0	72.6	88.95	-9,040.8	-467.5	969.9	824.5	145.38	6.671		
18,240.0	8,995.1	18,158.8	8,977.3	73.3	72.9	88.95	-9,080.8	-467.9	969.9	823.9	145.97	6.644		
18,300.0	8,995.2	18,218.8	8,977.3	73.7	73.3	88.95	-9,140.8	-468.3	969.9	823.0	146.87	6.604		
18,335.0	8,995.2	18,253.8	8,977.4	74.0	73.6	88.95	-9,175.8	-468.6	969.9	822.5	147.39	6.580		
18,400.0	8,995.2	18,318.8	8,977.4	74.5	74.1	88.95	-9,240.8	-469.2	969.9	821.5	148.36	6.537		
18,430.0	8,995.2	18,348.8	8,977.4	74.7	74.3	88.95	-9,270.8	-469.4	969.9	821.1	148.80	6.518		
18,500.0	8,995.2	18,418.8	8,977.5	75.2	74.8	88.95	-9,340.8	-470.0	969.9	820.0	149.84	6.472		
18,525.0	8,995.3	18,443.8	8,977.5	75.4	75.0	88.95	-9,365.8	-470.2	969.9	819.6	150.22	6.456		
18,600.0	8,995.3	18,518.8	8,977.5	76.0	75.5	88.95	-9,440.8	-470.8	969.9	818.5	151.34	6.409		
18,620.0	8,995.3	18,538.8	8,977.5	76.1	75.7	88.95	-9,460.8	-471.0	969.9	818.2	151.63	6.396		
18,700.0	8,995.3	18,618.8	8,977.6	76.7	76.3	88.95	-9,540.8	-471.7	969.9	817.0	152.83	6.346		
18,715.0	8,995.3	18,633.8	8,977.6	76.8	76.4	88.95	-9,555.8	-471.8	969.9	816.8	153.05	6.337		
18,800.0	8,995.4	18,718.8	8,977.6	77.4	77.0	88.95	-9,640.8	-472.5	969.9	815.5	154.32	6.285		
18,810.0	8,995.4	18,728.8	8,977.7	77.5	77.1	88.95	-9,650.8	-472.6	969.9	815.4	154.47	6.279		
18,900.0	8,995.4	18,818.8	8,977.7	78.2	77.8	88.95	-9,740.8	-473.3	969.9	814.1	155.81	6.225		
18,905.0	8,995.4	18,823.8	8,977.7	78.2	77.8	88.95	-9,745.8	-473.3	969.9	814.0	155.89	6.222		
19,000.0	8,995.5	18,918.8	8,977.8	78.9	78.5	88.95	-9,840.7	-474.1	969.9	812.6	157.30	6.166		
19,095.0	8,995.5	19,013.8	8,977.8	79.6	79.2	88.95	-9,935.7	-474.9	969.9	811.1	158.72	6.110		
19,100.0	8,995.5	19,018.8	8,977.8	79.7	79.3	88.95	-9,940.7	-475.0	969.9	811.1	158.80	6.108		
19,190.0	8,995.6	19,108.8	8,977.9	80.3	79.9	88.95	-10,030.7	-475.7	969.9	809.7	160.14	6.056		
19,200.0	8,995.6	19,118.8	8,977.9	80.4	80.0	88.95	-10,040.7	-475.8	969.9	809.6	160.29	6.051		
19,285.0	8,995.6	19,203.8	8,977.9	81.0	80.7	88.96	-10,125.7	-476.5	969.9	808.3	161.56	6.003		
19,300.0	8,995.6	19,218.8	8,977.9	81.2	80.8	88.96	-10,140.7	-476.6	969.9	808.1	161.79	5.995		
19,380.0	8,995.7	19,298.8	8,978.0	81.8	81.4	88.96	-10,220.7	-477.3	969.9	806.9	162.98	5.951		
19,400.0	8,995.7	19,318.8	8,978.0	81.9	81.5	88.96	-10,240.7	-477.4	969.9	806.6	163.28	5.940		
19,475.0	8,995.7	19,393.8	8,978.1	82.5	82.1	88.96	-10,315.7	-478.1	969.9	805.5	164.40	5.899		
19,500.0	8,995.7	19,418.8	8,978.1	82.7	82.3	88.96	-10,340.7	-478.3	969.9	805.1	164.78	5.886		
19,570.0	8,995.7	19,488.8	8,978.1	83.2	82.8	88.96	-10,410.7	-478.8	969.9	804.0	165.83	5.849		
19,600.0	8,995.8	19,518.8	8,978.1	83.4	83.0	88.96	-10,440.7	-479.1	969.9	803.6	166.28	5.833		
19,665.0	8,995.8	19,583.8	8,978.2	83.9	83.5	88.96	-10,505.7	-479.6	969.9	802.6	167.25	5.799		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)		
19,700.0	8,995.8	19,618.8	8,978.2	84.1	83.8	88.96	-10,540.7	-479.9	969.9	802.1	167.77	5.781
19,760.0	8,995.8	19,678.8	8,978.2	84.6	84.2	88.96	-10,600.7	-480.4	969.9	801.2	168.67	5.750
19,800.0	8,995.9	19,718.8	8,978.2	84.9	84.5	88.96	-10,640.7	-480.7	969.9	800.6	169.27	5.730
19,855.0	8,995.9	19,773.8	8,978.3	85.3	84.9	88.96	-10,695.7	-481.2	969.9	799.8	170.10	5.702
19,900.0	8,995.9	19,818.8	8,978.3	85.6	85.3	88.96	-10,740.7	-481.6	969.9	799.1	170.77	5.679
19,950.0	8,995.9	19,868.8	8,978.3	86.0	85.6	88.96	-10,790.7	-482.0	969.9	798.4	171.52	5.655
20,000.0	8,995.9	19,918.8	8,978.4	86.4	86.0	88.96	-10,840.7	-482.4	969.9	797.6	172.27	5.630
20,045.0	8,996.0	19,963.8	8,978.4	86.7	86.3	88.96	-10,885.7	-482.8	969.9	796.9	172.94	5.608
20,100.0	8,996.0	20,018.8	8,978.4	87.1	86.8	88.96	-10,940.7	-483.2	969.9	796.1	173.77	5.581
20,140.0	8,996.0	20,058.8	8,978.5	87.4	87.1	88.96	-10,980.7	-483.5	969.9	795.5	174.37	5.562
20,200.0	8,996.0	20,118.8	8,978.5	87.9	87.5	88.96	-11,040.7	-484.0	969.9	794.6	175.27	5.534
20,235.0	8,996.1	20,153.8	8,978.5	88.1	87.8	88.96	-11,075.7	-484.3	969.9	794.1	175.79	5.517
20,300.0	8,996.1	20,218.8	8,978.5	88.6	88.3	88.96	-11,140.7	-484.9	969.9	793.1	176.77	5.487
20,330.0	8,996.1	20,248.8	8,978.6	88.9	88.5	88.96	-11,170.7	-485.1	969.9	792.7	177.22	5.473
20,400.0	8,996.1	20,318.8	8,978.6	89.4	89.0	88.96	-11,240.7	-485.7	969.9	791.6	178.27	5.440
20,425.0	8,996.1	20,343.8	8,978.6	89.6	89.2	88.96	-11,265.7	-485.9	969.9	791.2	178.65	5.429
20,500.0	8,996.2	20,418.8	8,978.7	90.1	89.8	88.97	-11,340.7	-486.5	969.9	790.1	179.77	5.395
20,520.0	8,996.2	20,438.8	8,978.7	90.3	89.9	88.97	-11,360.7	-486.7	969.9	789.8	180.07	5.386
20,600.0	8,996.2	20,518.8	8,978.7	90.9	90.5	88.97	-11,440.7	-487.3	969.9	788.6	181.27	5.350
20,615.0	8,996.2	20,533.8	8,978.7	91.0	90.6	88.97	-11,455.7	-487.5	969.9	788.4	181.50	5.344
20,700.0	8,996.3	20,618.8	8,978.8	91.6	91.3	88.97	-11,540.7	-488.2	969.9	787.1	182.78	5.306
20,710.0	8,996.3	20,628.8	8,978.8	91.7	91.3	88.97	-11,550.7	-488.3	969.9	787.0	182.93	5.302
20,800.0	8,996.3	20,718.8	8,978.8	92.4	92.0	88.97	-11,640.7	-489.0	969.9	785.6	184.28	5.263
20,805.0	8,996.3	20,723.8	8,978.9	92.4	92.1	88.97	-11,645.7	-489.0	969.9	785.5	184.35	5.261
20,900.0	8,996.4	20,818.8	8,978.9	93.1	92.8	88.97	-11,740.7	-489.8	969.9	784.1	185.78	5.221
20,995.0	8,996.4	20,913.8	8,979.0	93.8	93.5	88.97	-11,835.7	-490.6	969.9	782.7	187.21	5.181
21,000.0	8,996.4	20,918.8	8,979.0	93.9	93.5	88.97	-11,840.7	-490.7	969.9	782.6	187.29	5.179
21,090.0	8,996.5	21,008.8	8,979.0	94.6	94.2	88.97	-11,930.7	-491.4	969.9	781.2	188.64	5.141
21,100.0	8,996.5	21,018.8	8,979.0	94.6	94.3	88.97	-11,940.7	-491.5	969.9	781.1	188.79	5.137
21,185.0	8,996.5	21,103.8	8,979.1	95.3	94.9	88.97	-12,025.7	-492.2	969.9	779.8	190.07	5.103
21,200.0	8,996.5	21,118.8	8,979.1	95.4	95.0	88.97	-12,040.7	-492.3	969.9	779.6	190.29	5.097
21,280.0	8,996.5	21,198.8	8,979.1	96.0	95.6	88.97	-12,120.7	-493.0	969.9	778.4	191.50	5.065
21,300.0	8,996.6	21,218.8	8,979.1	96.1	95.8	88.97	-12,140.7	-493.1	969.9	778.1	191.80	5.057
21,375.0	8,996.6	21,293.8	8,979.2	96.7	96.3	88.97	-12,215.7	-493.8	969.9	777.0	192.93	5.027
21,400.0	8,996.6	21,318.8	8,979.2	96.9	96.5	88.97	-12,240.7	-494.0	969.9	776.6	193.30	5.017
21,470.0	8,996.6	21,388.8	8,979.3	97.4	97.1	88.97	-12,310.7	-494.5	969.9	775.5	194.36	4.990
21,500.0	8,996.6	21,418.8	8,979.3	97.6	97.3	88.97	-12,340.7	-494.8	969.9	775.1	194.81	4.979
21,565.0	8,996.7	21,483.8	8,979.3	98.1	97.8	88.97	-12,405.7	-495.3	969.9	774.1	195.79	4.954
21,600.0	8,996.7	21,518.8	8,979.3	98.4	98.0	88.97	-12,440.7	-495.6	969.9	773.6	196.32	4.940
21,660.0	8,996.7	21,578.8	8,979.4	98.8	98.5	88.97	-12,500.7	-496.1	969.9	772.7	197.22	4.918
21,700.0	8,996.7	21,618.8	8,979.4	99.1	98.8	88.97	-12,540.7	-496.4	969.9	772.1	197.82	4.903
21,755.0	8,996.8	21,673.8	8,979.4	99.5	99.2	88.98	-12,595.7	-496.9	969.9	771.2	198.65	4.882
21,800.0	8,996.8	21,718.8	8,979.4	99.9	99.5	88.98	-12,640.7	-497.3	969.9	770.6	199.33	4.866
21,850.0	8,996.8	21,768.8	8,979.5	100.3	99.9	88.98	-12,690.7	-497.7	969.9	769.8	200.08	4.847
21,900.0	8,996.8	21,818.8	8,979.5	100.6	100.3	88.98	-12,740.7	-498.1	969.9	769.0	200.83	4.829
21,945.0	8,996.9	21,863.8	8,979.5	101.0	100.6	88.98	-12,785.6	-498.5	969.9	768.4	201.51	4.813
22,000.0	8,996.9	21,918.8	8,979.6	101.4	101.1	88.98	-12,840.6	-498.9	969.9	767.5	202.34	4.793
22,040.0	8,996.9	21,958.8	8,979.6	101.7	101.4	88.98	-12,880.6	-499.2	969.9	766.9	202.95	4.779
22,100.0	8,996.9	22,018.8	8,979.6	102.1	101.8	88.98	-12,940.6	-499.7	969.9	766.0	203.85	4.758
22,135.0	8,996.9	22,053.8	8,979.7	102.4	102.1	88.98	-12,975.6	-500.0	969.9	765.5	204.38	4.746
22,200.0	8,997.0	22,118.8	8,979.7	102.9	102.6	88.98	-13,040.6	-500.6	969.9	764.5	205.36	4.723

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Rule Assigned:		Warning				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
22,230.0	8,997.0	22,148.8	8,979.7	103.1	102.8	88.98	-13,070.6	-500.8	969.9	764.1	205.81	4.713		
22,300.0	8,997.0	22,218.8	8,979.7	103.6	103.3	88.98	-13,140.6	-501.4	969.9	763.0	206.87	4.688		
22,325.0	8,997.0	22,243.8	8,979.8	103.8	103.5	88.98	-13,165.6	-501.6	969.9	762.6	207.24	4.680		
22,400.0	8,997.1	22,318.8	8,979.8	104.4	104.1	88.98	-13,240.6	-502.2	969.9	761.5	208.37	4.655		
22,420.0	8,997.1	22,338.8	8,979.8	104.6	104.2	88.98	-13,260.6	-502.4	969.9	761.2	208.68	4.648		
22,500.0	8,997.1	22,418.8	8,979.9	105.2	104.8	88.98	-13,340.6	-503.0	969.9	760.0	209.88	4.621		
22,515.0	8,997.1	22,433.8	8,979.9	105.3	104.9	88.98	-13,355.6	-503.2	969.9	759.8	210.11	4.616		
22,600.0	8,997.2	22,518.8	8,979.9	105.9	105.6	88.98	-13,440.6	-503.9	969.9	758.5	211.39	4.588		
22,610.0	8,997.2	22,528.8	8,979.9	106.0	105.7	88.98	-13,450.6	-504.0	969.9	758.3	211.54	4.585		
22,700.0	8,997.2	22,618.8	8,980.0	106.7	106.3	88.98	-13,540.6	-504.7	969.9	757.0	212.90	4.556		
22,705.0	8,997.2	22,623.8	8,980.0	106.7	106.4	88.98	-13,545.6	-504.7	969.9	756.9	212.98	4.554		
22,800.0	8,997.3	22,718.8	8,980.1	107.4	107.1	88.98	-13,640.6	-505.5	969.9	755.5	214.41	4.524		
22,895.0	8,997.3	22,813.8	8,980.1	108.1	107.8	88.98	-13,735.6	-506.3	969.9	754.0	215.84	4.493		
22,900.0	8,997.3	22,818.8	8,980.1	108.2	107.8	88.98	-13,740.6	-506.3	969.9	754.0	215.92	4.492		
22,990.0	8,997.3	22,908.8	8,980.2	108.8	108.5	88.99	-13,830.6	-507.1	969.9	752.6	217.28	4.464		
23,000.0	8,997.3	22,918.8	8,980.2	108.9	108.6	88.99	-13,840.6	-507.2	969.9	752.5	217.43	4.461		
23,085.0	8,997.4	23,003.8	8,980.2	109.6	109.2	88.99	-13,925.6	-507.9	969.9	751.2	218.71	4.435		
23,100.0	8,997.4	23,018.8	8,980.2	109.7	109.4	88.99	-13,940.6	-508.0	969.9	751.0	218.94	4.430		
23,180.0	8,997.4	23,098.8	8,980.3	110.3	110.0	88.99	-14,020.6	-508.7	969.9	749.7	220.15	4.406		
23,200.0	8,997.4	23,118.8	8,980.3	110.4	110.1	88.99	-14,040.6	-508.8	969.9	749.4	220.45	4.400		
23,275.0	8,997.5	23,193.8	8,980.3	111.0	110.7	88.99	-14,115.6	-509.4	969.9	748.3	221.58	4.377		
23,300.0	8,997.5	23,218.8	8,980.4	111.2	110.9	88.99	-14,140.6	-509.7	969.9	747.9	221.96	4.370		
23,370.0	8,997.5	23,288.8	8,980.4	111.7	111.4	88.99	-14,210.6	-510.2	969.9	746.9	223.02	4.349		
23,400.0	8,997.5	23,318.8	8,980.4	111.9	111.6	88.99	-14,240.6	-510.5	969.9	746.4	223.47	4.340		
23,465.0	8,997.6	23,383.8	8,980.4	112.4	112.1	88.99	-14,305.6	-511.0	969.9	745.4	224.45	4.321		
23,500.0	8,997.6	23,418.8	8,980.5	112.7	112.4	88.99	-14,340.6	-511.3	969.9	744.9	224.98	4.311		
23,560.0	8,997.6	23,478.8	8,980.5	113.1	112.8	88.99	-14,400.6	-511.8	969.9	744.0	225.89	4.294		
23,600.0	8,997.6	23,518.8	8,980.5	113.4	113.1	88.99	-14,440.6	-512.1	969.9	743.4	226.50	4.282		
23,655.0	8,997.6	23,573.8	8,980.6	113.9	113.5	88.99	-14,495.6	-512.6	969.9	742.6	227.33	4.267		
23,700.0	8,997.7	23,618.8	8,980.6	114.2	113.9	88.99	-14,540.6	-513.0	969.9	741.9	228.01	4.254		
23,750.0	8,997.7	23,668.8	8,980.6	114.6	114.3	88.99	-14,590.6	-513.4	969.9	741.1	228.76	4.240		
23,800.0	8,997.7	23,718.8	8,980.7	115.0	114.6	88.99	-14,640.6	-513.8	969.9	740.4	229.52	4.226		
23,845.0	8,997.7	23,763.8	8,980.7	115.3	115.0	88.99	-14,685.6	-514.2	969.9	739.7	230.20	4.213		
23,900.0	8,997.8	23,818.8	8,980.7	115.7	115.4	88.99	-14,740.6	-514.6	969.9	738.9	231.03	4.198		
23,940.0	8,997.8	23,858.8	8,980.7	116.0	115.7	88.99	-14,780.6	-514.9	969.9	738.3	231.64	4.187		
24,000.0	8,997.8	23,918.8	8,980.8	116.5	116.2	88.99	-14,840.6	-515.4	969.9	737.4	232.54	4.171		
24,035.0	8,997.8	23,953.8	8,980.8	116.7	116.4	88.99	-14,875.6	-515.7	969.9	736.8	233.07	4.161		
24,100.0	8,997.9	24,018.8	8,980.8	117.2	116.9	88.99	-14,940.6	-516.3	969.9	735.8	234.06	4.144		
24,130.0	8,997.9	24,048.8	8,980.8	117.5	117.1	88.99	-14,970.6	-516.5	969.9	735.4	234.51	4.136		
24,200.0	8,997.9	24,118.8	8,980.9	118.0	117.7	89.00	-15,040.6	-517.1	969.9	734.3	235.57	4.117		
24,225.0	8,997.9	24,143.8	8,980.9	118.2	117.9	89.00	-15,065.6	-517.3	969.9	734.0	235.95	4.111		
24,275.8	8,997.9	24,194.6	8,980.9	118.6	118.2	89.00	-15,116.4	-517.7	969.9	733.2	236.71	4.097		
24,300.0	8,998.0	24,218.8	8,981.0	118.7	118.4	89.00	-15,140.6	-517.9	969.9	732.8	237.08	4.091		
24,320.0	8,998.0	24,238.8	8,981.0	118.9	118.6	89.00	-15,160.6	-518.1	969.9	732.5	237.38	4.086		
24,320.0	8,998.0	24,238.8	8,981.0	118.9	118.6	89.00	-15,160.6	-518.1	969.9	732.5	237.38	4.086		
24,405.9	8,998.0	24,298.5	8,981.0	119.5	119.0	89.00	-15,220.3	-518.6	970.3	731.9	238.37	4.070 SF		

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

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Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	0.0	0.0	3.0	3.0	-91.02	-1.6	-90.0	90.0				
95.0	95.0	95.0	95.0	3.0	3.0	-91.02	-1.6	-90.0	90.0	84.0	6.04	14.913	
100.0	100.0	100.0	100.0	3.0	3.0	-91.02	-1.6	-90.0	90.0	84.0	6.04	14.901	
190.0	190.0	190.0	190.0	3.1	3.1	-91.02	-1.6	-90.0	90.0	83.8	6.25	14.397	
200.0	200.0	200.0	200.0	3.1	3.1	-91.02	-1.6	-90.0	90.0	83.7	6.29	14.319	
285.0	285.0	285.0	285.0	3.3	3.3	-91.02	-1.6	-90.0	90.0	83.5	6.48	13.885	
300.0	300.0	300.0	300.0	3.3	3.3	-91.02	-1.6	-90.0	90.0	83.5	6.52	13.801	
380.0	380.0	380.0	380.0	3.4	3.4	-91.02	-1.6	-90.0	90.0	83.3	6.70	13.431	
400.0	400.0	400.0	400.0	3.4	3.4	-91.02	-1.6	-90.0	90.0	83.3	6.75	13.335	
475.0	475.0	475.0	475.0	3.5	3.5	-91.02	-1.6	-90.0	90.0	83.1	6.91	13.020	
500.0	500.0	500.0	500.0	3.5	3.5	-91.02	-1.6	-90.0	90.0	83.0	6.97	12.913	
570.0	570.0	570.0	570.0	3.6	3.6	-91.02	-1.6	-90.0	90.0	82.9	7.12	12.645	
600.0	600.0	600.0	600.0	3.6	3.6	-91.02	-1.6	-90.0	90.0	82.8	7.18	12.529	
665.0	665.0	665.0	665.0	3.7	3.7	-91.02	-1.6	-90.0	90.0	82.7	7.32	12.300	
700.0	700.0	700.0	700.0	3.8	3.8	-91.02	-1.6	-90.0	90.0	82.6	7.39	12.177	
760.0	760.0	760.0	760.0	3.8	3.8	-91.02	-1.6	-90.0	90.0	82.5	7.51	11.983	
800.0	800.0	800.0	800.0	3.9	3.9	-91.02	-1.6	-90.0	90.0	82.4	7.59	11.854	
855.0	855.0	855.0	855.0	4.0	4.0	-91.02	-1.6	-90.0	90.0	82.3	7.70	11.689	
900.0	900.0	900.0	900.0	4.0	4.0	-91.02	-1.6	-90.0	90.0	82.2	7.79	11.554	
950.0	950.0	950.0	950.0	4.1	4.1	-91.02	-1.6	-90.0	90.0	82.1	7.89	11.415	
1,000.0	1,000.0	1,000.0	1,000.0	4.1	4.1	-91.02	-1.6	-90.0	90.0	82.0	7.98	11.277	
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2	-91.02	-1.6	-90.0	90.0	81.9	8.07	11.160	
1,100.0	1,100.0	1,100.0	1,100.0	4.2	4.2	-91.02	-1.6	-90.0	90.0	81.8	8.17	11.018	
1,140.0	1,140.0	1,140.0	1,140.0	4.3	4.3	-91.02	-1.6	-90.0	90.0	81.8	8.24	10.921	
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4	-91.02	-1.6	-90.0	90.0	81.7	8.35	10.777	
1,235.0	1,235.0	1,235.0	1,235.0	4.4	4.4	-91.02	-1.6	-90.0	90.0	81.6	8.41	10.697	
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5	-91.02	-1.6	-90.0	90.0	81.5	8.53	10.550	
1,330.0	1,330.0	1,330.0	1,330.0	4.5	4.5	-91.02	-1.6	-90.0	90.0	81.4	8.58	10.486	
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-91.02	-1.6	-90.0	90.0	81.3	8.71	10.338	
1,425.0	1,425.0	1,425.0	1,425.0	4.6	4.6	-91.02	-1.6	-90.0	90.0	81.3	8.75	10.287	
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-91.02	-1.6	-90.0	90.0	81.1	8.88	10.137 CC, ES	
1,520.0	1,520.0	1,519.4	1,519.4	4.7	4.7	-147.69	-1.6	-90.1	90.1	81.2	8.95	10.076 SF	
1,600.0	1,600.0	1,597.1	1,597.1	4.9	4.8	-147.82	-1.0	-91.5	93.1	83.8	9.21	10.102	
1,615.0	1,615.0	1,611.6	1,611.6	4.9	4.9	-147.86	-0.8	-92.0	94.0	84.8	9.28	10.130	
1,700.0	1,699.8	1,693.6	1,693.5	5.1	5.0	-148.17	0.8	-96.1	102.2	92.5	9.70	10.529	
1,710.0	1,709.8	1,703.3	1,703.1	5.1	5.0	-148.21	1.1	-96.7	103.4	93.6	9.75	10.602	
1,800.0	1,799.5	1,789.1	1,788.6	5.3	5.3	-148.61	3.8	-103.6	117.3	107.1	10.21	11.489	
1,805.0	1,804.4	1,793.9	1,793.4	5.4	5.3	-148.64	3.9	-104.0	118.2	107.9	10.23	11.549	
1,900.0	1,898.7	1,883.1	1,881.9	5.6	5.5	-149.04	7.8	-113.8	138.3	127.6	10.73	12.894	
1,995.0	1,992.5	1,970.4	1,968.3	5.9	5.8	-149.37	12.6	-125.8	163.6	152.4	11.23	14.569	
2,000.0	1,997.5	1,975.0	1,972.8	5.9	5.8	-149.39	12.9	-126.5	165.1	153.8	11.26	14.666	
2,090.0	2,085.8	2,055.6	2,052.1	6.3	6.1	-149.61	18.2	-139.9	194.1	182.3	11.75	16.518	
2,100.0	2,095.6	2,064.4	2,060.8	6.3	6.1	-149.62	18.8	-141.5	197.5	185.7	11.80	16.738	
2,185.0	2,178.5	2,138.3	2,133.0	6.6	6.4	-149.73	24.5	-155.8	229.4	217.1	12.27	18.693	
2,199.8	2,192.9	2,150.9	2,145.3	6.6	6.4	-149.74	25.5	-158.5	235.3	223.0	12.35	19.050	
2,280.0	2,270.7	2,220.1	2,212.6	6.9	6.7	-150.03	31.6	-173.6	268.5	255.8	12.76	21.037	
2,300.0	2,290.1	2,238.3	2,230.2	7.0	6.7	-150.09	33.2	-177.7	276.9	264.0	12.87	21.514	
2,375.0	2,362.9	2,306.4	2,296.3	7.2	6.9	-150.26	39.2	-193.0	308.3	295.1	13.28	23.217	
2,400.0	2,387.1	2,329.1	2,318.3	7.3	7.0	-150.31	41.3	-198.1	318.8	305.4	13.42	23.755	
2,470.0	2,455.0	2,392.6	2,379.9	7.5	7.2	-150.44	46.9	-212.4	348.2	334.3	13.82	25.186	
2,500.0	2,484.1	2,419.8	2,406.4	7.6	7.3	-150.48	49.4	-218.6	360.7	346.7	14.00	25.769	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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 Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
2,565.0	2,547.2	2,478.9	2,463.6	7.9	7.5	-150.58	54.6	-231.8	388.0	373.6	14.39	26.963	
2,600.0	2,581.2	2,510.6	2,494.5	8.0	7.6	-150.62	57.5	-239.0	402.6	388.0	14.60	27.576	
2,660.0	2,639.4	2,565.1	2,547.3	8.2	7.8	-150.69	62.3	-251.2	427.8	412.8	14.98	28.566	
2,700.0	2,678.2	2,601.4	2,582.6	8.4	8.0	-150.73	65.5	-259.4	444.6	429.3	15.23	29.198	
2,755.0	2,731.6	2,651.4	2,631.0	8.6	8.1	-150.79	70.0	-270.6	467.6	452.0	15.58	30.014	
2,800.0	2,775.2	2,692.2	2,670.6	8.7	8.3	-150.82	73.6	-279.8	486.5	470.6	15.87	30.653	
2,850.0	2,823.8	2,737.6	2,714.7	8.9	8.5	-150.86	77.7	-290.0	507.4	491.2	16.20	31.323	
2,900.0	2,872.3	2,783.0	2,758.7	9.1	8.7	-150.90	81.7	-300.2	528.4	511.9	16.53	31.963	
2,945.0	2,915.9	2,823.9	2,798.4	9.3	8.8	-150.93	85.4	-309.4	547.3	530.4	16.84	32.507	
3,000.0	2,969.3	2,873.8	2,846.8	9.5	9.0	-150.97	89.8	-320.7	570.3	553.1	17.21	33.142	
3,040.0	3,008.1	2,910.1	2,882.1	9.7	9.2	-150.99	93.1	-328.8	587.1	569.6	17.48	33.580	
3,100.0	3,066.3	2,964.6	2,934.9	10.0	9.4	-151.02	97.9	-341.1	612.2	594.3	17.90	34.207	
3,135.0	3,100.3	2,996.4	2,965.7	10.1	9.5	-151.04	100.8	-348.2	626.9	608.8	18.14	34.555	
3,200.0	3,163.4	3,055.4	3,023.0	10.4	9.7	-151.07	106.0	-361.5	654.2	635.6	18.60	35.170	
3,230.0	3,192.5	3,082.6	3,049.4	10.5	9.9	-151.09	108.5	-367.6	666.7	647.9	18.81	35.440	
3,300.0	3,260.4	3,146.2	3,111.1	10.8	10.1	-151.12	114.1	-381.9	696.1	676.8	19.31	36.043	
3,325.0	3,284.7	3,168.9	3,133.1	10.9	10.2	-151.13	116.1	-387.0	706.6	687.1	19.49	36.248	
3,400.0	3,357.4	3,236.9	3,199.2	11.2	10.5	-151.16	122.2	-402.4	738.0	718.0	20.03	36.837	
3,420.0	3,376.8	3,255.1	3,216.8	11.3	10.6	-151.16	123.8	-406.4	746.4	726.2	20.18	36.986	
3,500.0	3,454.5	3,327.7	3,287.3	11.7	10.9	-151.19	130.3	-422.8	779.9	759.2	20.76	37.559	
3,515.0	3,469.0	3,341.3	3,300.5	11.7	11.0	-151.20	131.5	-425.8	786.2	765.3	20.88	37.662	
3,600.0	3,551.5	3,418.5	3,375.4	12.1	11.3	-151.22	138.4	-443.2	821.8	800.3	21.50	38.219	
3,610.0	3,561.2	3,427.6	3,384.2	12.2	11.3	-151.23	139.2	-445.2	826.0	804.5	21.58	38.282	
3,700.0	3,648.5	3,509.3	3,463.5	12.5	11.7	-151.25	146.5	-463.6	863.8	841.5	22.25	38.823	
3,705.0	3,653.4	3,513.8	3,467.9	12.6	11.7	-151.25	146.9	-464.6	865.9	843.6	22.29	38.852	
3,800.0	3,745.6	3,600.1	3,551.5	13.0	12.1	-151.28	154.6	-484.0	905.7	882.7	23.00	39.378	
3,895.0	3,837.7	3,686.3	3,635.2	13.4	12.5	-151.30	162.3	-503.4	945.5	921.8	23.72	39.862	
3,900.0	3,842.6	3,690.9	3,639.6	13.4	12.5	-151.30	162.7	-504.5	947.6	923.8	23.76	39.887	
3,990.0	3,929.9	3,772.6	3,718.9	13.9	12.9	-151.32	170.0	-522.8	985.3	960.9	24.44	40.310	
4,000.0	3,939.6	3,781.7	3,727.7	13.9	12.9	-151.32	170.8	-524.9	989.5	965.0	24.52	40.356	
4,019.1	3,958.1	3,799.0	3,744.5	14.0	13.0	-151.32	172.3	-528.8	997.5	972.9	24.66	40.454	
4,085.0	4,022.3	3,859.1	3,802.9	14.3	13.2	-151.60	177.7	-542.3	1,024.6	999.4	25.16	40.717	
4,100.0	4,036.9	3,872.9	3,816.2	14.3	13.3	-151.65	178.9	-545.4	1,030.5	1,005.3	25.28	40.768	
4,180.0	4,115.3	3,946.7	3,887.8	14.7	13.6	-151.89	185.5	-562.0	1,061.4	1,035.4	25.91	40.967	
4,200.0	4,134.9	3,965.2	3,905.8	14.8	13.7	-151.93	187.2	-566.2	1,068.8	1,042.7	26.07	41.003	
4,275.0	4,208.9	4,035.2	3,973.8	15.2	14.0	-152.07	193.4	-581.9	1,095.6	1,068.9	26.65	41.108	
4,300.0	4,233.6	4,058.7	3,996.5	15.3	14.2	-152.10	195.5	-587.2	1,104.2	1,077.3	26.85	41.127	
4,370.0	4,303.0	4,124.7	4,060.6	15.6	14.5	-152.15	201.4	-602.1	1,127.2	1,099.8	27.39	41.159	
4,400.0	4,332.8	4,153.1	4,088.2	15.7	14.6	-152.15	203.9	-608.5	1,136.7	1,109.0	27.62	41.155	
4,465.0	4,397.4	4,215.0	4,148.2	16.0	14.9	-152.13	209.4	-622.4	1,156.2	1,128.1	28.11	41.133	
4,500.0	4,432.3	4,248.4	4,180.6	16.1	15.0	-152.10	212.4	-629.9	1,166.2	1,137.9	28.37	41.102	
4,560.0	4,492.2	4,306.0	4,236.5	16.3	15.3	-152.03	217.5	-642.8	1,182.6	1,153.8	28.81	41.046	
4,600.0	4,532.1	4,344.5	4,273.8	16.5	15.5	-151.96	221.0	-651.5	1,192.9	1,163.8	29.10	40.988	
4,655.0	4,587.1	4,397.6	4,325.3	16.7	15.7	-151.84	225.7	-663.4	1,206.4	1,176.9	29.47	40.928	
4,700.0	4,632.1	4,441.1	4,367.6	16.8	15.9	-151.73	229.6	-673.2	1,216.7	1,186.9	29.78	40.857	
4,718.9	4,651.0	4,459.5	4,385.4	16.8	16.0	-95.01	231.2	-677.4	1,220.9	1,191.0	29.87	40.869	
4,750.0	4,682.1	4,489.6	4,414.7	16.8	16.1	-94.85	233.9	-684.1	1,227.6	1,197.6	30.02	40.898	
4,800.0	4,732.1	4,538.2	4,461.7	16.8	16.4	-94.61	238.2	-695.1	1,238.5	1,208.3	30.25	40.943	
4,845.0	4,777.1	4,581.8	4,504.1	16.9	16.6	-94.39	242.1	-704.9	1,248.4	1,217.9	30.47	40.976	
4,900.0	4,832.1	4,635.3	4,555.9	16.9	16.8	-94.12	246.9	-716.9	1,260.4	1,229.7	30.72	41.028	
4,940.0	4,872.1	4,683.8	4,603.1	16.9	17.0	-93.89	251.1	-727.6	1,269.0	1,238.0	30.99	40.956	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Vertical	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Warning				
Measured	Vertical	Measured	Vertical	Reference	Offset	Highside	Between	Between	Minimum	Separation			
Depth	Depth	Depth	Depth			Toolface	Centres	Ellipses	Separation	Factor			
(usft)	(usft)	(usft)	(usft)	(usft)	(usft)	(°)	+N/-S	+E/-W	(usft)	(usft)	(usft)		
							(usft)	(usft)					
5,000.0	4,932.1	4,757.0	4,674.4	16.9	17.4	-93.56	257.3	-743.1	1,281.4	1,250.0	31.39	40.822	
5,035.0	4,967.1	4,800.0	4,716.3	17.0	17.6	-93.38	260.7	-751.8	1,288.3	1,256.7	31.63	40.735	
5,100.0	5,032.1	4,880.0	4,794.6	17.0	17.9	-93.07	266.8	-767.2	1,300.6	1,268.5	32.06	40.567	
5,130.0	5,062.1	4,917.1	4,831.0	17.0	18.1	-92.93	269.5	-774.0	1,306.0	1,273.7	32.26	40.485	
5,200.0	5,132.1	5,004.1	4,916.5	17.0	18.5	-92.64	275.5	-789.1	1,317.9	1,285.2	32.72	40.283	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-91.00	-2.1	-120.0	120.0				
95.0	95.0	94.9	94.9	3.0	3.0	-91.00	-2.1	-120.0	120.0	114.0	6.04	19.884	
100.0	100.0	99.9	99.9	3.0	3.0	-91.00	-2.1	-120.0	120.0	114.0	6.04	19.868	
190.0	190.0	189.9	189.9	3.1	3.1	-91.00	-2.1	-120.0	120.0	113.8	6.25	19.197	
200.0	200.0	199.9	199.9	3.1	3.1	-91.00	-2.1	-120.0	120.0	113.7	6.29	19.093	
285.0	285.0	284.9	284.9	3.3	3.3	-91.00	-2.1	-120.0	120.0	113.5	6.48	18.513	
300.0	300.0	299.9	299.9	3.3	3.3	-91.00	-2.1	-120.0	120.0	113.5	6.52	18.401	
380.0	380.0	379.9	379.9	3.4	3.4	-91.00	-2.1	-120.0	120.0	113.3	6.70	17.908	
400.0	400.0	399.9	399.9	3.4	3.4	-91.00	-2.1	-120.0	120.0	113.3	6.75	17.780	
475.0	475.0	474.9	474.9	3.5	3.5	-91.00	-2.1	-120.0	120.0	113.1	6.91	17.360	
500.0	500.0	499.9	499.9	3.5	3.5	-91.00	-2.1	-120.0	120.0	113.0	6.97	17.218	
570.0	570.0	569.9	569.9	3.6	3.6	-91.00	-2.1	-120.0	120.0	112.9	7.12	16.860	
600.0	600.0	599.9	599.9	3.6	3.6	-91.00	-2.1	-120.0	120.0	112.8	7.18	16.706	
665.0	665.0	664.9	664.9	3.7	3.7	-91.00	-2.1	-120.0	120.0	112.7	7.32	16.401	
700.0	700.0	699.9	699.9	3.8	3.8	-91.00	-2.1	-120.0	120.0	112.6	7.39	16.236	
760.0	760.0	759.9	759.9	3.8	3.8	-91.00	-2.1	-120.0	120.0	112.5	7.51	15.977	
800.0	800.0	799.9	799.9	3.9	3.9	-91.00	-2.1	-120.0	120.0	112.4	7.59	15.805	
855.0	855.0	854.9	854.9	4.0	4.0	-91.00	-2.1	-120.0	120.0	112.3	7.70	15.585	
900.0	900.0	899.9	899.9	4.0	4.0	-91.00	-2.1	-120.0	120.0	112.2	7.79	15.406	
950.0	950.0	949.9	949.9	4.1	4.1	-91.00	-2.1	-120.0	120.0	112.1	7.89	15.220	
1,000.0	1,000.0	999.9	999.9	4.1	4.1	-91.00	-2.1	-120.0	120.0	112.0	7.98	15.036	
1,045.0	1,045.0	1,044.9	1,044.9	4.2	4.2	-91.00	-2.1	-120.0	120.0	112.0	8.07	14.880	
1,100.0	1,100.0	1,099.9	1,099.9	4.2	4.2	-91.00	-2.1	-120.0	120.0	111.8	8.17	14.691	
1,140.0	1,140.0	1,139.9	1,139.9	4.3	4.3	-91.00	-2.1	-120.0	120.0	111.8	8.24	14.561	
1,200.0	1,200.0	1,199.9	1,199.9	4.4	4.4	-91.00	-2.1	-120.0	120.0	111.7	8.35	14.369	
1,235.0	1,235.0	1,234.9	1,234.9	4.4	4.4	-91.00	-2.1	-120.0	120.0	111.6	8.41	14.263	
1,300.0	1,300.0	1,299.9	1,299.9	4.5	4.5	-91.00	-2.1	-120.0	120.0	111.5	8.53	14.067	
1,330.0	1,330.0	1,329.9	1,329.9	4.5	4.5	-91.00	-2.1	-120.0	120.0	111.4	8.58	13.982	
1,400.0	1,400.0	1,399.9	1,399.9	4.6	4.6	-91.00	-2.1	-120.0	120.0	111.3	8.71	13.784	
1,425.0	1,425.0	1,424.9	1,424.9	4.6	4.6	-91.00	-2.1	-120.0	120.0	111.3	8.75	13.716	
1,500.0	1,500.0	1,499.9	1,499.9	4.7	4.7	-91.00	-2.1	-120.0	120.0	111.1	8.88	13.517 CC, ES	
1,520.0	1,520.0	1,519.1	1,519.1	4.7	4.7	-147.67	-2.1	-120.1	120.1	111.2	8.95	13.429	
1,600.0	1,600.0	1,595.9	1,595.9	4.9	4.8	-147.86	-1.7	-121.6	123.1	113.9	9.22	13.355 SF	
1,615.0	1,615.0	1,610.3	1,610.3	4.9	4.8	-147.92	-1.6	-122.1	124.1	114.8	9.29	13.361	
1,700.0	1,699.8	1,691.4	1,691.2	5.1	5.0	-148.38	-0.6	-126.2	132.4	122.7	9.71	13.627	
1,710.0	1,709.8	1,700.0	1,699.8	5.1	5.0	-148.44	-0.4	-126.8	133.7	123.9	9.76	13.694	
1,800.0	1,799.5	1,785.7	1,785.2	5.3	5.2	-149.09	1.3	-133.8	147.8	137.6	10.23	14.452	
1,805.0	1,804.4	1,790.4	1,789.9	5.4	5.2	-149.13	1.4	-134.3	148.7	138.5	10.25	14.506	
1,900.0	1,898.7	1,878.4	1,877.3	5.6	5.5	-149.83	3.8	-144.2	169.3	158.5	10.75	15.740	
1,995.0	1,992.5	1,964.6	1,962.5	5.9	5.8	-150.48	6.8	-156.5	195.2	183.9	11.27	17.318	
2,000.0	1,997.5	1,969.1	1,967.0	5.9	5.8	-150.51	7.0	-157.2	196.7	185.4	11.30	17.410	
2,090.0	2,085.8	2,048.5	2,045.1	6.3	6.0	-151.02	10.3	-170.8	226.3	214.5	11.80	19.183	
2,100.0	2,095.6	2,057.1	2,053.6	6.3	6.1	-151.07	10.7	-172.5	229.9	218.0	11.85	19.395	
2,185.0	2,178.5	2,129.7	2,124.7	6.6	6.3	-151.43	14.3	-187.0	262.4	250.1	12.33	21.288	
2,199.8	2,192.9	2,142.1	2,136.8	6.6	6.4	-151.48	14.9	-189.6	268.5	256.1	12.41	21.635	
2,280.0	2,270.7	2,209.3	2,202.1	6.9	6.6	-151.99	18.6	-204.9	302.5	289.7	12.83	23.588	
2,300.0	2,290.1	2,227.4	2,219.6	7.0	6.7	-152.09	19.7	-209.1	311.2	298.2	12.93	24.057	
2,375.0	2,362.9	2,295.0	2,285.2	7.2	6.9	-152.44	23.6	-225.0	343.5	330.2	13.35	25.731	
2,400.0	2,387.1	2,317.5	2,307.1	7.3	7.0	-152.55	24.9	-230.3	354.3	340.8	13.49	26.260	
2,470.0	2,455.0	2,380.7	2,368.3	7.5	7.2	-152.80	28.5	-245.1	384.6	370.7	13.90	27.659	
2,500.0	2,484.1	2,407.7	2,394.6	7.6	7.3	-152.90	30.0	-251.5	397.5	383.5	14.08	28.230	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	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)		
2,565.0	2,547.2	2,466.3	2,451.5	7.9	7.5	-153.09	33.4	-265.2	425.6	411.1	14.48	29.393
2,600.0	2,581.2	2,497.9	2,482.1	8.0	7.6	-153.19	35.2	-272.7	440.7	426.1	14.70	29.991
2,660.0	2,639.4	2,552.0	2,534.6	8.2	7.8	-153.33	38.3	-285.4	466.7	451.6	15.08	30.952
2,700.0	2,678.2	2,588.0	2,569.6	8.4	7.9	-153.42	40.4	-293.9	484.0	468.6	15.33	31.564
2,755.0	2,731.6	2,637.6	2,617.7	8.6	8.1	-153.54	43.3	-305.5	507.7	492.0	15.69	32.354
2,800.0	2,775.2	2,678.2	2,657.0	8.7	8.2	-153.62	45.6	-315.0	527.2	511.2	15.99	32.970
2,850.0	2,823.8	2,723.3	2,700.8	8.9	8.4	-153.71	48.2	-325.6	548.8	532.5	16.33	33.616
2,900.0	2,872.3	2,768.4	2,744.5	9.1	8.6	-153.79	50.8	-336.2	570.4	553.7	16.66	34.230
2,945.0	2,915.9	2,808.9	2,783.9	9.3	8.7	-153.85	53.1	-345.8	589.9	572.9	16.97	34.754
3,000.0	2,969.3	2,858.5	2,832.0	9.5	8.9	-153.93	56.0	-357.4	613.6	596.3	17.35	35.361
3,040.0	3,008.1	2,894.6	2,867.0	9.7	9.1	-153.98	58.0	-365.9	630.9	613.3	17.63	35.781
3,100.0	3,066.3	2,948.7	2,919.5	10.0	9.3	-154.05	61.1	-378.6	656.9	638.8	18.06	36.378
3,135.0	3,100.3	2,980.2	2,950.1	10.1	9.4	-154.09	62.9	-386.0	672.0	653.7	18.31	36.709
3,200.0	3,163.4	3,038.8	3,007.0	10.4	9.7	-154.16	66.3	-399.8	700.1	681.3	18.77	37.295
3,230.0	3,192.5	3,065.9	3,033.2	10.5	9.8	-154.19	67.9	-406.2	713.1	694.1	18.99	37.551
3,300.0	3,260.4	3,129.0	3,094.5	10.8	10.0	-154.26	71.5	-421.0	743.3	723.8	19.50	38.123
3,325.0	3,284.7	3,151.6	3,116.3	10.9	10.1	-154.28	72.8	-426.3	754.1	734.5	19.68	38.316
3,400.0	3,357.4	3,219.2	3,182.0	11.2	10.4	-154.34	76.7	-442.2	786.6	766.3	20.23	38.873
3,420.0	3,376.8	3,237.2	3,199.5	11.3	10.5	-154.36	77.7	-446.4	795.2	774.8	20.38	39.013
3,500.0	3,454.5	3,309.3	3,269.4	11.7	10.8	-154.42	81.9	-463.4	829.8	808.8	20.98	39.553
3,515.0	3,469.0	3,322.9	3,282.6	11.7	10.9	-154.43	82.6	-466.6	836.3	815.2	21.09	39.649
3,600.0	3,551.5	3,399.5	3,356.9	12.1	11.2	-154.49	87.0	-484.6	873.1	851.3	21.73	40.173
3,610.0	3,561.2	3,408.5	3,365.7	12.2	11.2	-154.50	87.6	-486.7	877.4	855.6	21.81	40.231
3,700.0	3,648.5	3,489.7	3,444.4	12.5	11.6	-154.55	92.2	-505.8	916.3	893.8	22.49	40.737
3,705.0	3,653.4	3,494.2	3,448.8	12.6	11.6	-154.56	92.5	-506.8	918.5	895.9	22.53	40.764
3,800.0	3,745.6	3,579.8	3,531.9	13.0	12.0	-154.61	97.4	-526.9	959.5	936.3	23.26	41.254
3,895.0	3,837.7	3,665.5	3,615.0	13.4	12.4	-154.66	102.3	-547.1	1,000.6	976.6	23.99	41.704
3,900.0	3,842.6	3,670.0	3,619.4	13.4	12.4	-154.66	102.6	-548.1	1,002.8	978.7	24.03	41.727
3,990.0	3,929.9	3,751.1	3,698.1	13.9	12.8	-154.70	107.2	-567.2	1,041.7	1,017.0	24.73	42.120
4,000.0	3,939.6	3,760.2	3,706.9	13.9	12.8	-154.71	107.8	-569.3	1,046.0	1,021.2	24.81	42.162
4,019.1	3,958.1	3,777.4	3,723.6	14.0	12.9	-154.72	108.8	-573.4	1,054.3	1,029.3	24.95	42.254
4,085.0	4,022.3	3,837.1	3,781.5	14.3	13.1	-154.99	112.2	-587.4	1,082.2	1,056.7	25.47	42.494
4,100.0	4,036.9	3,850.8	3,794.8	14.3	13.2	-155.04	113.0	-590.6	1,088.3	1,062.7	25.58	42.540
4,180.0	4,115.3	3,924.2	3,866.0	14.7	13.5	-155.29	117.2	-607.9	1,120.1	1,093.9	26.23	42.710
4,200.0	4,134.9	3,942.6	3,883.9	14.8	13.6	-155.34	118.3	-612.2	1,127.8	1,101.4	26.39	42.739
4,275.0	4,208.9	4,012.3	3,951.5	15.2	13.9	-155.49	122.3	-628.6	1,155.5	1,128.5	26.99	42.816
4,300.0	4,233.6	4,035.7	3,974.2	15.3	14.0	-155.53	123.6	-634.1	1,164.3	1,137.2	27.19	42.825
4,370.0	4,303.0	4,101.4	4,038.0	15.6	14.3	-155.60	127.4	-649.5	1,188.2	1,160.4	27.74	42.831
4,400.0	4,332.8	4,129.8	4,065.5	15.7	14.5	-155.62	129.0	-656.2	1,197.9	1,169.9	27.98	42.815
4,465.0	4,397.4	4,191.5	4,125.4	16.0	14.8	-155.63	132.6	-670.7	1,218.1	1,189.7	28.48	42.768
4,500.0	4,432.3	4,224.8	4,157.7	16.1	14.9	-155.62	134.5	-678.5	1,228.5	1,199.7	28.75	42.724
4,560.0	4,492.2	4,282.3	4,213.5	16.3	15.2	-155.58	137.8	-692.0	1,245.4	1,216.2	29.20	42.646
4,600.0	4,532.1	4,320.7	4,250.8	16.5	15.3	-155.53	140.0	-701.1	1,256.1	1,226.6	29.50	42.574
4,655.0	4,587.1	4,373.8	4,302.2	16.7	15.6	-155.45	143.0	-713.5	1,269.9	1,240.1	29.88	42.495
4,700.0	4,632.1	4,417.3	4,344.5	16.8	15.8	-155.37	145.5	-723.8	1,280.6	1,250.4	30.20	42.408
4,718.9	4,651.0	4,435.6	4,362.3	16.8	15.9	-98.67	146.6	-728.1	1,284.9	1,254.6	30.29	42.415
4,750.0	4,682.1	4,465.8	4,391.6	16.8	16.0	-98.54	148.3	-735.2	1,291.9	1,261.5	30.44	42.439
4,800.0	4,732.1	4,514.3	4,438.6	16.8	16.2	-98.34	151.1	-746.6	1,303.2	1,272.5	30.68	42.476
4,845.0	4,777.1	4,558.0	4,481.0	16.9	16.4	-98.16	153.6	-756.8	1,313.3	1,282.4	30.90	42.500

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-22.72	149.0	-62.4	161.6				
95.0	95.0	91.0	91.0	3.0	3.0	-22.72	149.0	-62.4	161.5	155.5	6.03	26.768	
100.0	100.0	96.0	96.0	3.0	3.0	-22.72	149.0	-62.4	161.5	155.5	6.04	26.746	
190.0	190.0	186.0	186.0	3.1	3.1	-22.72	149.0	-62.4	161.5	155.3	6.25	25.843	
200.0	200.0	196.0	196.0	3.1	3.1	-22.72	149.0	-62.4	161.5	155.3	6.29	25.701	
285.0	285.0	281.0	281.0	3.3	3.2	-22.72	149.0	-62.4	161.5	155.0	6.49	24.878	
300.0	300.0	296.0	296.0	3.3	3.3	-22.72	149.0	-62.4	161.5	155.0	6.53	24.720	
380.0	380.0	376.0	376.0	3.4	3.4	-22.72	149.0	-62.4	161.5	154.8	6.73	24.009	
400.0	400.0	396.0	396.0	3.4	3.4	-22.72	149.0	-62.4	161.5	154.8	6.78	23.825	
475.0	475.0	471.0	471.0	3.5	3.5	-22.72	149.0	-62.4	161.5	154.6	6.96	23.210	
500.0	500.0	496.0	496.0	3.5	3.5	-22.72	149.0	-62.4	161.5	154.5	7.02	23.002	
570.0	570.0	566.0	566.0	3.6	3.6	-22.72	149.0	-62.4	161.5	154.3	7.19	22.469	
600.0	600.0	596.0	596.0	3.6	3.6	-22.72	149.0	-62.4	161.5	154.3	7.26	22.240	
665.0	665.0	661.0	661.0	3.7	3.7	-22.72	149.0	-62.4	161.5	154.1	7.42	21.780	
700.0	700.0	696.0	696.0	3.8	3.8	-22.72	149.0	-62.4	161.5	154.0	7.50	21.533	
760.0	760.0	756.0	756.0	3.8	3.8	-22.72	149.0	-62.4	161.5	153.9	7.64	21.137	
800.0	800.0	796.0	796.0	3.9	3.9	-22.72	149.0	-62.4	161.5	153.8	7.74	20.875	
855.0	855.0	851.0	851.0	4.0	3.9	-22.72	149.0	-62.4	161.5	153.7	7.87	20.535	
900.0	900.0	896.0	896.0	4.0	4.0	-22.72	149.0	-62.4	161.5	153.6	7.97	20.260	
950.0	950.0	946.0	946.0	4.1	4.1	-22.72	149.0	-62.4	161.5	153.4	8.09	19.970	
1,000.0	1,000.0	996.0	996.0	4.1	4.1	-22.72	149.0	-62.4	161.5	153.3	8.21	19.684	
1,045.0	1,045.0	1,041.0	1,041.0	4.2	4.2	-22.72	149.0	-62.4	161.5	153.2	8.31	19.438	
1,100.0	1,100.0	1,096.0	1,096.0	4.2	4.2	-22.72	149.0	-62.4	161.5	153.1	8.44	19.143	
1,140.0	1,140.0	1,136.0	1,136.0	4.3	4.3	-22.72	149.0	-62.4	161.5	153.0	8.53	18.937	
1,200.0	1,200.0	1,196.0	1,196.0	4.4	4.4	-22.72	149.0	-62.4	161.5	152.9	8.67	18.633	
1,235.0	1,235.0	1,231.0	1,231.0	4.4	4.4	-22.72	149.0	-62.4	161.5	152.8	8.75	18.463	
1,300.0	1,300.0	1,296.0	1,296.0	4.5	4.5	-22.72	149.0	-62.4	161.5	152.6	8.90	18.153	
1,330.0	1,330.0	1,326.0	1,326.0	4.5	4.5	-22.72	149.0	-62.4	161.5	152.6	8.97	18.015	
1,400.0	1,400.0	1,396.0	1,396.0	4.6	4.6	-22.72	149.0	-62.4	161.5	152.4	9.13	17.699	
1,425.0	1,425.0	1,421.0	1,421.0	4.6	4.6	-22.72	149.0	-62.4	161.5	152.4	9.18	17.590	
1,500.0	1,500.0	1,496.0	1,496.0	4.7	4.7	-22.72	149.0	-62.4	161.5	152.2	9.35	17.268	
1,511.7	1,511.7	1,507.6	1,507.6	4.7	4.7	-79.39	149.0	-62.4	161.5	152.2	9.38	17.213 CC	
1,520.0	1,520.0	1,515.7	1,515.7	4.7	4.7	-79.39	149.0	-62.4	161.5	152.1	9.40	17.176	
1,600.0	1,600.0	1,594.5	1,594.5	4.9	4.9	-79.45	150.0	-61.2	161.7	152.1	9.56	16.919 ES	
1,615.0	1,615.0	1,609.3	1,609.2	4.9	4.9	-79.47	150.3	-60.8	161.7	152.1	9.60	16.849	
1,700.0	1,699.8	1,692.9	1,692.8	5.1	5.1	-79.56	153.1	-57.4	162.1	152.3	9.86	16.439	
1,710.0	1,709.8	1,702.8	1,702.6	5.1	5.1	-79.57	153.5	-56.8	162.2	152.3	9.89	16.394	
1,800.0	1,799.5	1,791.4	1,790.9	5.3	5.3	-79.71	158.4	-50.9	162.9	152.7	10.17	16.020	
1,805.0	1,804.4	1,796.3	1,795.8	5.4	5.4	-79.71	158.7	-50.5	163.0	152.8	10.18	16.001	
1,900.0	1,898.7	1,889.8	1,888.6	5.6	5.6	-79.89	165.7	-41.9	164.0	153.6	10.48	15.660	
1,995.0	1,992.5	1,983.3	1,981.0	5.9	5.9	-80.10	174.7	-30.9	165.4	154.6	10.77	15.362	
2,000.0	1,997.5	1,988.2	1,985.9	5.9	5.9	-80.11	175.2	-30.2	165.5	154.7	10.78	15.348	
2,090.0	2,085.8	2,076.9	2,073.0	6.3	6.2	-80.34	185.6	-17.5	167.1	156.0	11.07	15.101	
2,100.0	2,095.6	2,086.7	2,082.6	6.3	6.3	-80.36	186.8	-16.0	167.3	156.2	11.10	15.076	
2,185.0	2,178.5	2,170.4	2,164.3	6.6	6.6	-80.60	198.4	-1.9	169.1	157.7	11.37	14.868	
2,199.8	2,192.9	2,185.0	2,178.4	6.6	6.6	-80.64	200.5	0.7	169.4	158.0	11.42	14.835	
2,280.0	2,270.7	2,264.9	2,256.0	6.9	6.9	-80.80	212.7	15.7	171.3	159.6	11.69	14.654	
2,300.0	2,290.1	2,284.9	2,275.4	7.0	6.9	-80.83	215.8	19.5	171.8	160.1	11.76	14.609	
2,375.0	2,362.9	2,359.9	2,348.2	7.2	7.2	-80.96	227.2	33.5	173.6	161.6	12.03	14.439	
2,400.0	2,387.1	2,384.9	2,372.4	7.3	7.3	-81.00	231.1	38.2	174.2	162.1	12.11	14.383	
2,470.0	2,455.0	2,454.8	2,440.3	7.5	7.5	-81.11	241.8	51.3	175.9	163.6	12.37	14.224	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1														Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS						Rule Assigned:		Offset Well Error:		3.0 usft			
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
2,500.0	2,484.1	2,484.8	2,469.4	7.6	7.6	-81.16	246.3	56.9	176.7	164.2	12.48	14.158			
2,565.0	2,547.2	2,549.8	2,532.5	7.9	7.8	-81.26	256.3	69.1	178.2	165.5	12.72	14.012			
2,600.0	2,581.2	2,584.8	2,566.4	8.0	8.0	-81.32	261.6	75.7	179.1	166.2	12.85	13.935			
2,660.0	2,639.4	2,644.8	2,624.6	8.2	8.2	-81.41	270.8	86.9	180.6	167.5	13.08	13.802			
2,700.0	2,678.2	2,684.8	2,663.4	8.4	8.3	-81.47	276.9	94.4	181.5	168.3	13.23	13.716			
2,755.0	2,731.6	2,739.8	2,716.8	8.6	8.5	-81.55	285.3	104.7	182.9	169.4	13.45	13.597			
2,800.0	2,775.2	2,784.7	2,760.4	8.7	8.7	-81.62	292.2	113.2	184.0	170.3	13.62	13.501			
2,850.0	2,823.8	2,834.7	2,808.9	8.9	8.9	-81.69	299.9	122.5	185.2	171.3	13.82	13.396			
2,900.0	2,872.3	2,884.7	2,857.4	9.1	9.1	-81.77	307.5	131.9	186.4	172.4	14.02	13.292			
2,945.0	2,915.9	2,929.7	2,901.1	9.3	9.3	-81.83	314.4	140.3	187.5	173.3	14.20	13.200			
3,000.0	2,969.3	2,984.7	2,954.4	9.5	9.5	-81.91	322.8	150.6	188.8	174.4	14.43	13.089			
3,040.0	3,008.1	3,024.7	2,993.2	9.7	9.7	-81.96	328.9	158.1	189.8	175.2	14.59	13.009			
3,100.0	3,066.3	3,084.6	3,051.4	10.0	9.9	-82.05	338.1	169.4	191.3	176.4	14.83	12.892			
3,135.0	3,100.3	3,119.6	3,085.4	10.1	10.1	-82.09	343.4	175.9	192.1	177.1	14.98	12.824			
3,200.0	3,163.4	3,184.6	3,148.4	10.4	10.3	-82.18	353.4	188.1	193.7	178.4	15.25	12.701			
3,230.0	3,192.5	3,214.6	3,177.5	10.5	10.5	-82.22	358.0	193.7	194.4	179.0	15.37	12.645			
3,300.0	3,260.4	3,284.6	3,245.4	10.8	10.7	-82.31	368.7	206.9	196.1	180.5	15.67	12.517			
3,325.0	3,284.7	3,309.6	3,269.7	10.9	10.9	-82.34	372.5	211.5	196.7	181.0	15.77	12.472			
3,400.0	3,357.4	3,384.6	3,342.4	11.2	11.2	-82.44	383.9	225.6	198.6	182.5	16.09	12.339			
3,420.0	3,376.8	3,404.5	3,361.8	11.3	11.3	-82.47	387.0	229.4	199.0	182.9	16.18	12.304			
3,500.0	3,454.5	3,484.5	3,439.4	11.7	11.6	-82.57	399.2	244.3	201.0	184.5	16.52	12.167			
3,515.0	3,469.0	3,499.5	3,454.0	11.7	11.7	-82.58	401.5	247.2	201.4	184.8	16.58	12.142			
3,600.0	3,551.5	3,584.5	3,536.4	12.1	12.0	-82.69	414.5	263.1	203.4	186.5	16.95	12.002			
3,610.0	3,561.2	3,594.5	3,546.1	12.2	12.1	-82.70	416.0	265.0	203.7	186.7	16.99	11.985			
3,700.0	3,648.5	3,684.5	3,633.4	12.5	12.5	-82.81	429.8	281.8	205.9	188.5	17.38	11.842			
3,705.0	3,653.4	3,689.5	3,638.3	12.6	12.5	-82.81	430.6	282.8	206.0	188.6	17.41	11.834			
3,800.0	3,745.6	3,784.4	3,730.4	13.0	12.9	-82.92	445.1	300.6	208.3	190.5	17.82	11.689			
3,895.0	3,837.7	3,879.4	3,822.6	13.4	13.4	-83.03	459.6	318.4	210.6	192.4	18.24	11.548			
3,900.0	3,842.6	3,884.4	3,827.4	13.4	13.4	-83.04	460.4	319.3	210.8	192.5	18.26	11.541			
3,990.0	3,929.9	3,974.4	3,914.7	13.9	13.8	-83.14	474.1	336.2	212.9	194.3	18.66	11.412			
4,000.0	3,939.6	3,984.4	3,924.4	13.9	13.8	-83.15	475.7	338.1	213.2	194.5	18.70	11.398			
4,019.1	3,958.1	4,003.5	3,942.9	14.0	13.9	-83.17	478.6	341.6	213.7	194.9	18.78	11.379			
4,085.0	4,022.3	4,069.3	4,006.9	14.3	14.2	-83.07	488.7	354.0	215.4	196.3	19.07	11.294			
4,100.0	4,036.9	4,084.3	4,021.4	14.3	14.3	-83.00	491.0	356.8	215.8	196.6	19.14	11.274			
4,180.0	4,115.3	4,164.2	4,098.9	14.7	14.7	-82.25	503.2	371.8	218.2	198.6	19.56	11.154			
4,200.0	4,134.9	4,184.2	4,118.3	14.8	14.7	-81.98	506.2	375.5	218.8	199.1	19.67	11.122			
4,275.0	4,208.9	4,259.0	4,190.8	15.2	15.1	-80.66	517.7	389.5	221.5	201.4	20.13	11.002			
4,300.0	4,233.6	4,283.8	4,215.0	15.3	15.2	-80.12	521.5	394.2	222.5	202.2	20.30	10.959			
4,370.0	4,303.0	4,353.4	4,282.5	15.6	15.5	-78.36	532.1	407.2	225.6	204.8	20.82	10.836			
4,400.0	4,332.8	4,383.2	4,311.4	15.7	15.7	-77.50	536.7	412.8	227.2	206.1	21.07	10.780			
4,465.0	4,397.4	4,447.5	4,373.8	16.0	16.0	-75.43	546.5	424.9	230.9	209.3	21.67	10.658			
4,500.0	4,432.3	4,482.0	4,407.3	16.1	16.1	-74.22	551.8	431.3	233.3	211.2	22.03	10.590			
4,560.0	4,492.2	4,541.2	4,464.7	16.3	16.4	-71.97	560.8	442.4	237.8	215.1	22.68	10.486			
4,600.0	4,532.1	4,581.9	4,504.3	16.5	16.6	-70.40	566.8	449.8	241.2	218.0	23.16	10.414			
4,655.0	4,587.1	4,638.1	4,559.2	16.7	16.8	-68.30	574.6	459.3	245.9	222.1	23.82	10.324			
4,700.0	4,632.1	4,684.3	4,604.4	16.8	17.1	-66.63	580.4	466.4	250.0	225.6	24.39	10.253			
4,718.9	4,651.0	4,703.7	4,623.4	16.8	17.1	-9.29	582.7	469.3	251.8	227.2	24.60	10.233			
4,750.0	4,682.1	4,735.7	4,655.0	16.8	17.3	-8.16	586.3	473.7	254.7	229.7	24.96	10.204			
4,800.0	4,732.1	4,787.5	4,706.0	16.8	17.5	-6.53	591.8	480.3	259.1	233.6	25.49	10.163			
4,845.0	4,777.1	4,834.4	4,752.4	16.9	17.7	-5.25	596.1	485.7	262.8	236.8	25.93	10.132			
4,900.0	4,832.1	4,892.0	4,809.5	16.9	18.0	-3.91	600.9	491.5	266.9	240.4	26.42	10.100			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,940.0	4,872.1	4,934.0	4,851.3	16.9	18.2	-3.09	603.9	495.2	269.5	242.8	26.74	10.080		
5,000.0	4,932.1	4,997.3	4,914.3	16.9	18.4	-2.07	607.7	499.9	272.9	245.8	27.15	10.051		
5,035.0	4,967.1	5,034.4	4,951.2	17.0	18.6	-1.59	609.5	502.1	274.5	247.2	27.35	10.037		
5,100.0	5,032.1	5,103.4	5,020.1	17.0	18.8	-0.93	612.0	505.2	276.9	249.2	27.67	10.006		
5,130.0	5,062.1	5,135.3	5,052.0	17.0	18.9	-0.71	612.9	506.2	277.7	249.9	27.78	9.994		
5,200.0	5,132.1	5,209.8	5,126.4	17.0	19.2	-0.44	613.9	507.5	278.7	250.7	27.97	9.962		
5,225.0	5,157.1	5,236.4	5,153.1	17.1	19.2	-0.42	614.0	507.7	278.7	250.7	27.99	9.959		
5,300.0	5,232.1	5,311.4	5,228.1	17.1	19.2	-0.42	614.0	507.7	278.7	250.7	28.07	9.929		
5,320.0	5,252.1	5,331.4	5,248.1	17.1	19.2	-0.42	614.0	507.7	278.7	250.6	28.10	9.920		
5,400.0	5,332.1	5,411.4	5,328.1	17.1	19.3	-0.42	614.0	507.7	278.7	250.5	28.21	9.882		
5,415.0	5,347.1	5,426.4	5,343.1	17.2	19.3	-0.42	614.0	507.7	278.7	250.5	28.23	9.875		
5,500.0	5,432.1	5,511.4	5,428.1	17.2	19.3	-0.42	614.0	507.7	278.7	250.4	28.34	9.836		
5,510.0	5,442.1	5,521.4	5,438.1	17.2	19.3	-0.42	614.0	507.7	278.7	250.4	28.35	9.831		
5,600.0	5,532.1	5,611.4	5,528.1	17.2	19.4	-0.42	614.0	507.7	278.7	250.3	28.47	9.790		
5,605.0	5,537.1	5,616.4	5,533.1	17.3	19.4	-0.42	614.0	507.7	278.7	250.3	28.48	9.788		
5,700.0	5,632.1	5,711.4	5,628.1	17.3	19.4	-0.42	614.0	507.7	278.7	250.1	28.60	9.744		
5,795.0	5,727.1	5,806.4	5,723.1	17.4	19.4	-0.42	614.0	507.7	278.7	250.0	28.73	9.701		
5,800.0	5,732.1	5,811.4	5,728.1	17.4	19.4	-0.42	614.0	507.7	278.7	250.0	28.74	9.699		
5,890.0	5,822.1	5,901.4	5,818.1	17.4	19.5	-0.42	614.0	507.7	278.7	249.9	28.86	9.658		
5,900.0	5,832.1	5,911.4	5,828.1	17.4	19.5	-0.42	614.0	507.7	278.7	249.9	28.87	9.654		
5,985.0	5,917.1	5,996.4	5,913.1	17.5	19.5	-0.42	614.0	507.7	278.7	249.7	28.99	9.616		
6,000.0	5,932.1	6,011.4	5,928.1	17.5	19.5	-0.42	614.0	507.7	278.7	249.7	29.01	9.609		
6,080.0	6,012.1	6,091.4	6,008.1	17.5	19.6	-0.42	614.0	507.7	278.7	249.6	29.11	9.574		
6,100.0	6,032.1	6,111.4	6,028.1	17.5	19.6	-0.42	614.0	507.7	278.7	249.6	29.14	9.565		
6,175.0	6,107.1	6,186.4	6,103.1	17.6	19.6	-0.42	614.0	507.7	278.7	249.5	29.24	9.532		
6,200.0	6,132.1	6,211.4	6,128.1	17.6	19.6	-0.42	614.0	507.7	278.7	249.5	29.28	9.521		
6,270.0	6,202.1	6,281.4	6,198.1	17.6	19.7	-0.42	614.0	507.7	278.7	249.4	29.37	9.490		
6,300.0	6,232.1	6,311.4	6,228.1	17.6	19.7	-0.42	614.0	507.7	278.7	249.3	29.41	9.477		
6,365.0	6,297.1	6,376.4	6,293.1	17.7	19.7	-0.42	614.0	507.7	278.7	249.2	29.50	9.449		
6,400.0	6,332.1	6,411.4	6,328.1	17.7	19.7	-0.42	614.0	507.7	278.7	249.2	29.55	9.434		
6,460.0	6,392.1	6,471.4	6,388.1	17.7	19.8	-0.42	614.0	507.7	278.7	249.1	29.63	9.408		
6,500.0	6,432.1	6,511.4	6,428.1	17.7	19.8	-0.42	614.0	507.7	278.7	249.1	29.68	9.390		
6,555.0	6,487.1	6,566.4	6,483.1	17.8	19.8	-0.42	614.0	507.7	278.7	249.0	29.76	9.367		
6,600.0	6,532.1	6,611.4	6,528.1	17.8	19.8	-0.42	614.0	507.7	278.7	248.9	29.82	9.348		
6,650.0	6,582.1	6,661.4	6,578.1	17.8	19.9	-0.42	614.0	507.7	278.7	248.8	29.89	9.326		
6,700.0	6,632.1	6,711.4	6,628.1	17.8	19.9	-0.42	614.0	507.7	278.7	248.8	29.96	9.305		
6,745.0	6,677.1	6,756.4	6,673.1	17.9	19.9	-0.42	614.0	507.7	278.7	248.7	30.02	9.286		
6,800.0	6,732.1	6,811.4	6,728.1	17.9	19.9	-0.42	614.0	507.7	278.7	248.6	30.09	9.263		
6,840.0	6,772.1	6,851.4	6,768.1	17.9	19.9	-0.42	614.0	507.7	278.7	248.6	30.15	9.246		
6,900.0	6,832.1	6,911.4	6,828.1	17.9	20.0	-0.42	614.0	507.7	278.7	248.5	30.23	9.221		
6,935.0	6,867.1	6,946.4	6,863.1	18.0	20.0	-0.42	614.0	507.7	278.7	248.5	30.28	9.206		
7,000.0	6,932.1	7,011.4	6,928.1	18.0	20.0	-0.42	614.0	507.7	278.7	248.4	30.37	9.179		
7,030.0	6,962.1	7,041.4	6,958.1	18.0	20.0	-0.42	614.0	507.7	278.7	248.3	30.41	9.167		
7,100.0	7,032.1	7,111.4	7,028.1	18.1	20.1	-0.42	614.0	507.7	278.7	248.2	30.50	9.138		
7,125.0	7,057.1	7,136.4	7,053.1	18.1	20.1	-0.42	614.0	507.7	278.7	248.2	30.54	9.128		
7,200.0	7,132.1	7,211.4	7,128.1	18.1	20.1	-0.42	614.0	507.7	278.7	248.1	30.64	9.097		
7,220.0	7,152.1	7,231.4	7,148.1	18.1	20.1	-0.42	614.0	507.7	278.7	248.1	30.67	9.089		
7,300.0	7,232.1	7,311.4	7,228.1	18.2	20.2	-0.42	614.0	507.7	278.7	248.0	30.78	9.056		
7,315.0	7,247.1	7,326.4	7,243.1	18.2	20.2	-0.42	614.0	507.7	278.7	247.9	30.80	9.050		
7,400.0	7,332.1	7,411.4	7,328.1	18.2	20.2	-0.42	614.0	507.7	278.7	247.8	30.92	9.016		
7,410.0	7,342.1	7,421.4	7,338.1	18.2	20.2	-0.42	614.0	507.7	278.7	247.8	30.93	9.012		

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	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	7,432.1	7,511.4	7,428.1	18.3	20.3	-0.42	614.0	507.7	278.7	247.7	31.05	8.976
7,505.0	7,437.1	7,516.4	7,433.1	18.3	20.3	-0.42	614.0	507.7	278.7	247.7	31.06	8.974
7,600.0	7,532.1	7,611.4	7,528.1	18.3	20.3	-0.42	614.0	507.7	278.7	247.5	31.19	8.936
7,695.0	7,627.1	7,706.4	7,623.1	18.4	20.4	-0.42	614.0	507.7	278.7	247.4	31.32	8.898
7,700.0	7,632.1	7,711.4	7,628.1	18.4	20.4	-0.42	614.0	507.7	278.7	247.4	31.33	8.896
7,790.0	7,722.1	7,801.4	7,718.1	18.4	20.4	-0.42	614.0	507.7	278.7	247.3	31.46	8.861
7,800.0	7,732.1	7,811.4	7,728.1	18.4	20.4	-0.42	614.0	507.7	278.7	247.3	31.47	8.857
7,885.0	7,817.1	7,896.4	7,813.1	18.5	20.5	-0.42	614.0	507.7	278.7	247.1	31.59	8.824
7,900.0	7,832.1	7,911.4	7,828.1	18.5	20.5	-0.42	614.0	507.7	278.7	247.1	31.61	8.818
7,980.0	7,912.1	7,991.4	7,908.1	18.6	20.5	-0.42	614.0	507.7	278.7	247.0	31.72	8.787
8,000.0	7,932.1	8,011.4	7,928.1	18.6	20.5	-0.42	614.0	507.7	278.7	247.0	31.75	8.779
8,075.0	8,007.1	8,086.4	8,003.1	18.6	20.6	-0.42	614.0	507.7	278.7	246.9	31.85	8.750
8,100.0	8,032.1	8,111.4	8,028.1	18.6	20.6	-0.42	614.0	507.7	278.7	246.8	31.89	8.741
8,170.0	8,102.1	8,181.4	8,098.1	18.7	20.6	-0.42	614.0	507.7	278.7	246.7	31.99	8.714
8,200.0	8,132.1	8,211.4	8,128.1	18.7	20.6	-0.42	614.0	507.7	278.7	246.7	32.03	8.703
8,265.0	8,197.1	8,276.4	8,193.1	18.7	20.7	-0.42	614.0	507.7	278.7	246.6	32.12	8.678
8,300.0	8,232.1	8,311.4	8,228.1	18.7	20.7	-0.42	614.0	507.7	278.7	246.6	32.17	8.665
8,360.0	8,292.1	8,371.4	8,288.1	18.8	20.7	-0.42	614.0	507.7	278.7	246.5	32.25	8.642
8,400.0	8,332.1	8,411.4	8,328.1	18.8	20.7	-0.42	614.0	507.7	278.7	246.4	32.31	8.627
8,455.0	8,387.1	8,466.4	8,383.1	18.8	20.8	-0.42	614.0	507.7	278.7	246.4	32.37	8.610
8,485.9	8,418.0	8,497.4	8,414.0	18.8	20.8	-0.42	614.0	507.7	278.7	246.3	32.41	8.600
8,500.0	8,432.1	8,511.4	8,428.1	18.8	20.8	-175.27	614.0	507.7	278.9	246.5	32.42	8.603
8,550.0	8,482.0	8,561.3	8,478.0	18.9	20.8	-175.30	614.0	507.7	282.3	249.8	32.52	8.681
8,600.0	8,531.4	8,610.7	8,527.4	18.9	20.9	-175.36	614.0	507.7	290.0	257.4	32.61	8.894
8,645.0	8,575.1	8,654.4	8,571.1	18.9	20.9	-175.44	614.0	507.7	300.6	267.9	32.68	9.198
8,650.0	8,579.9	8,659.2	8,575.9	18.9	20.9	-175.45	614.0	507.7	302.0	269.3	32.69	9.238
8,700.0	8,627.2	8,706.5	8,623.2	18.9	20.9	-175.55	614.0	507.7	318.1	285.4	32.76	9.711
8,740.0	8,663.9	8,743.2	8,659.9	18.9	20.9	-175.63	614.0	507.7	334.0	301.2	32.82	10.177
8,750.0	8,672.9	8,752.2	8,668.9	19.0	20.9	-175.65	614.0	507.7	338.4	305.5	32.83	10.306
8,800.0	8,716.6	8,795.9	8,712.6	19.0	20.9	-175.74	614.0	507.7	362.5	329.6	32.90	11.019
8,835.0	8,745.9	8,825.2	8,741.9	19.0	21.0	-175.79	614.0	507.7	381.6	348.6	32.94	11.584
8,850.0	8,758.1	8,837.4	8,754.1	19.0	21.0	-175.81	614.0	507.7	390.3	357.3	32.96	11.842
8,900.0	8,797.0	8,876.3	8,793.0	19.1	21.0	-175.84	614.0	507.7	421.6	388.6	33.02	12.770
8,930.0	8,819.0	8,898.3	8,815.0	19.1	21.0	-175.83	614.0	507.7	442.0	409.0	33.05	13.373
8,950.0	8,833.0	8,912.3	8,829.0	19.1	21.0	-175.82	614.0	507.7	456.3	423.2	33.08	13.793
9,000.0	8,865.9	8,945.2	8,861.9	19.1	21.0	-175.73	614.0	507.7	493.9	460.7	33.13	14.906
9,025.0	8,881.0	8,960.4	8,877.0	19.2	21.0	-175.65	614.0	507.7	513.7	480.6	33.16	15.493
9,050.0	8,895.3	8,974.6	8,891.3	19.2	21.0	-175.55	614.0	507.7	534.2	501.0	33.18	16.099
9,100.0	8,921.1	9,000.4	8,917.1	19.2	21.1	-175.24	614.0	507.7	577.0	543.8	33.23	17.364
9,120.0	8,930.4	9,009.7	8,926.4	19.3	21.1	-175.06	614.0	507.7	594.7	561.5	33.24	17.889
9,150.0	8,943.1	9,022.4	8,939.1	19.3	21.1	-174.72	614.0	507.7	621.8	588.6	33.27	18.692
9,200.0	8,961.1	9,040.4	8,957.1	19.3	21.1	-173.84	614.0	507.7	668.5	635.2	33.30	20.075
9,215.0	8,965.7	9,045.0	8,961.7	19.4	21.1	-173.46	614.0	507.7	682.7	649.4	33.31	20.499
9,250.0	8,975.0	9,054.3	8,971.0	19.4	21.1	-172.22	614.0	507.7	716.5	683.1	33.32	21.502
9,300.0	8,984.6	9,063.9	8,980.6	19.5	21.1	-168.63	614.0	507.7	765.5	732.1	33.33	22.966
9,310.0	8,986.0	9,065.3	8,982.0	19.5	21.1	-167.35	614.0	507.7	775.4	742.0	33.33	23.262
9,350.0	8,989.9	9,069.2	8,985.9	19.5	21.1	-155.77	614.0	507.7	815.2	781.8	33.33	24.455
9,385.7	8,991.0	10,495.2	9,806.1	19.6	22.3	-179.03	-234.8	575.0	819.2	781.8	37.44	21.880
9,400.0	8,991.0	10,509.6	9,806.1	19.6	22.3	-179.12	-249.1	574.9	819.2	781.7	37.51	21.839
9,405.0	8,991.0	10,514.6	9,806.1	19.6	22.4	-179.15	-254.1	574.9	819.2	781.7	37.54	21.824
9,500.0	8,991.1	10,609.3	9,806.2	19.8	22.5	-179.65	-348.8	574.1	819.1	781.1	38.03	21.536

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
9,595.0	8,991.1	10,704.2	9,806.2	19.9	22.7	-179.93	-443.8	573.3	819.1	780.5	38.57	21.237		
9,600.0	8,991.1	10,709.2	9,806.2	19.9	22.7	-179.93	-448.8	573.3	819.1	780.5	38.60	21.221		
9,666.8	8,991.1	10,776.0	9,806.2	20.1	22.8	-179.99	-515.6	572.7	819.1	780.1	38.99	21.006		
9,690.0	8,991.1	10,799.2	9,806.2	20.1	22.8	-179.99	-538.7	572.5	819.1	780.0	39.13	20.932		
9,700.0	8,991.1	10,809.2	9,806.2	20.1	22.9	-179.99	-548.7	572.4	819.1	779.9	39.19	20.899		
9,785.0	8,991.2	10,894.2	9,806.3	20.3	23.0	-179.99	-633.7	571.7	819.1	779.3	39.74	20.609		
9,800.0	8,991.2	10,909.2	9,806.3	20.3	23.1	-179.99	-648.7	571.6	819.1	779.2	39.84	20.557		
9,880.0	8,991.2	10,989.2	9,806.3	20.5	23.2	-179.99	-728.7	571.0	819.1	778.7	40.40	20.272		
9,900.0	8,991.2	11,009.2	9,806.3	20.6	23.3	-179.99	-748.7	570.8	819.1	778.5	40.55	20.201		
9,975.0	8,991.3	11,084.2	9,806.3	20.7	23.5	-179.99	-823.7	570.2	819.1	778.0	41.11	19.926		
10,000.0	8,991.3	11,109.2	9,806.3	20.8	23.5	-179.99	-848.7	570.0	819.1	777.8	41.29	19.834		
10,070.0	8,991.3	11,179.2	9,806.4	21.0	23.7	-179.99	-918.7	569.4	819.1	777.2	41.85	19.571		
10,100.0	8,991.3	11,209.2	9,806.4	21.1	23.8	-179.99	-948.7	569.1	819.1	777.0	42.09	19.460		
10,165.0	8,991.4	11,274.2	9,806.4	21.3	24.0	-179.99	-1,013.7	568.6	819.0	776.4	42.63	19.211		
10,200.0	8,991.4	11,309.2	9,806.4	21.4	24.1	-179.99	-1,048.7	568.3	819.0	776.1	42.93	19.079		
10,260.0	8,991.4	11,369.2	9,806.5	21.5	24.3	-179.99	-1,108.7	567.8	819.0	775.6	43.45	18.848		
10,300.0	8,991.4	11,409.2	9,806.5	21.7	24.4	-179.99	-1,148.7	567.5	819.0	775.2	43.81	18.696		
10,355.0	8,991.5	11,464.2	9,806.5	21.8	24.6	-179.99	-1,203.7	567.0	819.0	774.7	44.31	18.484		
10,400.0	8,991.5	11,509.2	9,806.5	22.0	24.7	-179.99	-1,248.7	566.7	819.0	774.3	44.72	18.313		
10,450.0	8,991.5	11,559.2	9,806.5	22.2	24.9	-179.99	-1,298.7	566.3	819.0	773.8	45.20	18.120		
10,500.0	8,991.5	11,609.2	9,806.5	22.3	25.0	-179.99	-1,348.7	565.8	819.0	773.3	45.68	17.931		
10,545.0	8,991.5	11,654.2	9,806.6	22.5	25.2	-179.99	-1,393.7	565.5	819.0	772.9	46.12	17.759		
10,600.0	8,991.6	11,709.2	9,806.6	22.7	25.4	-179.99	-1,448.7	565.0	819.0	772.4	46.66	17.552		
10,640.0	8,991.6	11,749.2	9,806.6	22.9	25.5	-179.99	-1,488.7	564.7	819.0	771.9	47.07	17.400		
10,700.0	8,991.6	11,809.2	9,806.6	23.1	25.8	-179.99	-1,548.7	564.2	819.0	771.3	47.68	17.177		
10,735.0	8,991.6	11,844.2	9,806.6	23.3	25.9	-179.99	-1,583.7	563.9	819.0	771.0	48.05	17.046		
10,800.0	8,991.7	11,909.2	9,806.7	23.5	26.2	-179.99	-1,648.7	563.4	819.0	770.3	48.73	16.808		
10,830.0	8,991.7	11,939.2	9,806.7	23.7	26.3	-179.99	-1,678.7	563.1	819.0	770.0	49.05	16.697		
10,900.0	8,991.7	12,009.2	9,806.7	24.0	26.6	-179.99	-1,748.7	562.5	819.0	769.2	49.80	16.445		
10,925.0	8,991.7	12,034.2	9,806.7	24.1	26.7	-179.99	-1,773.7	562.3	819.0	768.9	50.08	16.355		
11,000.0	8,991.8	12,109.2	9,806.7	24.4	27.0	-179.99	-1,848.7	561.7	819.0	768.1	50.90	16.089		
11,020.0	8,991.8	12,129.2	9,806.7	24.5	27.1	-179.99	-1,868.7	561.5	819.0	767.9	51.13	16.019		
11,100.0	8,991.8	12,209.2	9,806.8	24.9	27.5	-179.99	-1,948.7	560.9	819.0	767.0	52.03	15.741		
11,115.0	8,991.8	12,224.2	9,806.8	24.9	27.5	-179.99	-1,963.7	560.8	819.0	766.8	52.20	15.690		
11,200.0	8,991.8	12,309.2	9,806.8	25.4	27.9	-179.99	-2,048.7	560.1	819.0	765.8	53.17	15.402		
11,210.0	8,991.9	12,319.2	9,806.8	25.4	28.0	-179.99	-2,058.7	560.0	819.0	765.7	53.29	15.368		
11,300.0	8,991.9	12,409.2	9,806.9	25.8	28.4	-179.99	-2,148.7	559.2	819.0	764.6	54.34	15.070		
11,305.0	8,991.9	12,414.2	9,806.9	25.9	28.4	-179.99	-2,153.7	559.2	819.0	764.6	54.40	15.054		
11,400.0	8,991.9	12,509.2	9,806.9	26.4	28.9	-179.99	-2,248.7	558.4	819.0	763.4	55.53	14.748		
11,495.0	8,992.0	12,604.2	9,806.9	26.9	29.4	-179.99	-2,343.7	557.6	819.0	762.3	56.68	14.449		
11,500.0	8,992.0	12,609.2	9,806.9	26.9	29.4	-179.99	-2,348.7	557.6	819.0	762.2	56.74	14.434		
11,590.0	8,992.0	12,699.2	9,807.0	27.4	29.9	-179.99	-2,438.7	556.8	818.9	761.1	57.84	14.159		
11,600.0	8,992.0	12,709.2	9,807.0	27.4	29.9	-179.99	-2,448.7	556.7	818.9	761.0	57.96	14.129		
11,685.0	8,992.1	12,794.2	9,807.0	27.9	30.4	-179.99	-2,533.7	556.0	818.9	759.9	59.02	13.877		
11,700.0	8,992.1	12,809.2	9,807.0	28.0	30.4	-179.99	-2,548.7	555.9	818.9	759.7	59.20	13.833		
11,780.0	8,992.1	12,889.2	9,807.0	28.4	30.9	-179.99	-2,628.7	555.3	818.9	758.7	60.21	13.602		
11,800.0	8,992.1	12,909.2	9,807.1	28.5	31.0	-179.99	-2,648.7	555.1	818.9	758.5	60.46	13.545		
11,875.0	8,992.2	12,984.2	9,807.1	29.0	31.4	-179.99	-2,723.7	554.5	818.9	757.5	61.41	13.335		
11,900.0	8,992.2	13,009.2	9,807.1	29.1	31.5	-179.99	-2,748.7	554.3	818.9	757.2	61.73	13.266		
11,970.0	8,992.2	13,079.2	9,807.1	29.5	31.9	-179.99	-2,818.7	553.7	818.9	756.3	62.63	13.076		
12,000.0	8,992.2	13,109.2	9,807.1	29.7	32.1	-179.99	-2,848.7	553.4	818.9	755.9	63.01	12.996		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program:		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS							Rule Assigned:				Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre			Distance			Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Separation Factor			
12,065.0	8,992.2	13,174.2	9,807.2	30.1	32.5	-179.99	-2,913.7	552.9	818.9	755.1	63.85	12.825		
12,100.0	8,992.3	13,209.2	9,807.2	30.3	32.7	-179.99	-2,948.7	552.6	818.9	754.6	64.31	12.734		
12,160.0	8,992.3	13,269.2	9,807.2	30.6	33.0	-179.99	-3,008.7	552.1	818.9	753.8	65.09	12.580		
12,200.0	8,992.3	13,309.2	9,807.2	30.9	33.3	-179.99	-3,048.7	551.8	818.9	753.3	65.62	12.480		
12,255.0	8,992.3	13,364.2	9,807.2	31.2	33.6	-179.99	-3,103.7	551.3	818.9	752.6	66.34	12.343		
12,300.0	8,992.4	13,409.2	9,807.3	31.5	33.8	-179.99	-3,148.7	551.0	818.9	752.0	66.94	12.234		
12,350.0	8,992.4	13,459.2	9,807.3	31.8	34.1	-179.99	-3,198.7	550.6	818.9	751.3	67.60	12.113		
12,400.0	8,992.4	13,509.2	9,807.3	32.1	34.4	-179.99	-3,248.7	550.1	818.9	750.6	68.27	11.995		
12,445.0	8,992.4	13,554.2	9,807.3	32.4	34.7	-179.99	-3,293.7	549.8	818.9	750.0	68.87	11.890		
12,500.0	8,992.5	13,609.2	9,807.3	32.7	35.0	-179.99	-3,348.7	549.3	818.9	749.3	69.61	11.764		
12,540.0	8,992.5	13,649.2	9,807.3	33.0	35.3	-179.99	-3,388.7	549.0	818.9	748.7	70.15	11.674		
12,600.0	8,992.5	13,709.2	9,807.4	33.3	35.7	-179.99	-3,448.6	548.5	818.9	747.9	70.96	11.540		
12,635.0	8,992.5	13,744.2	9,807.4	33.6	35.9	-179.99	-3,483.6	548.2	818.9	747.4	71.43	11.464		
12,700.0	8,992.5	13,809.2	9,807.4	34.0	36.3	-179.99	-3,548.6	547.7	818.9	746.5	72.32	11.324		
12,730.0	8,992.6	13,839.2	9,807.4	34.2	36.5	-179.99	-3,578.6	547.4	818.9	746.1	72.73	11.260		
12,800.0	8,992.6	13,909.2	9,807.4	34.6	36.9	-179.99	-3,648.6	546.8	818.9	745.2	73.68	11.113		
12,825.0	8,992.6	13,934.2	9,807.5	34.8	37.1	-179.99	-3,673.6	546.6	818.9	744.8	74.03	11.062		
12,900.0	8,992.6	14,009.2	9,807.5	35.3	37.5	-179.99	-3,748.6	546.0	818.8	743.8	75.06	10.910		
12,920.0	8,992.6	14,029.2	9,807.5	35.4	37.7	-179.99	-3,768.6	545.8	818.8	743.5	75.33	10.870		
13,000.0	8,992.7	14,109.2	9,807.5	35.9	38.2	-179.99	-3,848.6	545.2	818.8	742.4	76.44	10.712		
13,015.0	8,992.7	14,124.2	9,807.5	36.0	38.3	-179.99	-3,863.6	545.1	818.8	742.2	76.65	10.683		
13,100.0	8,992.7	14,209.2	9,807.6	36.6	38.8	-179.99	-3,948.6	544.4	818.8	741.0	77.83	10.521		
13,110.0	8,992.7	14,219.2	9,807.6	36.6	38.9	-179.99	-3,958.6	544.3	818.8	740.9	77.97	10.502		
13,200.0	8,992.8	14,309.2	9,807.6	37.2	39.5	-179.99	-4,048.6	543.5	818.8	739.6	79.22	10.335		
13,205.0	8,992.8	14,314.2	9,807.6	37.3	39.5	-179.99	-4,053.6	543.5	818.8	739.5	79.29	10.326		
13,300.0	8,992.8	14,409.2	9,807.6	37.9	40.1	-179.99	-4,148.6	542.7	818.8	738.2	80.63	10.156		
13,395.0	8,992.9	14,504.2	9,807.7	38.5	40.7	-179.99	-4,243.6	541.9	818.8	736.8	81.97	9.990		
13,400.0	8,992.9	14,509.2	9,807.7	38.6	40.8	-179.99	-4,248.6	541.9	818.8	736.8	82.04	9.981		
13,490.0	8,992.9	14,599.2	9,807.7	39.2	41.4	-179.99	-4,338.6	541.1	818.8	735.5	83.31	9.829		
13,500.0	8,992.9	14,609.2	9,807.7	39.2	41.4	-179.99	-4,348.6	541.0	818.8	735.4	83.45	9.812		
13,585.0	8,993.0	14,694.2	9,807.8	39.8	42.0	-179.99	-4,433.6	540.3	818.8	734.1	84.66	9.672		
13,600.0	8,993.0	14,709.2	9,807.8	39.9	42.1	-179.99	-4,448.6	540.2	818.8	733.9	84.87	9.648		
13,680.0	8,993.0	14,789.2	9,807.8	40.5	42.6	-179.99	-4,528.6	539.6	818.8	732.8	86.01	9.520		
13,700.0	8,993.0	14,809.2	9,807.8	40.6	42.8	-179.99	-4,548.6	539.4	818.8	732.5	86.29	9.488		
13,775.0	8,993.0	14,884.2	9,807.8	41.1	43.3	-179.99	-4,623.6	538.8	818.8	731.4	87.37	9.372		
13,800.0	8,993.1	14,909.2	9,807.8	41.3	43.4	-179.99	-4,648.6	538.6	818.8	731.1	87.72	9.334		
13,870.0	8,993.1	14,979.2	9,807.9	41.8	43.9	-179.99	-4,718.6	538.0	818.8	730.0	88.73	9.228		
13,900.0	8,993.1	15,009.2	9,807.9	42.0	44.1	-179.99	-4,748.6	537.7	818.8	729.6	89.16	9.183		
13,965.0	8,993.1	15,074.2	9,807.9	42.4	44.6	-179.99	-4,813.6	537.2	818.8	728.7	90.09	9.088		
14,000.0	8,993.2	15,109.2	9,807.9	42.6	44.8	-179.99	-4,848.6	536.9	818.8	728.2	90.60	9.037		
14,060.0	8,993.2	15,169.2	9,807.9	43.1	45.2	-179.99	-4,908.6	536.4	818.8	727.3	91.46	8.952		
14,100.0	8,993.2	15,209.2	9,808.0	43.3	45.5	-179.99	-4,948.6	536.1	818.8	726.7	92.04	8.896		
14,155.0	8,993.2	15,264.2	9,808.0	43.7	45.9	-179.99	-5,003.6	535.6	818.8	725.9	92.84	8.819		
14,200.0	8,993.2	15,309.2	9,808.0	44.0	46.2	-179.99	-5,048.6	535.3	818.8	725.3	93.49	8.758		
14,250.0	8,993.3	15,359.2	9,808.0	44.4	46.5	-179.99	-5,098.6	534.9	818.7	724.5	94.21	8.690		
14,300.0	8,993.3	15,409.2	9,808.0	44.7	46.9	-179.99	-5,148.6	534.4	818.7	723.8	94.94	8.624		
14,345.0	8,993.3	15,454.2	9,808.1	45.0	47.2	-179.99	-5,193.6	534.1	818.7	723.1	95.59	8.565		
14,400.0	8,993.3	15,509.2	9,808.1	45.4	47.5	-179.99	-5,248.6	533.6	818.7	722.3	96.39	8.494		
14,440.0	8,993.4	15,549.2	9,808.1	45.7	47.8	-179.99	-5,288.6	533.3	818.7	721.8	96.98	8.442		
14,500.0	8,993.4	15,609.2	9,808.1	46.1	48.2	-179.99	-5,348.6	532.8	818.7	720.9	97.85	8.367		
14,535.0	8,993.4	15,644.2	9,808.1	46.4	48.5	-179.99	-5,383.6	532.5	818.7	720.4	98.36	8.323		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
14,600.0	8,993.4	15,709.2	9,808.2	46.8	48.9	-179.99	-5,448.6	532.0	818.7	719.4	99.31	8.244	
14,630.0	8,993.4	15,739.2	9,808.2	47.0	49.1	-179.99	-5,478.6	531.7	818.7	719.0	99.75	8.207	
14,700.0	8,993.5	15,809.2	9,808.2	47.5	49.6	-179.99	-5,548.6	531.1	818.7	717.9	100.78	8.124	
14,725.0	8,993.5	15,834.2	9,808.2	47.7	49.8	-179.99	-5,573.6	530.9	818.7	717.6	101.15	8.094	
14,800.0	8,993.5	15,909.2	9,808.2	48.2	50.3	-179.99	-5,648.6	530.3	818.7	716.5	102.25	8.007	
14,820.0	8,993.5	15,929.2	9,808.2	48.4	50.5	-179.99	-5,668.6	530.1	818.7	716.2	102.54	7.984	
14,900.0	8,993.6	16,009.2	9,808.3	48.9	51.0	-179.99	-5,748.6	529.5	818.7	715.0	103.72	7.893	
14,915.0	8,993.6	16,024.2	9,808.3	49.1	51.1	-179.99	-5,763.6	529.4	818.7	714.8	103.94	7.877	
15,000.0	8,993.6	16,109.2	9,808.3	49.7	51.7	-179.99	-5,848.6	528.7	818.7	713.5	105.19	7.783	
15,010.0	8,993.6	16,119.2	9,808.3	49.7	51.8	-179.99	-5,858.6	528.6	818.7	713.4	105.34	7.772	
15,100.0	8,993.7	16,209.2	9,808.3	50.4	52.4	-179.99	-5,948.6	527.8	818.7	712.0	106.67	7.675	
15,105.0	8,993.7	16,214.2	9,808.4	50.4	52.5	-179.99	-5,953.6	527.8	818.7	711.9	106.74	7.670	
15,200.0	8,993.7	16,309.2	9,808.4	51.1	53.1	-179.99	-6,048.6	527.0	818.7	710.5	108.15	7.570	
15,295.0	8,993.8	16,404.2	9,808.4	51.8	53.8	-179.99	-6,143.6	526.2	818.7	709.1	109.56	7.473	
15,300.0	8,993.8	16,409.2	9,808.4	51.8	53.9	-179.99	-6,148.6	526.2	818.7	709.0	109.63	7.468	
15,390.0	8,993.8	16,499.2	9,808.5	52.4	54.5	-179.99	-6,238.6	525.4	818.7	707.7	110.97	7.378	
15,400.0	8,993.8	16,509.2	9,808.5	52.5	54.6	-179.99	-6,248.6	525.3	818.7	707.5	111.12	7.368	
15,485.0	8,993.8	16,594.2	9,808.5	53.1	55.2	-179.99	-6,333.5	524.6	818.7	706.3	112.38	7.285	
15,500.0	8,993.8	16,609.2	9,808.5	53.2	55.3	-179.99	-6,348.5	524.5	818.7	706.1	112.60	7.270	
15,580.0	8,993.9	16,689.2	9,808.5	53.8	55.8	-179.99	-6,428.5	523.9	818.7	704.9	113.79	7.194	
15,600.0	8,993.9	16,709.2	9,808.5	54.0	56.0	-179.99	-6,448.5	523.7	818.6	704.6	114.09	7.175	
15,675.0	8,993.9	16,784.2	9,808.6	54.5	56.5	-179.99	-6,523.5	523.1	818.6	703.4	115.21	7.106	
15,700.0	8,993.9	16,809.2	9,808.6	54.7	56.7	-179.99	-6,548.5	522.9	818.6	703.1	115.58	7.083	
15,770.0	8,994.0	16,879.2	9,808.6	55.2	57.2	-179.99	-6,618.5	522.3	818.6	702.0	116.63	7.019	
15,800.0	8,994.0	16,909.2	9,808.6	55.4	57.4	-179.99	-6,648.5	522.0	818.6	701.6	117.07	6.992	
15,865.0	8,994.0	16,974.2	9,808.6	55.9	57.9	-179.99	-6,713.5	521.5	818.6	700.6	118.05	6.935	
15,900.0	8,994.0	17,009.2	9,808.7	56.1	58.1	-179.99	-6,748.5	521.2	818.6	700.1	118.57	6.904	
15,960.0	8,994.1	17,069.2	9,808.7	56.6	58.6	-179.99	-6,808.5	520.7	818.6	699.2	119.47	6.852	
16,000.0	8,994.1	17,109.2	9,808.7	56.8	58.9	-179.99	-6,848.5	520.4	818.6	698.6	120.07	6.818	
16,055.0	8,994.1	17,164.2	9,808.7	57.2	59.3	-179.99	-6,903.5	519.9	818.6	697.7	120.89	6.772	
16,100.0	8,994.1	17,209.2	9,808.7	57.6	59.6	-179.99	-6,948.5	519.6	818.6	697.0	121.56	6.734	
16,150.0	8,994.2	17,259.2	9,808.8	57.9	59.9	-179.99	-6,998.5	519.1	818.6	696.3	122.31	6.693	
16,200.0	8,994.2	17,309.2	9,808.8	58.3	60.3	-179.99	-7,048.5	518.7	818.6	695.5	123.07	6.652	
16,245.0	8,994.2	17,354.2	9,808.8	58.6	60.6	-179.99	-7,093.5	518.4	818.6	694.9	123.74	6.615	
16,300.0	8,994.2	17,409.2	9,808.8	59.0	61.0	-179.99	-7,148.5	517.9	818.6	694.0	124.57	6.572	
16,340.0	8,994.2	17,449.2	9,808.8	59.3	61.3	-179.99	-7,188.5	517.6	818.6	693.4	125.17	6.540	
16,400.0	8,994.3	17,509.2	9,808.9	59.7	61.7	-179.99	-7,248.5	517.1	818.6	692.5	126.07	6.493	
16,435.0	8,994.3	17,544.2	9,808.9	60.0	62.0	-179.99	-7,283.5	516.8	818.6	692.0	126.60	6.466	
16,500.0	8,994.3	17,609.2	9,808.9	60.5	62.5	-179.99	-7,348.5	516.3	818.6	691.0	127.58	6.416	
16,530.0	8,994.3	17,639.2	9,808.9	60.7	62.7	-179.99	-7,378.5	516.0	818.6	690.6	128.03	6.394	
16,600.0	8,994.4	17,709.2	9,808.9	61.2	63.2	-179.99	-7,448.5	515.4	818.6	689.5	129.08	6.341	
16,625.0	8,994.4	17,734.2	9,808.9	61.4	63.4	-179.99	-7,473.5	515.2	818.6	689.1	129.46	6.323	
16,700.0	8,994.4	17,809.2	9,809.0	61.9	63.9	-179.99	-7,548.5	514.6	818.6	688.0	130.59	6.268	
16,720.0	8,994.4	17,829.2	9,809.0	62.1	64.1	-179.99	-7,568.5	514.4	818.6	687.7	130.89	6.254	
16,800.0	8,994.5	17,909.2	9,809.0	62.7	64.6	-179.99	-7,648.5	513.8	818.6	686.5	132.10	6.196	
16,815.0	8,994.5	17,924.2	9,809.0	62.8	64.8	-179.99	-7,663.5	513.7	818.6	686.2	132.33	6.186	
16,900.0	8,994.5	18,009.2	9,809.1	63.4	65.4	-179.99	-7,748.5	513.0	818.6	684.9	133.61	6.126	
16,910.0	8,994.5	18,019.2	9,809.1	63.5	65.4	-179.99	-7,758.5	512.9	818.6	684.8	133.76	6.119	
17,000.0	8,994.5	18,109.2	9,809.1	64.1	66.1	-179.99	-7,848.5	512.1	818.5	683.4	135.12	6.058	
17,005.0	8,994.6	18,114.2	9,809.1	64.2	66.1	-179.99	-7,853.5	512.1	818.5	683.3	135.20	6.054	
17,100.0	8,994.6	18,209.2	9,809.1	64.9	66.8	-179.99	-7,948.5	511.3	818.5	681.9	136.64	5.991	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,195.0	8,994.6	18,304.2	9,809.2	65.6	67.5	-180.00	-8,043.5	510.5	818.5	680.5	138.08	5.928	
17,200.0	8,994.6	18,309.2	9,809.2	65.6	67.6	-180.00	-8,048.5	510.5	818.5	680.4	138.15	5.925	
17,290.0	8,994.7	18,399.2	9,809.2	66.3	68.2	-180.00	-8,138.5	509.7	818.5	679.0	139.52	5.867	
17,300.0	8,994.7	18,409.2	9,809.2	66.3	68.3	-180.00	-8,148.5	509.6	818.5	678.9	139.67	5.860	
17,385.0	8,994.7	18,494.2	9,809.2	67.0	68.9	-180.00	-8,233.5	508.9	818.5	677.6	140.96	5.807	
17,400.0	8,994.7	18,509.2	9,809.3	67.1	69.0	-180.00	-8,248.5	508.8	818.5	677.3	141.19	5.797	
17,480.0	8,994.8	18,589.2	9,809.3	67.7	69.6	-180.00	-8,328.5	508.2	818.5	676.1	142.40	5.748	
17,500.0	8,994.8	18,609.2	9,809.3	67.8	69.8	-180.00	-8,348.5	508.0	818.5	675.8	142.71	5.736	
17,575.0	8,994.8	18,684.2	9,809.3	68.4	70.3	-180.00	-8,423.5	507.4	818.5	674.7	143.85	5.690	
17,600.0	8,994.8	18,709.2	9,809.3	68.5	70.5	-180.00	-8,448.5	507.2	818.5	674.3	144.23	5.675	
17,670.0	8,994.9	18,779.2	9,809.4	69.1	71.0	-180.00	-8,518.5	506.6	818.5	673.2	145.29	5.634	
17,700.0	8,994.9	18,809.2	9,809.4	69.3	71.2	-180.00	-8,548.5	506.3	818.5	672.7	145.75	5.616	
17,765.0	8,994.9	18,874.2	9,809.4	69.8	71.7	-180.00	-8,613.5	505.8	818.5	671.8	146.74	5.578	
17,800.0	8,994.9	18,909.2	9,809.4	70.0	72.0	-180.00	-8,648.5	505.5	818.5	671.2	147.27	5.558	
17,860.0	8,994.9	18,969.2	9,809.4	70.5	72.4	-180.00	-8,708.5	505.0	818.5	670.3	148.18	5.524	
17,900.0	8,995.0	19,009.2	9,809.4	70.8	72.7	-180.00	-8,748.5	504.7	818.5	669.7	148.79	5.501	
17,955.0	8,995.0	19,064.2	9,809.5	71.2	73.1	-180.00	-8,803.5	504.2	818.5	668.8	149.63	5.470	
18,000.0	8,995.0	19,109.2	9,809.5	71.5	73.4	-180.00	-8,848.5	503.9	818.5	668.2	150.31	5.445	
18,050.0	8,995.0	19,159.2	9,809.5	71.9	73.8	-180.00	-8,898.5	503.4	818.5	667.4	151.08	5.418	
18,100.0	8,995.1	19,209.2	9,809.5	72.2	74.2	-180.00	-8,948.5	503.0	818.5	666.6	151.84	5.390	
18,145.0	8,995.1	19,254.2	9,809.5	72.6	74.5	-180.00	-8,993.5	502.7	818.5	665.9	152.53	5.366	
18,200.0	8,995.1	19,309.2	9,809.6	73.0	74.9	-180.00	-9,048.5	502.2	818.5	665.1	153.36	5.337	
18,240.0	8,995.1	19,349.2	9,809.6	73.3	75.2	-180.00	-9,088.5	501.9	818.5	664.5	153.97	5.316	
18,300.0	8,995.2	19,409.2	9,809.6	73.7	75.6	-180.00	-9,148.5	501.4	818.5	663.6	154.89	5.284	
18,335.0	8,995.2	19,444.2	9,809.6	74.0	75.9	-180.00	-9,183.5	501.1	818.4	663.0	155.42	5.266	
18,400.0	8,995.2	19,509.2	9,809.6	74.5	76.4	-180.00	-9,248.5	500.6	818.4	662.0	156.42	5.232	
18,430.0	8,995.2	19,539.2	9,809.7	74.7	76.6	-180.00	-9,278.4	500.3	818.4	661.6	156.88	5.217	
18,500.0	8,995.2	19,609.2	9,809.7	75.2	77.1	-180.00	-9,348.4	499.7	818.4	660.5	157.95	5.182	
18,525.0	8,995.3	19,634.2	9,809.7	75.4	77.3	-180.00	-9,373.4	499.5	818.4	660.1	158.33	5.169	
18,600.0	8,995.3	19,709.2	9,809.7	76.0	77.9	-180.00	-9,448.4	498.9	818.4	659.0	159.47	5.132	
18,620.0	8,995.3	19,729.2	9,809.7	76.1	78.0	-180.00	-9,468.4	498.7	818.4	658.6	159.78	5.122	
18,700.0	8,995.3	19,809.2	9,809.8	76.7	78.6	-180.00	-9,548.4	498.1	818.4	657.4	161.00	5.083	
18,715.0	8,995.3	19,824.2	9,809.8	76.8	78.7	-180.00	-9,563.4	498.0	818.4	657.2	161.23	5.076	
18,800.0	8,995.4	19,909.2	9,809.8	77.4	79.3	-180.00	-9,648.4	497.3	818.4	655.9	162.53	5.035	
18,810.0	8,995.4	19,919.2	9,809.8	77.5	79.4	-180.00	-9,658.4	497.2	818.4	655.7	162.69	5.031	
18,900.0	8,995.4	20,009.2	9,809.8	78.2	80.1	-180.00	-9,748.4	496.4	818.4	654.3	164.07	4.988	
18,905.0	8,995.4	20,014.2	9,809.8	78.2	80.1	-180.00	-9,753.4	496.4	818.4	654.3	164.14	4.986	
19,000.0	8,995.5	20,109.2	9,809.9	78.9	80.8	-180.00	-9,848.4	495.6	818.4	652.8	165.60	4.942	
19,095.0	8,995.5	20,204.2	9,809.9	79.6	81.5	-180.00	-9,943.4	494.8	818.4	651.3	167.05	4.899	
19,100.0	8,995.5	20,209.2	9,809.9	79.7	81.6	-180.00	-9,948.4	494.8	818.4	651.3	167.13	4.897	
19,190.0	8,995.6	20,299.2	9,810.0	80.3	82.2	-180.00	-10,038.4	494.0	818.4	649.9	168.51	4.857	
19,200.0	8,995.6	20,309.2	9,810.0	80.4	82.3	-180.00	-10,048.4	493.9	818.4	649.7	168.66	4.852	
19,285.0	8,995.6	20,394.2	9,810.0	81.0	82.9	-180.00	-10,133.4	493.2	818.4	648.4	169.97	4.815	
19,300.0	8,995.6	20,409.2	9,810.0	81.2	83.1	-180.00	-10,148.4	493.1	818.4	648.2	170.20	4.808	
19,380.0	8,995.7	20,489.2	9,810.0	81.8	83.6	-180.00	-10,228.4	492.5	818.4	646.9	171.42	4.774	
19,400.0	8,995.7	20,509.2	9,810.0	81.9	83.8	-180.00	-10,248.4	492.3	818.4	646.6	171.73	4.765	
19,475.0	8,995.7	20,584.2	9,810.1	82.5	84.4	-180.00	-10,323.4	491.7	818.4	645.5	172.88	4.734	
19,500.0	8,995.7	20,609.2	9,810.1	82.7	84.5	-180.00	-10,348.4	491.5	818.4	645.1	173.27	4.723	
19,570.0	8,995.7	20,679.2	9,810.1	83.2	85.1	-180.00	-10,418.4	490.9	818.4	644.0	174.34	4.694	
19,600.0	8,995.8	20,709.2	9,810.1	83.4	85.3	-180.00	-10,448.4	490.6	818.4	643.6	174.80	4.682	
19,665.0	8,995.8	20,774.2	9,810.1	83.9	85.8	-180.00	-10,513.4	490.1	818.3	642.5	175.80	4.655	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
19,700.0	8,995.8	20,809.2	9,810.2	84.1	86.0	-180.00	-10,548.4	489.8	818.3	642.0	176.34	4.641
19,760.0	8,995.8	20,869.2	9,810.2	84.6	86.5	-180.00	-10,608.4	489.3	818.3	641.1	177.26	4.617
19,800.0	8,995.9	20,909.2	9,810.2	84.9	86.8	-180.00	-10,648.4	489.0	818.3	640.5	177.88	4.601
19,855.0	8,995.9	20,964.2	9,810.2	85.3	87.2	-180.00	-10,703.4	488.5	818.3	639.6	178.72	4.579
19,900.0	8,995.9	21,009.2	9,810.2	85.6	87.5	-180.00	-10,748.4	488.2	818.3	638.9	179.41	4.561
19,950.0	8,995.9	21,059.2	9,810.3	86.0	87.9	-180.00	-10,798.4	487.7	818.3	638.1	180.18	4.542
20,000.0	8,995.9	21,109.2	9,810.3	86.4	88.3	-180.00	-10,848.4	487.3	818.3	637.4	180.95	4.522
20,045.0	8,996.0	21,154.2	9,810.3	86.7	88.6	-180.00	-10,893.4	487.0	818.3	636.7	181.64	4.505
20,100.0	8,996.0	21,209.2	9,810.3	87.1	89.0	-180.00	-10,948.4	486.5	818.3	635.8	182.49	4.484
20,140.0	8,996.0	21,249.2	9,810.3	87.4	89.3	-180.00	-10,988.4	486.2	818.3	635.2	183.11	4.469
20,200.0	8,996.0	21,309.2	9,810.3	87.9	89.8	-180.00	-11,048.4	485.7	818.3	634.3	184.03	4.447
20,235.0	8,996.1	21,344.2	9,810.4	88.1	90.0	-180.00	-11,083.4	485.4	818.3	633.7	184.57	4.434
20,300.0	8,996.1	21,409.2	9,810.4	88.6	90.5	-180.00	-11,148.4	484.9	818.3	632.7	185.57	4.410
20,330.0	8,996.1	21,439.2	9,810.4	88.9	90.7	-180.00	-11,178.4	484.6	818.3	632.3	186.03	4.399
20,400.0	8,996.1	21,509.2	9,810.4	89.4	91.2	-180.00	-11,248.4	484.0	818.3	631.2	187.11	4.373
20,425.0	8,996.1	21,534.2	9,810.4	89.6	91.4	-180.00	-11,273.4	483.8	818.3	630.8	187.49	4.364
20,500.0	8,996.2	21,609.2	9,810.5	90.1	92.0	-180.00	-11,348.4	483.2	818.3	629.6	188.65	4.338
20,520.0	8,996.2	21,629.2	9,810.5	90.3	92.1	-180.00	-11,368.4	483.0	818.3	629.3	188.96	4.331
20,600.0	8,996.2	21,709.2	9,810.5	90.9	92.7	-180.00	-11,448.4	482.4	818.3	628.1	190.19	4.302
20,615.0	8,996.2	21,724.2	9,810.5	91.0	92.9	-180.00	-11,463.4	482.3	818.3	627.9	190.42	4.297
20,700.0	8,996.3	21,809.2	9,810.5	91.6	93.5	-180.00	-11,548.4	481.6	818.3	626.5	191.73	4.268
20,710.0	8,996.3	21,819.2	9,810.6	91.7	93.6	-180.00	-11,558.4	481.5	818.3	626.4	191.89	4.264
20,800.0	8,996.3	21,909.2	9,810.6	92.4	94.2	-180.00	-11,648.4	480.7	818.3	625.0	193.27	4.234
20,805.0	8,996.3	21,914.2	9,810.6	92.4	94.3	-180.00	-11,653.4	480.7	818.3	624.9	193.35	4.232
20,900.0	8,996.4	22,009.2	9,810.6	93.1	95.0	-180.00	-11,748.4	479.9	818.3	623.4	194.82	4.200
20,995.0	8,996.4	22,104.2	9,810.7	93.8	95.7	-180.00	-11,843.4	479.1	818.3	622.0	196.28	4.169
21,000.0	8,996.4	22,109.2	9,810.7	93.9	95.7	-180.00	-11,848.4	479.1	818.3	621.9	196.36	4.167
21,090.0	8,996.5	22,199.2	9,810.7	94.6	96.4	-180.00	-11,938.4	478.3	818.2	620.5	197.75	4.138
21,100.0	8,996.5	22,209.2	9,810.7	94.6	96.5	-180.00	-11,948.4	478.2	818.2	620.3	197.90	4.135
21,185.0	8,996.5	22,294.2	9,810.7	95.3	97.1	-180.00	-12,033.4	477.5	818.2	619.0	199.21	4.107
21,200.0	8,996.5	22,309.2	9,810.7	95.4	97.2	-180.00	-12,048.4	477.4	818.2	618.8	199.45	4.103
21,280.0	8,996.5	22,389.2	9,810.8	96.0	97.8	-180.00	-12,128.4	476.8	818.2	617.5	200.68	4.077
21,300.0	8,996.6	22,409.2	9,810.8	96.1	98.0	-180.00	-12,148.4	476.6	818.2	617.2	200.99	4.071
21,375.0	8,996.6	22,484.2	9,810.8	96.7	98.5	-180.00	-12,223.3	476.0	818.2	616.1	202.15	4.048
21,400.0	8,996.6	22,509.2	9,810.8	96.9	98.7	-180.00	-12,248.3	475.8	818.2	615.7	202.53	4.040
21,470.0	8,996.6	22,579.2	9,810.8	97.4	99.3	-180.00	-12,318.3	475.2	818.2	614.6	203.62	4.018
21,500.0	8,996.6	22,609.2	9,810.9	97.6	99.5	-180.00	-12,348.3	474.9	818.2	614.1	204.08	4.009
21,565.0	8,996.7	22,674.2	9,810.9	98.1	100.0	-180.00	-12,413.3	474.4	818.2	613.1	205.08	3.990
21,600.0	8,996.7	22,709.2	9,810.9	98.4	100.2	-180.00	-12,448.3	474.1	818.2	612.6	205.62	3.979
21,660.0	8,996.7	22,769.2	9,810.9	98.8	100.7	-180.00	-12,508.3	473.6	818.2	611.7	206.55	3.961
21,700.0	8,996.7	22,809.2	9,810.9	99.1	101.0	-180.00	-12,548.3	473.3	818.2	611.0	207.17	3.949
21,755.0	8,996.8	22,864.2	9,811.0	99.5	101.4	-180.00	-12,603.3	472.8	818.2	610.2	208.02	3.933
21,800.0	8,996.8	22,909.2	9,811.0	99.9	101.7	-180.00	-12,648.3	472.5	818.2	609.5	208.72	3.920
21,850.0	8,996.8	22,959.2	9,811.0	100.3	102.1	-180.00	-12,698.3	472.0	818.2	608.7	209.49	3.906
21,900.0	8,996.8	23,009.2	9,811.0	100.6	102.5	-180.00	-12,748.3	471.6	818.2	607.9	210.26	3.891
21,945.0	8,996.9	23,054.2	9,811.0	101.0	102.8	-180.00	-12,793.3	471.3	818.2	607.2	210.96	3.878
22,000.0	8,996.9	23,109.2	9,811.1	101.4	103.2	-180.00	-12,848.3	470.8	818.2	606.4	211.81	3.863
22,040.0	8,996.9	23,149.2	9,811.1	101.7	103.5	-180.00	-12,888.3	470.5	818.2	605.7	212.43	3.852
22,100.0	8,996.9	23,209.2	9,811.1	102.1	104.0	-180.00	-12,948.3	470.0	818.2	604.8	213.36	3.835
22,135.0	8,996.9	23,244.2	9,811.1	102.4	104.2	-180.00	-12,983.3	469.7	818.2	604.3	213.90	3.825
22,200.0	8,997.0	23,309.2	9,811.1	102.9	104.7	-180.00	-13,048.3	469.2	818.2	603.3	214.90	3.807

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	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)			
22,230.0	8,997.0	23,339.2	9,811.1	103.1	105.0	-180.00	-13,078.3	468.9	818.2	602.8	215.37	3.799	
22,300.0	8,997.0	23,409.2	9,811.2	103.6	105.5	-180.00	-13,148.3	468.3	818.2	601.7	216.45	3.780	
22,325.0	8,997.0	23,434.2	9,811.2	103.8	105.7	-180.00	-13,173.3	468.1	818.2	601.3	216.84	3.773	
22,400.0	8,997.1	23,509.2	9,811.2	104.4	106.2	-180.00	-13,248.3	467.5	818.1	600.1	218.00	3.753	
22,420.0	8,997.1	23,529.2	9,811.2	104.6	106.4	-180.00	-13,268.3	467.3	818.1	599.8	218.31	3.748	
22,500.0	8,997.1	23,609.2	9,811.3	105.2	107.0	-180.00	-13,348.3	466.7	818.1	598.6	219.55	3.726	
22,515.0	8,997.1	23,624.2	9,811.3	105.3	107.1	-180.00	-13,363.3	466.6	818.1	598.4	219.78	3.723	
22,600.0	8,997.2	23,709.2	9,811.3	105.9	107.7	-180.00	-13,448.3	465.9	818.1	597.0	221.10	3.700	
22,610.0	8,997.2	23,719.2	9,811.3	106.0	107.8	-180.00	-13,458.3	465.8	818.1	596.9	221.25	3.698	
22,700.0	8,997.2	23,809.2	9,811.3	106.7	108.5	-180.00	-13,548.3	465.0	818.1	595.5	222.65	3.675	
22,705.0	8,997.2	23,814.2	9,811.3	106.7	108.5	-180.00	-13,553.3	465.0	818.1	595.4	222.72	3.673	
22,800.0	8,997.3	23,909.2	9,811.4	107.4	109.2	-180.00	-13,648.3	464.2	818.1	593.9	224.19	3.649	
22,895.0	8,997.3	24,004.2	9,811.4	108.1	110.0	-180.00	-13,743.3	463.4	818.1	592.4	225.67	3.625	
22,900.0	8,997.3	24,009.2	9,811.4	108.2	110.0	-180.00	-13,748.3	463.4	818.1	592.4	225.74	3.624	
22,990.0	8,997.3	24,099.2	9,811.4	108.8	110.7	-180.00	-13,838.3	462.6	818.1	591.0	227.14	3.602	
23,000.0	8,997.3	24,109.2	9,811.4	108.9	110.7	-180.00	-13,848.3	462.5	818.1	590.8	227.29	3.599	
23,085.0	8,997.4	24,194.2	9,811.5	109.6	111.4	-180.00	-13,933.3	461.8	818.1	589.5	228.61	3.579	
23,100.0	8,997.4	24,209.2	9,811.5	109.7	111.5	-180.00	-13,948.3	461.7	818.1	589.3	228.84	3.575	
23,180.0	8,997.4	24,289.2	9,811.5	110.3	112.1	-180.00	-14,028.3	461.1	818.1	588.0	230.08	3.556	
23,200.0	8,997.4	24,309.2	9,811.5	110.4	112.2	-180.00	-14,048.3	460.9	818.1	587.7	230.39	3.551	
23,275.0	8,997.5	24,384.2	9,811.6	111.0	112.8	-180.00	-14,123.3	460.3	818.1	586.5	231.56	3.533	
23,300.0	8,997.5	24,409.2	9,811.6	111.2	113.0	-180.00	-14,148.3	460.1	818.1	586.1	231.94	3.527	
23,370.0	8,997.5	24,479.2	9,811.6	111.7	113.5	-180.00	-14,218.3	459.5	818.1	585.0	233.03	3.511	
23,400.0	8,997.5	24,509.2	9,811.6	111.9	113.8	-180.00	-14,248.3	459.2	818.1	584.6	233.49	3.504	
23,465.0	8,997.6	24,574.2	9,811.6	112.4	114.2	-180.00	-14,313.3	458.7	818.1	583.6	234.50	3.489	
23,500.0	8,997.6	24,609.2	9,811.6	112.7	114.5	-180.00	-14,348.3	458.4	818.1	583.0	235.05	3.480	
23,560.0	8,997.6	24,669.2	9,811.7	113.1	115.0	-180.00	-14,408.3	457.9	818.1	582.1	235.98	3.467	
23,600.0	8,997.6	24,709.2	9,811.7	113.4	115.3	-180.00	-14,448.3	457.6	818.1	581.5	236.60	3.458	
23,655.0	8,997.6	24,764.2	9,811.7	113.9	115.7	-180.00	-14,503.3	457.1	818.1	580.6	237.45	3.445	
23,700.0	8,997.7	24,809.2	9,811.7	114.2	116.0	-180.00	-14,548.3	456.8	818.1	579.9	238.15	3.435	
23,750.0	8,997.7	24,859.2	9,811.7	114.6	116.4	-180.00	-14,598.3	456.3	818.0	579.1	238.92	3.424	
23,800.0	8,997.7	24,909.2	9,811.8	115.0	116.8	-180.00	-14,648.3	455.9	818.0	578.3	239.70	3.413	
23,845.0	8,997.7	24,954.2	9,811.8	115.3	117.1	-180.00	-14,693.3	455.6	818.0	577.6	240.40	3.403	
23,900.0	8,997.8	25,009.2	9,811.8	115.7	117.5	-180.00	-14,748.3	455.1	818.0	576.8	241.25	3.391	
23,940.0	8,997.8	25,049.2	9,811.8	116.0	117.8	-180.00	-14,788.3	454.8	818.0	576.2	241.87	3.382	
24,000.0	8,997.8	25,109.2	9,811.8	116.5	118.3	-180.00	-14,848.3	454.3	818.0	575.2	242.80	3.369	
24,035.0	8,997.8	25,144.2	9,811.9	116.7	118.5	-180.00	-14,883.3	454.0	818.0	574.7	243.35	3.362	
24,100.0	8,997.9	25,209.2	9,811.9	117.2	119.0	-180.00	-14,948.3	453.5	818.0	573.7	244.36	3.348	
24,130.0	8,997.9	25,239.2	9,811.9	117.5	119.3	-180.00	-14,978.3	453.2	818.0	573.2	244.82	3.341	
24,200.0	8,997.9	25,309.2	9,811.9	118.0	119.8	-180.00	-15,048.3	452.6	818.0	572.1	245.91	3.326	
24,225.0	8,997.9	25,334.2	9,811.9	118.2	120.0	-180.00	-15,073.3	452.4	818.0	571.7	246.30	3.321	
24,275.8	8,997.9	25,385.0	9,811.9	118.6	120.4	-180.00	-15,124.1	452.0	818.0	570.9	247.09	3.311	
24,300.0	8,998.0	25,409.2	9,812.0	118.7	120.5	180.00	-15,148.2	451.8	818.0	570.5	247.46	3.306	
24,320.0	8,998.0	25,429.2	9,812.0	118.9	120.7	180.00	-15,168.2	451.6	818.0	570.2	247.77	3.301	
24,405.9	8,998.0	25,515.1	9,812.0	119.5	121.3	180.00	-15,254.2	450.9	818.0	568.9	249.11	3.284 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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	-31.91	148.4	-92.4	174.9				
95.0	95.0	90.4	90.4	3.0	3.0	-31.91	148.4	-92.4	174.8	168.8	6.03	28.969	
100.0	100.0	95.4	95.4	3.0	3.0	-31.91	148.4	-92.4	174.8	168.8	6.04	28.946	
190.0	190.0	185.4	185.4	3.1	3.1	-31.91	148.4	-92.4	174.8	168.6	6.25	27.975	
200.0	200.0	195.4	195.4	3.1	3.1	-31.91	148.4	-92.4	174.8	168.5	6.28	27.822	
285.0	285.0	280.4	280.4	3.3	3.2	-31.91	148.4	-92.4	174.8	168.3	6.49	26.935	
300.0	300.0	295.4	295.4	3.3	3.3	-31.91	148.4	-92.4	174.8	168.3	6.53	26.767	
380.0	380.0	375.4	375.4	3.4	3.4	-31.91	148.4	-92.4	174.8	168.1	6.72	26.004	
400.0	400.0	395.4	395.4	3.4	3.4	-31.91	148.4	-92.4	174.8	168.0	6.77	25.807	
475.0	475.0	470.4	470.4	3.5	3.5	-31.91	148.4	-92.4	174.8	167.9	6.95	25.148	
500.0	500.0	495.4	495.4	3.5	3.5	-31.91	148.4	-92.4	174.8	167.8	7.01	24.925	
570.0	570.0	565.4	565.4	3.6	3.6	-31.91	148.4	-92.4	174.8	167.6	7.18	24.357	
600.0	600.0	595.4	595.4	3.6	3.6	-31.91	148.4	-92.4	174.8	167.6	7.25	24.112	
665.0	665.0	660.4	660.4	3.7	3.7	-31.91	148.4	-92.4	174.8	167.4	7.40	23.622	
700.0	700.0	695.4	695.4	3.8	3.8	-31.91	148.4	-92.4	174.8	167.3	7.48	23.359	
760.0	760.0	755.4	755.4	3.8	3.8	-31.91	148.4	-92.4	174.8	167.2	7.62	22.937	
800.0	800.0	795.4	795.4	3.9	3.9	-31.91	148.4	-92.4	174.8	167.1	7.72	22.659	
855.0	855.0	850.4	850.4	4.0	3.9	-31.91	148.4	-92.4	174.8	167.0	7.84	22.297	
900.0	900.0	895.4	895.4	4.0	4.0	-31.91	148.4	-92.4	174.8	166.9	7.94	22.005	
950.0	950.0	945.4	945.4	4.1	4.1	-31.91	148.4	-92.4	174.8	166.8	8.06	21.697	
1,000.0	1,000.0	995.4	995.4	4.1	4.1	-31.91	148.4	-92.4	174.8	166.6	8.17	21.393	
1,045.0	1,045.0	1,040.4	1,040.4	4.2	4.2	-31.91	148.4	-92.4	174.8	166.5	8.27	21.133	
1,100.0	1,100.0	1,095.4	1,095.4	4.2	4.2	-31.91	148.4	-92.4	174.8	166.4	8.40	20.819	
1,140.0	1,140.0	1,135.4	1,135.4	4.3	4.3	-31.91	148.4	-92.4	174.8	166.3	8.49	20.601	
1,200.0	1,200.0	1,195.4	1,195.4	4.4	4.4	-31.91	148.4	-92.4	174.8	166.2	8.62	20.279	
1,235.0	1,235.0	1,230.4	1,230.4	4.4	4.4	-31.91	148.4	-92.4	174.8	166.1	8.70	20.099	
1,300.0	1,300.0	1,295.4	1,295.4	4.5	4.5	-31.91	148.4	-92.4	174.8	166.0	8.84	19.770	
1,330.0	1,330.0	1,325.4	1,325.4	4.5	4.5	-31.91	148.4	-92.4	174.8	165.9	8.91	19.624	
1,400.0	1,400.0	1,395.4	1,395.4	4.6	4.6	-31.91	148.4	-92.4	174.8	165.8	9.06	19.289	
1,425.0	1,425.0	1,420.4	1,420.4	4.6	4.6	-31.91	148.4	-92.4	174.8	165.7	9.12	19.173	
1,500.0	1,500.0	1,495.4	1,495.4	4.7	4.7	-31.91	148.4	-92.4	174.8	165.5	9.28	18.833 CC	
1,520.0	1,520.0	1,514.5	1,514.5	4.7	4.7	-88.59	148.4	-92.4	174.9	165.5	9.34	18.728 ES	
1,600.0	1,600.0	1,589.9	1,589.9	4.9	4.9	-89.02	149.7	-93.0	176.3	166.7	9.55	18.465	
1,615.0	1,615.0	1,604.0	1,604.0	4.9	4.9	-89.16	150.1	-93.2	176.8	167.2	9.60	18.411	
1,700.0	1,699.8	1,683.9	1,683.8	5.1	5.1	-90.29	153.8	-94.8	181.0	171.0	9.92	18.242	
1,710.0	1,709.8	1,693.3	1,693.1	5.1	5.1	-90.45	154.3	-95.1	181.6	171.7	9.96	18.239	
1,800.0	1,799.5	1,777.4	1,776.9	5.3	5.4	-92.23	160.6	-98.0	189.1	178.8	10.29	18.375	
1,805.0	1,804.4	1,782.0	1,781.6	5.4	5.4	-92.35	161.0	-98.1	189.6	179.3	10.31	18.391	
1,900.0	1,898.7	1,870.1	1,869.0	5.6	5.6	-94.66	170.1	-102.3	200.9	190.2	10.66	18.850	
1,995.0	1,992.5	1,957.2	1,955.2	5.9	5.9	-97.19	181.5	-107.5	215.7	204.7	11.01	19.592	
2,000.0	1,997.5	1,961.7	1,959.7	5.9	5.9	-97.32	182.2	-107.8	216.6	205.6	11.03	19.639	
2,090.0	2,085.8	2,043.2	2,039.9	6.3	6.1	-99.76	195.1	-113.7	234.3	222.9	11.31	20.707	
2,100.0	2,095.6	2,052.3	2,048.9	6.3	6.2	-100.03	196.7	-114.4	236.4	225.1	11.34	20.849	
2,185.0	2,178.5	2,134.2	2,129.3	6.6	6.4	-102.56	210.9	-120.8	255.5	243.9	11.64	21.945	
2,199.8	2,192.9	2,148.4	2,143.2	6.6	6.4	-103.01	213.4	-122.0	259.0	247.3	11.70	22.127	
2,280.0	2,270.7	2,225.4	2,218.8	6.9	6.6	-105.65	226.8	-128.0	278.0	265.9	12.04	23.089	
2,300.0	2,290.1	2,244.6	2,237.6	7.0	6.7	-106.25	230.1	-129.6	282.8	270.7	12.13	23.322	
2,375.0	2,362.9	2,316.5	2,308.3	7.2	6.9	-108.34	242.6	-135.2	301.2	288.7	12.46	24.171	
2,400.0	2,387.1	2,340.5	2,331.8	7.3	7.0	-108.98	246.8	-137.1	307.4	294.8	12.57	24.445	
2,470.0	2,455.0	2,407.7	2,397.8	7.5	7.2	-110.65	258.4	-142.4	324.9	312.0	12.90	25.184	
2,500.0	2,484.1	2,436.5	2,426.0	7.6	7.3	-111.31	263.4	-144.7	332.5	319.4	13.04	25.489	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)		
2,565.0	2,547.2	2,498.9	2,487.3	7.9	7.5	-112.64	274.3	-149.6	349.0	335.7	13.36	26.126	
2,600.0	2,581.2	2,532.5	2,520.2	8.0	7.6	-113.31	280.1	-152.3	358.0	344.5	13.53	26.456	
2,660.0	2,639.4	2,590.0	2,576.7	8.2	7.8	-114.38	290.1	-156.8	373.5	359.7	13.84	26.999	
2,700.0	2,678.2	2,628.4	2,614.4	8.4	8.0	-115.05	296.8	-159.9	383.9	369.9	14.04	27.347	
2,755.0	2,731.6	2,681.2	2,666.2	8.6	8.1	-115.91	305.9	-164.0	398.3	384.0	14.33	27.805	
2,800.0	2,775.2	2,724.4	2,708.6	8.7	8.3	-116.57	313.4	-167.5	410.2	395.6	14.56	28.167	
2,850.0	2,823.8	2,772.4	2,755.7	8.9	8.5	-117.26	321.8	-171.2	423.4	408.5	14.83	28.550	
2,900.0	2,872.3	2,820.3	2,802.8	9.1	8.7	-117.91	330.1	-175.0	436.6	421.5	15.10	28.920	
2,945.0	2,915.9	2,863.5	2,845.2	9.3	8.8	-118.46	337.6	-178.5	448.6	433.2	15.34	29.237	
3,000.0	2,969.3	2,916.3	2,897.0	9.5	9.0	-119.09	346.8	-182.6	463.3	447.6	15.64	29.611	
3,040.0	3,008.1	2,954.7	2,934.7	9.7	9.2	-119.53	353.4	-185.7	474.0	458.1	15.87	29.871	
3,100.0	3,066.3	3,012.3	2,991.2	10.0	9.4	-120.15	363.4	-190.2	490.1	473.9	16.20	30.247	
3,135.0	3,100.3	3,045.9	3,024.2	10.1	9.5	-120.50	369.3	-192.9	499.5	483.1	16.40	30.456	
3,200.0	3,163.4	3,108.2	3,085.4	10.4	9.8	-121.10	380.1	-197.8	517.0	500.3	16.77	30.831	
3,230.0	3,192.5	3,137.0	3,113.7	10.5	9.9	-121.37	385.1	-200.1	525.1	508.2	16.94	30.996	
3,300.0	3,260.4	3,204.2	3,179.6	10.8	10.2	-121.96	396.8	-205.4	544.1	526.8	17.35	31.369	
3,325.0	3,284.7	3,228.2	3,203.2	10.9	10.3	-122.16	400.9	-207.3	550.9	533.4	17.49	31.496	
3,400.0	3,357.4	3,300.1	3,273.8	11.2	10.6	-122.73	413.4	-212.9	571.3	553.4	17.93	31.865	
3,420.0	3,376.8	3,319.3	3,292.7	11.3	10.6	-122.88	416.8	-214.5	576.7	558.7	18.05	31.959	
3,500.0	3,454.5	3,396.1	3,368.0	11.7	11.0	-123.43	430.1	-220.5	598.5	580.0	18.52	32.322	
3,515.0	3,469.0	3,410.5	3,382.1	11.7	11.0	-123.53	432.6	-221.7	602.6	584.0	18.61	32.388	
3,600.0	3,551.5	3,492.1	3,462.2	12.1	11.3	-124.08	446.8	-228.1	625.9	606.8	19.11	32.745	
3,610.0	3,561.2	3,501.7	3,471.6	12.2	11.4	-124.14	448.4	-228.9	628.6	609.4	19.17	32.786	
3,700.0	3,648.5	3,588.0	3,556.4	12.5	11.8	-124.67	463.4	-235.7	653.3	633.6	19.72	33.137	
3,705.0	3,653.4	3,592.8	3,561.1	12.6	11.8	-124.69	464.3	-236.1	654.7	634.9	19.75	33.156	
3,800.0	3,745.6	3,684.0	3,650.6	13.0	12.2	-125.21	480.1	-243.3	680.8	660.4	20.32	33.500	
3,895.0	3,837.7	3,775.2	3,740.1	13.4	12.5	-125.68	495.9	-250.5	706.9	686.0	20.90	33.821	
3,900.0	3,842.6	3,780.0	3,744.8	13.4	12.6	-125.71	496.8	-250.8	708.3	687.3	20.93	33.838	
3,990.0	3,929.9	3,866.3	3,829.6	13.9	12.9	-126.13	511.8	-257.7	733.1	711.6	21.48	34.121	
4,000.0	3,939.6	3,875.9	3,839.0	13.9	13.0	-126.17	513.4	-258.4	735.8	714.3	21.55	34.152	
4,019.1	3,958.1	3,894.2	3,857.0	14.0	13.1	-126.26	516.6	-259.9	741.1	719.5	21.65	34.224	
4,085.0	4,022.3	3,957.6	3,919.2	14.3	13.3	-126.79	527.6	-264.9	758.9	736.8	22.05	34.410	
4,100.0	4,036.9	3,972.1	3,933.4	14.3	13.4	-126.89	530.1	-266.0	762.8	740.7	22.14	34.446	
4,180.0	4,115.3	4,049.5	4,009.4	14.7	13.7	-127.34	543.6	-272.1	782.9	760.3	22.64	34.583	
4,200.0	4,134.9	4,068.9	4,028.5	14.8	13.8	-127.43	546.9	-273.7	787.8	765.0	22.76	34.608	
4,275.0	4,208.9	4,152.3	4,110.4	15.2	14.2	-127.69	561.0	-280.0	804.9	781.6	23.29	34.559	
4,300.0	4,233.6	4,182.6	4,140.3	15.3	14.3	-127.76	565.6	-282.1	810.0	786.5	23.48	34.495	
4,370.0	4,303.0	4,267.9	4,224.7	15.6	14.7	-127.95	577.0	-287.3	822.7	798.7	23.99	34.289	
4,400.0	4,332.8	4,304.7	4,261.2	15.7	14.9	-128.02	581.2	-289.2	827.4	803.2	24.21	34.175	
4,465.0	4,397.4	4,385.0	4,341.0	16.0	15.2	-128.17	588.9	-292.7	836.1	811.5	24.65	33.920	
4,500.0	4,432.3	4,428.4	4,384.2	16.1	15.4	-128.24	592.2	-294.2	839.9	815.0	24.88	33.762	
4,560.0	4,492.2	4,503.0	4,458.8	16.3	15.7	-128.34	596.5	-296.2	844.9	819.7	25.24	33.474	
4,600.0	4,532.1	4,553.0	4,508.6	16.5	15.8	-128.40	598.4	-297.1	847.2	821.8	25.46	33.276	
4,655.0	4,587.1	4,621.7	4,577.4	16.7	16.0	-128.48	599.7	-297.7	849.1	823.4	25.71	33.029	
4,700.0	4,632.1	4,671.9	4,627.5	16.8	16.0	-128.52	599.8	-297.7	849.6	823.7	25.83	32.889	
4,718.9	4,651.0	4,690.8	4,646.4	16.8	16.0	-71.86	599.8	-297.7	849.6	823.8	25.85	32.868	
4,750.0	4,682.1	4,721.9	4,677.5	16.8	16.1	-71.86	599.8	-297.7	849.6	823.7	25.88	32.825	
4,800.0	4,732.1	4,771.9	4,727.5	16.8	16.1	-71.86	599.8	-297.7	849.6	823.7	25.94	32.751	
4,845.0	4,777.1	4,816.9	4,772.5	16.9	16.1	-71.86	599.8	-297.7	849.6	823.6	26.00	32.676	
4,900.0	4,832.1	4,871.9	4,827.5	16.9	16.1	-71.86	599.8	-297.7	849.6	823.5	26.07	32.585	
4,940.0	4,872.1	4,911.9	4,867.5	16.9	16.2	-71.86	599.8	-297.7	849.6	823.5	26.13	32.519	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)		
5,000.0	4,932.1	4,971.9	4,927.5	16.9	16.2	-71.86	599.8	-297.7	849.6	823.4	26.21	32.420	
5,035.0	4,967.1	5,006.9	4,962.5	17.0	16.2	-71.86	599.8	-297.7	849.6	823.4	26.25	32.363	
5,100.0	5,032.1	5,071.9	5,027.5	17.0	16.3	-71.86	599.8	-297.7	849.6	823.3	26.34	32.257	
5,130.0	5,062.1	5,101.9	5,057.5	17.0	16.3	-71.86	599.8	-297.7	849.6	823.2	26.38	32.208	
5,200.0	5,132.1	5,171.9	5,127.5	17.0	16.3	-71.86	599.8	-297.7	849.6	823.1	26.47	32.095	
5,225.0	5,157.1	5,196.9	5,152.5	17.1	16.3	-71.86	599.8	-297.7	849.6	823.1	26.51	32.054	
5,300.0	5,232.1	5,271.9	5,227.5	17.1	16.4	-71.86	599.8	-297.7	849.6	823.0	26.61	31.934	
5,320.0	5,252.1	5,291.9	5,247.5	17.1	16.4	-71.86	599.8	-297.7	849.6	823.0	26.63	31.902	
5,400.0	5,332.1	5,371.9	5,327.5	17.1	16.4	-71.86	599.8	-297.7	849.6	822.9	26.74	31.774	
5,415.0	5,347.1	5,386.9	5,342.5	17.2	16.4	-71.86	599.8	-297.7	849.6	822.9	26.76	31.750	
5,500.0	5,432.1	5,471.9	5,427.5	17.2	16.5	-71.86	599.8	-297.7	849.6	822.7	26.87	31.616	
5,510.0	5,442.1	5,481.9	5,437.5	17.2	16.5	-71.86	599.8	-297.7	849.6	822.7	26.89	31.600	
5,600.0	5,532.1	5,571.9	5,527.5	17.2	16.6	-71.86	599.8	-297.7	849.6	822.6	27.01	31.458	
5,605.0	5,537.1	5,576.9	5,532.5	17.3	16.6	-71.86	599.8	-297.7	849.6	822.6	27.01	31.450	
5,700.0	5,632.1	5,671.9	5,627.5	17.3	16.6	-71.86	599.8	-297.7	849.6	822.5	27.14	31.302	
5,795.0	5,727.1	5,766.9	5,722.5	17.4	16.7	-71.86	599.8	-297.7	849.6	822.3	27.27	31.155	
5,800.0	5,732.1	5,771.9	5,727.5	17.4	16.7	-71.86	599.8	-297.7	849.6	822.3	27.28	31.147	
5,890.0	5,822.1	5,861.9	5,817.5	17.4	16.7	-71.86	599.8	-297.7	849.6	822.2	27.40	31.009	
5,900.0	5,832.1	5,871.9	5,827.5	17.4	16.7	-71.86	599.8	-297.7	849.6	822.2	27.41	30.994	
5,985.0	5,917.1	5,956.9	5,912.5	17.5	16.8	-71.86	599.8	-297.7	849.6	822.1	27.53	30.864	
6,000.0	5,932.1	5,971.9	5,927.5	17.5	16.8	-71.86	599.8	-297.7	849.6	822.1	27.55	30.841	
6,080.0	6,012.1	6,051.9	6,007.5	17.5	16.8	-71.86	599.8	-297.7	849.6	822.0	27.66	30.720	
6,100.0	6,032.1	6,071.9	6,027.5	17.5	16.9	-71.86	599.8	-297.7	849.6	821.9	27.68	30.690	
6,175.0	6,107.1	6,146.9	6,102.5	17.6	16.9	-71.86	599.8	-297.7	849.6	821.8	27.79	30.577	
6,200.0	6,132.1	6,171.9	6,127.5	17.6	16.9	-71.86	599.8	-297.7	849.6	821.8	27.82	30.539	
6,270.0	6,202.1	6,241.9	6,197.5	17.6	17.0	-71.86	599.8	-297.7	849.6	821.7	27.92	30.435	
6,300.0	6,232.1	6,271.9	6,227.5	17.6	17.0	-71.86	599.8	-297.7	849.6	821.7	27.96	30.390	
6,365.0	6,297.1	6,336.9	6,292.5	17.7	17.0	-71.86	599.8	-297.7	849.6	821.6	28.05	30.294	
6,400.0	6,332.1	6,371.9	6,327.5	17.7	17.0	-71.86	599.8	-297.7	849.6	821.5	28.09	30.242	
6,460.0	6,392.1	6,431.9	6,387.5	17.7	17.1	-71.86	599.8	-297.7	849.6	821.4	28.18	30.154	
6,500.0	6,432.1	6,471.9	6,427.5	17.7	17.1	-71.86	599.8	-297.7	849.6	821.4	28.23	30.095	
6,555.0	6,487.1	6,526.9	6,482.5	17.8	17.1	-71.86	599.8	-297.7	849.6	821.3	28.31	30.015	
6,600.0	6,532.1	6,571.9	6,527.5	17.8	17.2	-71.86	599.8	-297.7	849.6	821.3	28.37	29.950	
6,650.0	6,582.1	6,621.9	6,577.5	17.8	17.2	-71.86	599.8	-297.7	849.6	821.2	28.44	29.877	
6,700.0	6,632.1	6,671.9	6,627.5	17.8	17.2	-71.86	599.8	-297.7	849.6	821.1	28.51	29.805	
6,745.0	6,677.1	6,716.9	6,672.5	17.9	17.2	-71.86	599.8	-297.7	849.6	821.1	28.57	29.741	
6,800.0	6,732.1	6,771.9	6,727.5	17.9	17.3	-71.86	599.8	-297.7	849.6	821.0	28.64	29.662	
6,840.0	6,772.1	6,811.9	6,767.5	17.9	17.3	-71.86	599.8	-297.7	849.6	820.9	28.70	29.605	
6,900.0	6,832.1	6,871.9	6,827.5	17.9	17.3	-71.86	599.8	-297.7	849.6	820.8	28.78	29.519	
6,935.0	6,867.1	6,906.9	6,862.5	18.0	17.4	-71.86	599.8	-297.7	849.6	820.8	28.83	29.470	
7,000.0	6,932.1	6,971.9	6,927.5	18.0	17.4	-71.86	599.8	-297.7	849.6	820.7	28.92	29.378	
7,030.0	6,962.1	7,001.9	6,957.5	18.0	17.4	-71.86	599.8	-297.7	849.6	820.7	28.96	29.336	
7,100.0	7,032.1	7,071.9	7,027.5	18.1	17.5	-71.86	599.8	-297.7	849.6	820.6	29.06	29.238	
7,125.0	7,057.1	7,096.9	7,052.5	18.1	17.5	-71.86	599.8	-297.7	849.6	820.5	29.09	29.203	
7,200.0	7,132.1	7,171.9	7,127.5	18.1	17.5	-71.86	599.8	-297.7	849.6	820.4	29.20	29.099	
7,220.0	7,152.1	7,191.9	7,147.5	18.1	17.5	-71.86	599.8	-297.7	849.6	820.4	29.23	29.071	
7,300.0	7,232.1	7,271.9	7,227.5	18.2	17.6	-71.86	599.8	-297.7	849.6	820.3	29.34	28.961	
7,315.0	7,247.1	7,286.9	7,242.5	18.2	17.6	-71.86	599.8	-297.7	849.6	820.3	29.36	28.940	
7,400.0	7,332.1	7,371.9	7,327.5	18.2	17.6	-71.86	599.8	-297.7	849.6	820.1	29.48	28.824	
7,410.0	7,342.1	7,381.9	7,337.5	18.2	17.7	-71.86	599.8	-297.7	849.6	820.1	29.49	28.810	
7,500.0	7,432.1	7,471.9	7,427.5	18.3	17.7	-71.86	599.8	-297.7	849.6	820.0	29.62	28.688	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft	
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	
7,505.0	7,437.1	7,476.9	7,432.5	18.3	17.7	-71.86	599.8	-297.7	849.6	820.0	29.62	28.681		
7,600.0	7,532.1	7,571.9	7,527.5	18.3	17.8	-71.86	599.8	-297.7	849.6	819.9	29.76	28.553		
7,695.0	7,627.1	7,666.9	7,622.5	18.4	17.8	-71.86	599.8	-297.7	849.6	819.7	29.89	28.426		
7,700.0	7,632.1	7,671.9	7,627.5	18.4	17.8	-71.86	599.8	-297.7	849.6	819.7	29.90	28.419		
7,790.0	7,722.1	7,761.9	7,717.5	18.4	17.9	-71.86	599.8	-297.7	849.6	819.6	30.02	28.300		
7,800.0	7,732.1	7,771.9	7,727.5	18.4	17.9	-71.86	599.8	-297.7	849.6	819.6	30.04	28.287		
7,885.0	7,817.1	7,856.9	7,812.5	18.5	17.9	-71.86	599.8	-297.7	849.6	819.5	30.16	28.175		
7,900.0	7,832.1	7,871.9	7,827.5	18.5	18.0	-71.86	599.8	-297.7	849.6	819.4	30.18	28.155		
7,980.0	7,912.1	7,951.9	7,907.5	18.6	18.0	-71.86	599.8	-297.7	849.6	819.3	30.29	28.050		
8,000.0	7,932.1	7,971.9	7,927.5	18.6	18.0	-71.86	599.8	-297.7	849.6	819.3	30.32	28.024		
8,075.0	8,007.1	8,046.9	8,002.5	18.6	18.1	-71.86	599.8	-297.7	849.6	819.2	30.42	27.927		
8,100.0	8,032.1	8,071.9	8,027.5	18.6	18.1	-71.86	599.8	-297.7	849.6	819.2	30.46	27.894		
8,170.0	8,102.1	8,141.9	8,097.5	18.7	18.1	-71.86	599.8	-297.7	849.6	819.1	30.56	27.804		
8,200.0	8,132.1	8,171.9	8,127.5	18.7	18.1	-71.86	599.8	-297.7	849.6	819.0	30.60	27.766		
8,265.0	8,197.1	8,236.9	8,192.5	18.7	18.2	-71.86	599.8	-297.7	849.6	818.9	30.69	27.682		
8,300.0	8,232.1	8,271.9	8,227.5	18.7	18.2	-71.86	599.8	-297.7	849.6	818.9	30.74	27.638		
8,360.0	8,292.1	8,331.9	8,287.5	18.8	18.2	-71.86	599.8	-297.7	849.6	818.8	30.83	27.562		
8,400.0	8,332.1	8,371.9	8,327.5	18.8	18.3	-71.86	599.8	-297.7	849.6	818.7	30.88	27.511		
8,455.0	8,387.1	8,426.9	8,382.5	18.8	18.3	-71.86	599.8	-297.7	849.6	818.7	30.95	27.452		
8,485.9	8,418.0	8,457.8	8,413.4	18.8	18.3	-71.86	599.8	-297.7	849.6	818.6	30.99	27.418		
8,500.0	8,432.1	8,471.9	8,427.5	18.8	18.3	113.29	599.8	-297.7	849.7	818.7	31.00	27.411		
8,550.0	8,482.0	8,521.7	8,477.4	18.9	18.4	113.38	599.8	-297.7	851.0	820.0	31.05	27.407		
8,600.0	8,531.4	8,571.1	8,526.8	18.9	18.4	113.56	599.8	-297.7	854.2	823.1	31.10	27.461		
8,645.0	8,575.1	8,614.8	8,570.5	18.9	18.4	113.80	599.8	-297.7	858.5	827.4	31.15	27.562		
8,650.0	8,579.9	8,619.6	8,575.3	18.9	18.4	113.83	599.8	-297.7	859.1	828.0	31.15	27.576		
8,700.0	8,627.2	8,666.9	8,622.6	18.9	18.5	114.13	599.8	-297.7	866.0	834.8	31.20	27.754		
8,740.0	8,663.9	8,703.6	8,659.3	18.9	18.5	114.37	599.8	-297.7	873.0	841.8	31.24	27.943		
8,750.0	8,672.9	8,712.6	8,668.3	19.0	18.5	114.42	599.8	-297.7	875.0	843.7	31.25	27.997		
8,800.0	8,716.6	8,756.4	8,712.0	19.0	18.5	114.66	599.8	-297.7	886.2	854.9	31.30	28.308		
8,835.0	8,745.9	8,785.7	8,741.3	19.0	18.5	114.76	599.8	-297.7	895.4	864.1	31.34	28.568		
8,850.0	8,758.1	8,797.9	8,753.5	19.0	18.5	114.79	599.8	-297.7	899.7	868.4	31.36	28.690		
8,900.0	8,797.0	8,836.8	8,792.4	19.1	18.6	114.73	599.8	-297.7	915.7	884.3	31.42	29.146		
8,930.0	8,819.0	8,858.7	8,814.4	19.1	18.6	114.57	599.8	-297.7	926.6	895.1	31.46	29.455		
8,950.0	8,833.0	8,872.8	8,828.4	19.1	18.6	114.42	599.8	-297.7	934.3	902.9	31.48	29.677		
9,000.0	8,865.9	8,905.6	8,861.3	19.1	18.6	113.79	599.8	-297.7	955.6	924.0	31.56	30.282		
9,025.0	8,881.0	8,920.8	8,876.4	19.2	18.6	113.33	599.8	-297.7	967.2	935.6	31.59	30.613		
9,050.0	8,895.3	8,935.1	8,890.7	19.2	18.6	112.76	599.8	-297.7	979.4	947.8	31.63	30.963		
9,100.0	8,921.1	8,960.9	8,916.5	19.2	18.6	111.27	599.8	-297.7	1,005.9	974.2	31.72	31.715		
9,120.0	8,930.4	8,970.1	8,925.8	19.3	18.7	110.52	599.8	-297.7	1,017.2	985.4	31.75	32.036		
9,150.0	8,943.1	8,982.9	8,938.5	19.3	18.7	109.21	599.8	-297.7	1,034.8	1,003.0	31.80	32.538		
9,200.0	8,961.1	9,000.9	8,956.5	19.3	18.7	106.53	599.8	-297.7	1,066.0	1,034.1	31.89	33.425		
9,215.0	8,965.7	9,005.4	8,961.1	19.4	18.7	105.58	599.8	-297.7	1,075.8	1,043.9	31.92	33.704		
9,250.0	8,975.0	9,014.7	8,970.4	19.4	18.7	103.12	599.8	-297.7	1,099.3	1,067.3	31.98	34.373		
9,300.0	8,984.6	9,024.3	8,980.0	19.5	18.7	98.96	599.8	-297.7	1,134.4	1,102.3	32.07	35.375		
9,310.0	8,986.0	9,025.7	8,981.4	19.5	18.7	98.03	599.8	-297.7	1,141.6	1,109.5	32.08	35.582		
9,350.0	8,989.9	9,029.6	8,985.3	19.5	18.7	94.01	599.8	-297.7	1,170.9	1,138.8	32.15	36.424		
9,385.7	8,991.0	10,411.8	9,786.1	19.6	19.9	132.87	-227.5	-304.5	1,178.6	1,142.9	35.61	33.100		
9,400.0	8,991.0	10,426.0	9,786.1	19.6	19.9	132.81	-241.8	-304.7	1,179.6	1,143.9	35.66	33.076		
9,405.0	8,991.0	10,431.0	9,786.1	19.6	19.9	132.79	-246.7	-304.7	1,179.9	1,144.2	35.68	33.066		
9,500.0	8,991.1	10,525.7	9,786.2	19.8	20.0	132.49	-341.5	-305.5	1,185.1	1,149.0	36.11	32.820		
9,595.0	8,991.1	10,620.7	9,786.2	19.9	20.0	132.32	-436.4	-306.3	1,188.1	1,151.5	36.60	32.458		

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,600.0	8,991.1	10,625.7	9,786.2	19.9	20.0	132.32	-441.4	-306.3	1,188.2	1,151.5	36.63	32.436	
9,666.8	8,991.1	10,692.5	9,786.3	20.1	20.1	132.28	-508.2	-306.9	1,188.7	1,151.7	37.00	32.126	
9,690.0	8,991.1	10,715.6	9,786.3	20.1	20.1	132.28	-531.4	-307.1	1,188.7	1,151.6	37.14	32.009	
9,700.0	8,991.1	10,725.6	9,786.3	20.1	20.1	132.28	-541.4	-307.1	1,188.7	1,151.5	37.20	31.958	
9,785.0	8,991.2	10,810.6	9,786.3	20.3	20.2	132.28	-626.4	-307.8	1,188.7	1,151.0	37.73	31.506	
9,800.0	8,991.2	10,825.6	9,786.4	20.3	20.2	132.28	-641.4	-308.0	1,188.7	1,150.9	37.83	31.425	
9,880.0	8,991.2	10,905.6	9,786.4	20.5	20.3	132.28	-721.4	-308.6	1,188.7	1,150.4	38.37	30.981	
9,900.0	8,991.2	10,925.6	9,786.4	20.6	20.3	132.28	-741.4	-308.8	1,188.7	1,150.2	38.51	30.869	
9,975.0	8,991.3	11,000.6	9,786.4	20.7	20.4	132.28	-816.4	-309.4	1,188.7	1,149.7	39.05	30.439	
10,000.0	8,991.3	11,025.6	9,786.5	20.8	20.4	132.28	-841.4	-309.6	1,188.7	1,149.5	39.24	30.294	
10,070.0	8,991.3	11,095.6	9,786.5	21.0	20.5	132.28	-911.4	-310.2	1,188.8	1,149.0	39.78	29.882	
10,100.0	8,991.3	11,125.6	9,786.5	21.1	20.6	132.28	-941.4	-310.5	1,188.8	1,148.7	40.02	29.705	
10,165.0	8,991.4	11,190.6	9,786.5	21.3	20.7	132.28	-1,006.4	-311.0	1,188.8	1,148.2	40.55	29.317	
10,200.0	8,991.4	11,225.6	9,786.6	21.4	20.7	132.28	-1,041.4	-311.3	1,188.8	1,147.9	40.84	29.108	
10,260.0	8,991.4	11,285.6	9,786.6	21.5	20.9	132.28	-1,101.3	-311.8	1,188.8	1,147.4	41.35	28.746	
10,300.0	8,991.4	11,325.6	9,786.6	21.7	20.9	132.28	-1,141.3	-312.1	1,188.8	1,147.1	41.70	28.506	
10,355.0	8,991.5	11,380.6	9,786.6	21.8	21.1	132.28	-1,196.3	-312.6	1,188.8	1,146.6	42.20	28.173	
10,400.0	8,991.5	11,425.6	9,786.7	22.0	21.2	132.28	-1,241.3	-312.9	1,188.8	1,146.2	42.60	27.903	
10,450.0	8,991.5	11,475.6	9,786.7	22.2	21.3	132.28	-1,291.3	-313.4	1,188.8	1,145.7	43.07	27.601	
10,500.0	8,991.5	11,525.6	9,786.7	22.3	21.4	132.28	-1,341.3	-313.8	1,188.8	1,145.2	43.54	27.303	
10,545.0	8,991.5	11,570.6	9,786.7	22.5	21.6	132.28	-1,386.3	-314.1	1,188.8	1,144.8	43.98	27.032	
10,600.0	8,991.6	11,625.6	9,786.8	22.7	21.7	132.28	-1,441.3	-314.6	1,188.8	1,144.3	44.51	26.707	
10,640.0	8,991.6	11,665.6	9,786.8	22.9	21.9	132.28	-1,481.3	-314.9	1,188.8	1,143.9	44.91	26.469	
10,700.0	8,991.6	11,725.6	9,786.8	23.1	22.1	132.28	-1,541.3	-315.4	1,188.8	1,143.3	45.52	26.118	
10,735.0	8,991.6	11,760.6	9,786.8	23.3	22.2	132.28	-1,576.3	-315.7	1,188.8	1,142.9	45.88	25.913	
10,800.0	8,991.7	11,825.6	9,786.9	23.5	22.5	132.28	-1,641.3	-316.3	1,188.8	1,142.2	46.55	25.539	
10,830.0	8,991.7	11,855.6	9,786.9	23.7	22.6	132.28	-1,671.3	-316.5	1,188.8	1,141.9	46.87	25.366	
10,900.0	8,991.7	11,925.6	9,786.9	24.0	22.9	132.28	-1,741.3	-317.1	1,188.8	1,141.2	47.61	24.970	
10,925.0	8,991.7	11,950.6	9,786.9	24.1	23.0	132.28	-1,766.3	-317.3	1,188.8	1,140.9	47.88	24.828	
11,000.0	8,991.8	12,025.6	9,787.0	24.4	23.4	132.28	-1,841.3	-317.9	1,188.8	1,140.1	48.70	24.412	
11,020.0	8,991.8	12,045.6	9,787.0	24.5	23.4	132.28	-1,861.3	-318.1	1,188.8	1,139.9	48.92	24.302	
11,100.0	8,991.8	12,125.6	9,787.0	24.9	23.8	132.28	-1,941.3	-318.7	1,188.8	1,139.0	49.81	23.868	
11,115.0	8,991.8	12,140.6	9,787.0	24.9	23.9	132.28	-1,956.3	-318.9	1,188.8	1,138.8	49.98	23.787	
11,200.0	8,991.8	12,225.6	9,787.1	25.4	24.4	132.28	-2,041.3	-319.6	1,188.8	1,137.9	50.94	23.336	
11,210.0	8,991.9	12,235.6	9,787.1	25.4	24.4	132.28	-2,051.3	-319.6	1,188.8	1,137.8	51.06	23.284	
11,300.0	8,991.9	12,325.6	9,787.1	25.8	24.9	132.28	-2,141.3	-320.4	1,188.8	1,136.7	52.10	22.819	
11,305.0	8,991.9	12,330.6	9,787.1	25.9	24.9	132.28	-2,146.3	-320.4	1,188.8	1,136.7	52.16	22.793	
11,400.0	8,991.9	12,425.6	9,787.2	26.4	25.4	132.28	-2,241.3	-321.2	1,188.8	1,135.6	53.27	22.315	
11,495.0	8,992.0	12,520.6	9,787.2	26.9	26.0	132.28	-2,336.3	-322.0	1,188.8	1,134.4	54.41	21.850	
11,500.0	8,992.0	12,525.6	9,787.2	26.9	26.0	132.28	-2,341.3	-322.0	1,188.8	1,134.4	54.47	21.826	
11,590.0	8,992.0	12,615.6	9,787.3	27.4	26.5	132.28	-2,431.3	-322.8	1,188.8	1,133.3	55.56	21.398	
11,600.0	8,992.0	12,625.6	9,787.3	27.4	26.6	132.28	-2,441.3	-322.9	1,188.8	1,133.2	55.68	21.351	
11,685.0	8,992.1	12,710.6	9,787.3	27.9	27.1	132.28	-2,526.3	-323.6	1,188.8	1,132.1	56.72	20.959	
11,700.0	8,992.1	12,725.6	9,787.3	28.0	27.2	132.28	-2,541.3	-323.7	1,188.8	1,131.9	56.91	20.891	
11,780.0	8,992.1	12,805.6	9,787.4	28.4	27.7	132.28	-2,621.3	-324.4	1,188.9	1,130.9	57.90	20.532	
11,800.0	8,992.1	12,825.6	9,787.4	28.5	27.8	132.28	-2,641.3	-324.5	1,188.9	1,130.7	58.15	20.444	
11,875.0	8,992.2	12,900.6	9,787.4	29.0	28.3	132.28	-2,716.3	-325.1	1,188.9	1,129.8	59.09	20.119	
11,900.0	8,992.2	12,925.6	9,787.5	29.1	28.4	132.28	-2,741.3	-325.4	1,188.9	1,129.4	59.41	20.012	
11,970.0	8,992.2	12,995.6	9,787.5	29.5	28.9	132.28	-2,811.3	-325.9	1,188.9	1,128.6	60.30	19.717	
12,000.0	8,992.2	13,025.6	9,787.5	29.7	29.1	132.28	-2,841.3	-326.2	1,188.9	1,128.2	60.68	19.593	
12,065.0	8,992.2	13,090.6	9,787.5	30.1	29.5	132.28	-2,906.3	-326.7	1,188.9	1,127.4	61.51	19.327	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
12,100.0	8,992.3	13,125.6	9,787.6	30.3	29.7	132.28	-2,941.3	-327.0	1,188.9	1,126.9	61.96	19.187		
12,160.0	8,992.3	13,185.6	9,787.6	30.6	30.1	132.28	-3,001.3	-327.5	1,188.9	1,126.1	62.74	18.949		
12,200.0	8,992.3	13,225.6	9,787.6	30.9	30.4	132.28	-3,041.3	-327.8	1,188.9	1,125.6	63.26	18.794		
12,255.0	8,992.3	13,280.6	9,787.6	31.2	30.7	132.29	-3,096.3	-328.3	1,188.9	1,124.9	63.98	18.583		
12,300.0	8,992.4	13,325.6	9,787.7	31.5	31.0	132.29	-3,141.3	-328.7	1,188.9	1,124.3	64.56	18.414		
12,350.0	8,992.4	13,375.6	9,787.7	31.8	31.3	132.29	-3,191.3	-329.1	1,188.9	1,123.7	65.22	18.228		
12,400.0	8,992.4	13,425.6	9,787.7	32.1	31.7	132.29	-3,241.3	-329.5	1,188.9	1,123.0	65.88	18.046		
12,445.0	8,992.4	13,470.6	9,787.7	32.4	32.0	132.29	-3,286.3	-329.9	1,188.9	1,122.4	66.48	17.884		
12,500.0	8,992.5	13,525.6	9,787.8	32.7	32.3	132.29	-3,341.3	-330.3	1,188.9	1,121.7	67.21	17.690		
12,540.0	8,992.5	13,565.6	9,787.8	33.0	32.6	132.29	-3,381.3	-330.7	1,188.9	1,121.2	67.74	17.550		
12,600.0	8,992.5	13,625.6	9,787.8	33.3	33.0	132.29	-3,441.3	-331.1	1,188.9	1,120.4	68.55	17.345		
12,635.0	8,992.5	13,660.6	9,787.8	33.6	33.3	132.29	-3,476.3	-331.4	1,188.9	1,119.9	69.02	17.227		
12,700.0	8,992.5	13,725.6	9,787.9	34.0	33.7	132.29	-3,541.3	-332.0	1,188.9	1,119.0	69.89	17.011		
12,730.0	8,992.6	13,755.6	9,787.9	34.2	33.9	132.29	-3,571.3	-332.2	1,188.9	1,118.6	70.30	16.913		
12,800.0	8,992.6	13,825.6	9,787.9	34.6	34.4	132.29	-3,641.3	-332.8	1,188.9	1,117.7	71.24	16.688		
12,825.0	8,992.6	13,850.6	9,787.9	34.8	34.5	132.29	-3,666.3	-333.0	1,188.9	1,117.3	71.58	16.609		
12,900.0	8,992.6	13,925.6	9,788.0	35.3	35.1	132.29	-3,741.3	-333.6	1,188.9	1,116.3	72.60	16.375		
12,920.0	8,992.6	13,945.6	9,788.0	35.4	35.2	132.29	-3,761.3	-333.8	1,188.9	1,116.0	72.88	16.314		
13,000.0	8,992.7	14,025.6	9,788.0	35.9	35.7	132.29	-3,841.3	-334.5	1,188.9	1,114.9	73.97	16.072		
13,015.0	8,992.7	14,040.6	9,788.0	36.0	35.8	132.29	-3,856.3	-334.6	1,188.9	1,114.7	74.18	16.028		
13,100.0	8,992.7	14,125.6	9,788.1	36.6	36.4	132.29	-3,941.3	-335.3	1,188.9	1,113.6	75.35	15.779		
13,110.0	8,992.7	14,135.6	9,788.1	36.6	36.5	132.29	-3,951.3	-335.4	1,188.9	1,113.4	75.49	15.750		
13,200.0	8,992.8	14,225.6	9,788.1	37.2	37.1	132.29	-4,041.2	-336.1	1,188.9	1,112.2	76.73	15.495		
13,205.0	8,992.8	14,230.6	9,788.1	37.3	37.2	132.29	-4,046.2	-336.2	1,188.9	1,112.1	76.80	15.481		
13,300.0	8,992.8	14,325.6	9,788.2	37.9	37.8	132.29	-4,141.2	-336.9	1,188.9	1,110.8	78.12	15.220		
13,395.0	8,992.9	14,420.6	9,788.2	38.5	38.5	132.29	-4,236.2	-337.7	1,188.9	1,109.5	79.44	14.966		
13,400.0	8,992.9	14,425.6	9,788.2	38.6	38.5	132.29	-4,241.2	-337.8	1,188.9	1,109.4	79.51	14.953		
13,490.0	8,992.9	14,515.6	9,788.3	39.2	39.2	132.29	-4,331.2	-338.5	1,188.9	1,108.2	80.77	14.720		
13,500.0	8,992.9	14,525.6	9,788.3	39.2	39.2	132.29	-4,341.2	-338.6	1,188.9	1,108.0	80.91	14.694		
13,585.0	8,993.0	14,610.6	9,788.3	39.8	39.8	132.29	-4,426.2	-339.3	1,189.0	1,106.8	82.11	14.481		
13,600.0	8,993.0	14,625.6	9,788.3	39.9	39.9	132.29	-4,441.2	-339.4	1,189.0	1,106.6	82.32	14.443		
13,680.0	8,993.0	14,705.6	9,788.4	40.5	40.5	132.29	-4,521.2	-340.1	1,189.0	1,105.5	83.45	14.248		
13,700.0	8,993.0	14,725.6	9,788.4	40.6	40.6	132.29	-4,541.2	-340.3	1,189.0	1,105.2	83.73	14.200		
13,775.0	8,993.0	14,800.6	9,788.4	41.1	41.2	132.29	-4,616.2	-340.9	1,189.0	1,104.2	84.79	14.023		
13,800.0	8,993.1	14,825.6	9,788.4	41.3	41.4	132.29	-4,641.2	-341.1	1,189.0	1,103.8	85.14	13.964		
13,870.0	8,993.1	14,895.6	9,788.5	41.8	41.9	132.29	-4,711.2	-341.7	1,189.0	1,102.8	86.14	13.803		
13,900.0	8,993.1	14,925.6	9,788.5	42.0	42.1	132.29	-4,741.2	-341.9	1,189.0	1,102.4	86.56	13.735		
13,965.0	8,993.1	14,990.6	9,788.5	42.4	42.5	132.29	-4,806.2	-342.4	1,189.0	1,101.5	87.49	13.590		
14,000.0	8,993.2	15,025.6	9,788.6	42.6	42.8	132.29	-4,841.2	-342.7	1,189.0	1,101.0	87.99	13.513		
14,060.0	8,993.2	15,085.6	9,788.6	43.1	43.2	132.29	-4,901.2	-343.2	1,189.0	1,100.1	88.84	13.383		
14,100.0	8,993.2	15,125.6	9,788.6	43.3	43.5	132.29	-4,941.2	-343.6	1,189.0	1,099.6	89.42	13.297		
14,155.0	8,993.2	15,180.6	9,788.6	43.7	43.9	132.29	-4,996.2	-344.0	1,189.0	1,098.8	90.20	13.181		
14,200.0	8,993.2	15,225.6	9,788.7	44.0	44.2	132.29	-5,041.2	-344.4	1,189.0	1,098.1	90.85	13.088		
14,250.0	8,993.3	15,275.6	9,788.7	44.4	44.6	132.29	-5,091.2	-344.8	1,189.0	1,097.4	91.56	12.985		
14,300.0	8,993.3	15,325.6	9,788.7	44.7	44.9	132.29	-5,141.2	-345.2	1,189.0	1,096.7	92.28	12.884		
14,345.0	8,993.3	15,370.6	9,788.7	45.0	45.3	132.29	-5,186.2	-345.6	1,189.0	1,096.1	92.93	12.794		
14,400.0	8,993.3	15,425.6	9,788.8	45.4	45.7	132.29	-5,241.2	-346.0	1,189.0	1,095.3	93.72	12.686		
14,440.0	8,993.4	15,465.6	9,788.8	45.7	46.0	132.29	-5,281.2	-346.4	1,189.0	1,094.7	94.30	12.609		
14,500.0	8,993.4	15,525.6	9,788.8	46.1	46.4	132.29	-5,341.2	-346.9	1,189.0	1,093.8	95.17	12.494		
14,535.0	8,993.4	15,560.6	9,788.8	46.4	46.6	132.29	-5,376.2	-347.2	1,189.0	1,093.3	95.67	12.428		
14,600.0	8,993.4	15,625.6	9,788.9	46.8	47.1	132.29	-5,441.2	-347.7	1,189.0	1,092.4	96.61	12.307		

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Reference	Offset	Highside Toolface	Offset Wellbore Centre	Distance	Between Centres	Between Ellipses	Minimum Separation	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	(°)	+N/-S (usft)	+E/-W (usft)	(usft)	(usft)	(usft)		
14,630.0	8,993.4	15,655.6	9,788.9	47.0	47.3	132.29	-5,471.2	-348.0	1,189.0	1,092.0	97.05	12.252	
14,700.0	8,993.5	15,725.6	9,788.9	47.5	47.8	132.29	-5,541.2	-348.5	1,189.0	1,091.0	98.06	12.125	
14,725.0	8,993.5	15,750.6	9,788.9	47.7	48.0	132.29	-5,566.2	-348.7	1,189.0	1,090.6	98.42	12.081	
14,800.0	8,993.5	15,825.6	9,789.0	48.2	48.6	132.29	-5,641.2	-349.4	1,189.0	1,089.5	99.51	11.948	
14,820.0	8,993.5	15,845.6	9,789.0	48.4	48.7	132.29	-5,661.2	-349.5	1,189.0	1,089.2	99.80	11.914	
14,900.0	8,993.6	15,925.6	9,789.0	48.9	49.3	132.29	-5,741.2	-350.2	1,189.0	1,088.1	100.97	11.776	
14,915.0	8,993.6	15,940.6	9,789.0	49.1	49.4	132.29	-5,756.2	-350.3	1,189.0	1,087.8	101.19	11.751	
15,000.0	8,993.6	16,025.6	9,789.1	49.7	50.0	132.29	-5,841.2	-351.0	1,189.0	1,086.6	102.43	11.609	
15,010.0	8,993.6	16,035.6	9,789.1	49.7	50.1	132.29	-5,851.2	-351.1	1,189.0	1,086.5	102.57	11.592	
15,100.0	8,993.7	16,125.6	9,789.1	50.4	50.7	132.29	-5,941.2	-351.8	1,189.0	1,085.2	103.89	11.446	
15,105.0	8,993.7	16,130.6	9,789.1	50.4	50.8	132.29	-5,946.2	-351.9	1,189.0	1,085.1	103.96	11.437	
15,200.0	8,993.7	16,225.6	9,789.2	51.1	51.5	132.29	-6,041.2	-352.7	1,189.0	1,083.7	105.35	11.287	
15,295.0	8,993.8	16,320.6	9,789.2	51.8	52.2	132.29	-6,136.2	-353.5	1,189.1	1,082.3	106.74	11.139	
15,300.0	8,993.8	16,325.6	9,789.2	51.8	52.2	132.29	-6,141.2	-353.5	1,189.1	1,082.2	106.82	11.132	
15,390.0	8,993.8	16,415.6	9,789.3	52.4	52.9	132.29	-6,231.2	-354.2	1,189.1	1,080.9	108.14	10.996	
15,400.0	8,993.8	16,425.6	9,789.3	52.5	52.9	132.29	-6,241.2	-354.3	1,189.1	1,080.8	108.28	10.981	
15,485.0	8,993.8	16,510.6	9,789.3	53.1	53.6	132.29	-6,326.2	-355.0	1,189.1	1,079.5	109.53	10.856	
15,500.0	8,993.8	16,525.6	9,789.3	53.2	53.7	132.29	-6,341.2	-355.2	1,189.1	1,079.3	109.75	10.834	
15,580.0	8,993.9	16,605.6	9,789.4	53.8	54.3	132.29	-6,421.2	-355.8	1,189.1	1,078.1	110.93	10.719	
15,600.0	8,993.9	16,625.6	9,789.4	54.0	54.4	132.29	-6,441.2	-356.0	1,189.1	1,077.8	111.23	10.691	
15,675.0	8,993.9	16,700.6	9,789.4	54.5	55.0	132.29	-6,516.2	-356.6	1,189.1	1,076.7	112.33	10.585	
15,700.0	8,993.9	16,725.6	9,789.4	54.7	55.1	132.29	-6,541.2	-356.8	1,189.1	1,076.4	112.70	10.551	
15,770.0	8,994.0	16,795.6	9,789.5	55.2	55.7	132.29	-6,611.2	-357.4	1,189.1	1,075.3	113.73	10.455	
15,800.0	8,994.0	16,825.6	9,789.5	55.4	55.9	132.29	-6,641.2	-357.6	1,189.1	1,074.9	114.18	10.414	
15,865.0	8,994.0	16,890.6	9,789.5	55.9	56.4	132.29	-6,706.2	-358.2	1,189.1	1,073.9	115.14	10.328	
15,900.0	8,994.0	16,925.6	9,789.5	56.1	56.6	132.29	-6,741.2	-358.5	1,189.1	1,073.4	115.65	10.281	
15,960.0	8,994.1	16,985.6	9,789.6	56.6	57.1	132.29	-6,801.2	-359.0	1,189.1	1,072.5	116.54	10.203	
16,000.0	8,994.1	17,025.6	9,789.6	56.8	57.4	132.29	-6,841.2	-359.3	1,189.1	1,072.0	117.13	10.152	
16,055.0	8,994.1	17,080.6	9,789.6	57.2	57.8	132.29	-6,896.2	-359.7	1,189.1	1,071.1	117.95	10.081	
16,100.0	8,994.1	17,125.6	9,789.7	57.6	58.1	132.29	-6,941.1	-360.1	1,189.1	1,070.5	118.62	10.025	
16,150.0	8,994.2	17,175.6	9,789.7	57.9	58.5	132.29	-6,991.1	-360.5	1,189.1	1,069.7	119.36	9.963	
16,200.0	8,994.2	17,225.6	9,789.7	58.3	58.8	132.29	-7,041.1	-360.9	1,189.1	1,069.0	120.10	9.901	
16,245.0	8,994.2	17,270.6	9,789.7	58.6	59.2	132.29	-7,086.1	-361.3	1,189.1	1,068.3	120.77	9.846	
16,300.0	8,994.2	17,325.6	9,789.8	59.0	59.6	132.29	-7,141.1	-361.8	1,189.1	1,067.5	121.58	9.780	
16,340.0	8,994.2	17,365.6	9,789.8	59.3	59.9	132.29	-7,181.1	-362.1	1,189.1	1,066.9	122.18	9.733	
16,400.0	8,994.3	17,425.6	9,789.8	59.7	60.3	132.29	-7,241.1	-362.6	1,189.1	1,066.0	123.07	9.662	
16,435.0	8,994.3	17,460.6	9,789.8	60.0	60.6	132.29	-7,276.1	-362.9	1,189.1	1,065.5	123.59	9.621	
16,500.0	8,994.3	17,525.6	9,789.9	60.5	61.1	132.29	-7,341.1	-363.4	1,189.1	1,064.6	124.56	9.547	
16,530.0	8,994.3	17,555.6	9,789.9	60.7	61.3	132.29	-7,371.1	-363.7	1,189.1	1,064.1	125.00	9.513	
16,600.0	8,994.4	17,625.6	9,789.9	61.2	61.8	132.29	-7,441.1	-364.3	1,189.1	1,063.1	126.05	9.434	
16,625.0	8,994.4	17,650.6	9,789.9	61.4	62.0	132.29	-7,466.1	-364.5	1,189.1	1,062.7	126.42	9.406	
16,700.0	8,994.4	17,725.6	9,790.0	61.9	62.5	132.29	-7,541.1	-365.1	1,189.1	1,061.6	127.54	9.324	
16,720.0	8,994.4	17,745.6	9,790.0	62.1	62.7	132.29	-7,561.1	-365.3	1,189.1	1,061.3	127.84	9.302	
16,800.0	8,994.5	17,825.6	9,790.0	62.7	63.3	132.29	-7,641.1	-365.9	1,189.1	1,060.1	129.03	9.216	
16,815.0	8,994.5	17,840.6	9,790.0	62.8	63.4	132.29	-7,656.1	-366.0	1,189.1	1,059.9	129.25	9.200	
16,900.0	8,994.5	17,925.6	9,790.1	63.4	64.0	132.29	-7,741.1	-366.7	1,189.1	1,058.6	130.52	9.110	
16,910.0	8,994.5	17,935.6	9,790.1	63.5	64.1	132.29	-7,751.1	-366.8	1,189.1	1,058.5	130.67	9.100	
17,000.0	8,994.5	18,025.6	9,790.1	64.1	64.8	132.29	-7,841.1	-367.6	1,189.1	1,057.1	132.02	9.007	
17,005.0	8,994.6	18,030.6	9,790.1	64.2	64.8	132.29	-7,846.1	-367.6	1,189.1	1,057.1	132.09	9.002	
17,100.0	8,994.6	18,125.6	9,790.2	64.9	65.5	132.29	-7,941.1	-368.4	1,189.2	1,055.6	133.52	8.906	
17,195.0	8,994.6	18,220.6	9,790.2	65.6	66.2	132.29	-8,036.1	-369.2	1,189.2	1,054.2	134.94	8.813	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1												Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS												Offset Well Error: 3.0 usft	
Reference Offset				Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
17,200.0	8,994.6	18,225.6	9,790.2	65.6	66.3	132.29	-8,041.1	-369.2	1,189.2	1,054.1	135.01	8.808	
17,290.0	8,994.7	18,315.6	9,790.3	66.3	66.9	132.29	-8,131.1	-370.0	1,189.2	1,052.8	136.36	8.721	
17,300.0	8,994.7	18,325.6	9,790.3	66.3	67.0	132.29	-8,141.1	-370.1	1,189.2	1,052.7	136.51	8.711	
17,385.0	8,994.7	18,410.6	9,790.3	67.0	67.6	132.29	-8,226.1	-370.8	1,189.2	1,051.4	137.79	8.631	
17,400.0	8,994.7	18,425.6	9,790.3	67.1	67.8	132.29	-8,241.1	-370.9	1,189.2	1,051.2	138.01	8.617	
17,480.0	8,994.8	18,505.6	9,790.4	67.7	68.4	132.29	-8,321.1	-371.5	1,189.2	1,050.0	139.21	8.542	
17,500.0	8,994.8	18,525.6	9,790.4	67.8	68.5	132.29	-8,341.1	-371.7	1,189.2	1,049.7	139.51	8.524	
17,575.0	8,994.8	18,600.6	9,790.4	68.4	69.1	132.29	-8,416.1	-372.3	1,189.2	1,048.5	140.64	8.456	
17,600.0	8,994.8	18,625.6	9,790.4	68.5	69.2	132.29	-8,441.1	-372.5	1,189.2	1,048.2	141.01	8.433	
17,670.0	8,994.9	18,695.6	9,790.5	69.1	69.8	132.29	-8,511.1	-373.1	1,189.2	1,047.1	142.06	8.371	
17,700.0	8,994.9	18,725.6	9,790.5	69.3	70.0	132.29	-8,541.1	-373.4	1,189.2	1,046.7	142.52	8.344	
17,765.0	8,994.9	18,790.6	9,790.5	69.8	70.5	132.29	-8,606.1	-373.9	1,189.2	1,045.7	143.49	8.287	
17,800.0	8,994.9	18,825.6	9,790.5	70.0	70.7	132.29	-8,641.1	-374.2	1,189.2	1,045.2	144.02	8.257	
17,860.0	8,994.9	18,885.6	9,790.6	70.5	71.2	132.29	-8,701.1	-374.7	1,189.2	1,044.3	144.92	8.206	
17,900.0	8,995.0	18,925.6	9,790.6	70.8	71.5	132.29	-8,741.1	-375.0	1,189.2	1,043.7	145.52	8.172	
17,955.0	8,995.0	18,980.6	9,790.6	71.2	71.9	132.29	-8,796.1	-375.5	1,189.2	1,042.9	146.35	8.126	
18,000.0	8,995.0	19,025.6	9,790.7	71.5	72.2	132.29	-8,841.1	-375.8	1,189.2	1,042.2	147.03	8.088	
18,050.0	8,995.0	19,075.6	9,790.7	71.9	72.6	132.29	-8,891.1	-376.3	1,189.2	1,041.4	147.78	8.047	
18,100.0	8,995.1	19,125.6	9,790.7	72.2	73.0	132.29	-8,941.1	-376.7	1,189.2	1,040.7	148.54	8.006	
18,145.0	8,995.1	19,170.6	9,790.7	72.6	73.3	132.29	-8,986.1	-377.0	1,189.2	1,040.0	149.21	7.970	
18,200.0	8,995.1	19,225.6	9,790.8	73.0	73.7	132.29	-9,041.1	-377.5	1,189.2	1,039.2	150.04	7.926	
18,240.0	8,995.1	19,265.6	9,790.8	73.3	74.0	132.29	-9,081.1	-377.8	1,189.2	1,038.6	150.65	7.894	
18,300.0	8,995.2	19,325.6	9,790.8	73.7	74.5	132.29	-9,141.1	-378.3	1,189.2	1,037.7	151.55	7.847	
18,335.0	8,995.2	19,360.6	9,790.8	74.0	74.7	132.29	-9,176.1	-378.6	1,189.2	1,037.1	152.08	7.820	
18,400.0	8,995.2	19,425.6	9,790.9	74.5	75.2	132.29	-9,241.1	-379.2	1,189.2	1,036.2	153.06	7.770	
18,430.0	8,995.2	19,455.6	9,790.9	74.7	75.5	132.29	-9,271.1	-379.4	1,189.2	1,035.7	153.51	7.747	
18,500.0	8,995.2	19,525.6	9,790.9	75.2	76.0	132.29	-9,341.1	-380.0	1,189.2	1,034.7	154.57	7.694	
18,525.0	8,995.3	19,550.6	9,790.9	75.4	76.2	132.29	-9,366.1	-380.2	1,189.2	1,034.3	154.95	7.675	
18,600.0	8,995.3	19,625.6	9,791.0	76.0	76.7	132.29	-9,441.1	-380.8	1,189.2	1,033.2	156.08	7.619	
18,620.0	8,995.3	19,645.6	9,791.0	76.1	76.9	132.29	-9,461.1	-381.0	1,189.2	1,032.9	156.38	7.605	
18,700.0	8,995.3	19,725.6	9,791.0	76.7	77.5	132.29	-9,541.1	-381.6	1,189.2	1,031.7	157.59	7.546	
18,715.0	8,995.3	19,740.6	9,791.0	76.8	77.6	132.29	-9,556.1	-381.8	1,189.2	1,031.4	157.82	7.536	
18,800.0	8,995.4	19,825.6	9,791.1	77.4	78.2	132.29	-9,641.1	-382.5	1,189.3	1,030.1	159.10	7.475	
18,810.0	8,995.4	19,835.6	9,791.1	77.5	78.3	132.29	-9,651.1	-382.6	1,189.3	1,030.0	159.25	7.468	
18,900.0	8,995.4	19,925.6	9,791.1	78.2	79.0	132.29	-9,741.1	-383.3	1,189.3	1,028.6	160.62	7.404	
18,905.0	8,995.4	19,930.6	9,791.1	78.2	79.0	132.29	-9,746.1	-383.3	1,189.3	1,028.6	160.69	7.401	
19,000.0	8,995.5	20,025.6	9,791.2	78.9	79.7	132.29	-9,841.0	-384.1	1,189.3	1,027.1	162.13	7.335	
19,095.0	8,995.5	20,120.6	9,791.2	79.6	80.5	132.29	-9,936.0	-384.9	1,189.3	1,025.7	163.57	7.271	
19,100.0	8,995.5	20,125.6	9,791.2	79.7	80.5	132.29	-9,941.0	-385.0	1,189.3	1,025.6	163.64	7.267	
19,190.0	8,995.6	20,215.6	9,791.3	80.3	81.2	132.29	-10,031.0	-385.7	1,189.3	1,024.3	165.01	7.207	
19,200.0	8,995.6	20,225.6	9,791.3	80.4	81.2	132.29	-10,041.0	-385.8	1,189.3	1,024.1	165.16	7.201	
19,285.0	8,995.6	20,310.6	9,791.3	81.0	81.9	132.29	-10,126.0	-386.5	1,189.3	1,022.8	166.45	7.145	
19,300.0	8,995.6	20,325.6	9,791.3	81.2	82.0	132.29	-10,141.0	-386.6	1,189.3	1,022.6	166.67	7.135	
19,380.0	8,995.7	20,405.6	9,791.4	81.8	82.6	132.29	-10,221.0	-387.3	1,189.3	1,021.4	167.89	7.084	
19,400.0	8,995.7	20,425.6	9,791.4	81.9	82.7	132.29	-10,241.0	-387.4	1,189.3	1,021.1	168.19	7.071	
19,475.0	8,995.7	20,500.6	9,791.4	82.5	83.3	132.29	-10,316.0	-388.1	1,189.3	1,020.0	169.33	7.024	
19,500.0	8,995.7	20,525.6	9,791.4	82.7	83.5	132.29	-10,341.0	-388.3	1,189.3	1,019.6	169.71	7.008	
19,570.0	8,995.7	20,595.6	9,791.5	83.2	84.0	132.29	-10,411.0	-388.8	1,189.3	1,018.5	170.77	6.964	
19,600.0	8,995.8	20,625.6	9,791.5	83.4	84.2	132.29	-10,441.0	-389.1	1,189.3	1,018.1	171.22	6.946	
19,665.0	8,995.8	20,690.6	9,791.5	83.9	84.7	132.29	-10,506.0	-389.6	1,189.3	1,017.1	172.21	6.906	
19,700.0	8,995.8	20,725.6	9,791.5	84.1	85.0	132.29	-10,541.0	-389.9	1,189.3	1,016.6	172.74	6.885	

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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1													Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft	
Reference Offset				Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
19,760.0	8,995.8	20,785.6	9,791.6	84.6	85.5	132.29	-10,601.0	-390.4	1,189.3	1,015.7	173.65	6.849		
19,800.0	8,995.9	20,825.6	9,791.6	84.9	85.8	132.29	-10,641.0	-390.7	1,189.3	1,015.0	174.26	6.825		
19,855.0	8,995.9	20,880.6	9,791.6	85.3	86.2	132.30	-10,696.0	-391.2	1,189.3	1,014.2	175.09	6.792		
19,900.0	8,995.9	20,925.6	9,791.6	85.6	86.5	132.30	-10,741.0	-391.6	1,189.3	1,013.5	175.78	6.766		
19,950.0	8,995.9	20,975.6	9,791.7	86.0	86.9	132.30	-10,791.0	-392.0	1,189.3	1,012.8	176.54	6.737		
20,000.0	8,995.9	21,025.6	9,791.7	86.4	87.3	132.30	-10,841.0	-392.4	1,189.3	1,012.0	177.30	6.708		
20,045.0	8,996.0	21,070.6	9,791.7	86.7	87.6	132.30	-10,886.0	-392.8	1,189.3	1,011.3	177.98	6.682		
20,100.0	8,996.0	21,125.6	9,791.8	87.1	88.0	132.30	-10,941.0	-393.2	1,189.3	1,010.5	178.82	6.651		
20,140.0	8,996.0	21,165.6	9,791.8	87.4	88.3	132.30	-10,981.0	-393.6	1,189.3	1,009.9	179.42	6.629		
20,200.0	8,996.0	21,225.6	9,791.8	87.9	88.8	132.30	-11,041.0	-394.1	1,189.3	1,009.0	180.34	6.595		
20,235.0	8,996.1	21,260.6	9,791.8	88.1	89.0	132.30	-11,076.0	-394.3	1,189.3	1,008.5	180.87	6.576		
20,300.0	8,996.1	21,325.6	9,791.9	88.6	89.5	132.30	-11,141.0	-394.9	1,189.3	1,007.5	181.86	6.540		
20,330.0	8,996.1	21,355.6	9,791.9	88.9	89.7	132.30	-11,171.0	-395.1	1,189.3	1,007.0	182.31	6.524		
20,400.0	8,996.1	21,425.6	9,791.9	89.4	90.3	132.30	-11,241.0	-395.7	1,189.3	1,006.0	183.38	6.486		
20,425.0	8,996.1	21,450.6	9,791.9	89.6	90.5	132.30	-11,266.0	-395.9	1,189.3	1,005.6	183.76	6.472		
20,500.0	8,996.2	21,525.6	9,792.0	90.1	91.0	132.30	-11,341.0	-396.5	1,189.3	1,004.4	184.90	6.432		
20,520.0	8,996.2	21,545.6	9,792.0	90.3	91.2	132.30	-11,361.0	-396.7	1,189.3	1,004.1	185.20	6.422		
20,600.0	8,996.2	21,625.6	9,792.0	90.9	91.8	132.30	-11,441.0	-397.4	1,189.4	1,002.9	186.42	6.380		
20,615.0	8,996.2	21,640.6	9,792.0	91.0	91.9	132.30	-11,456.0	-397.5	1,189.4	1,002.7	186.65	6.372		
20,700.0	8,996.3	21,725.6	9,792.1	91.6	92.5	132.30	-11,541.0	-398.2	1,189.4	1,001.4	187.94	6.328		
20,710.0	8,996.3	21,735.6	9,792.1	91.7	92.6	132.30	-11,551.0	-398.3	1,189.4	1,001.3	188.10	6.323		
20,800.0	8,996.3	21,825.6	9,792.1	92.4	93.3	132.30	-11,641.0	-399.0	1,189.4	999.9	189.47	6.277		
20,805.0	8,996.3	21,830.6	9,792.1	92.4	93.3	132.30	-11,646.0	-399.1	1,189.4	999.8	189.54	6.275		
20,900.0	8,996.4	21,925.6	9,792.2	93.1	94.0	132.30	-11,741.0	-399.9	1,189.4	998.4	190.99	6.227		
20,995.0	8,996.4	22,020.6	9,792.2	93.8	94.8	132.30	-11,836.0	-400.6	1,189.4	996.9	192.44	6.181		
21,000.0	8,996.4	22,025.6	9,792.2	93.9	94.8	132.30	-11,841.0	-400.7	1,189.4	996.9	192.51	6.178		
21,090.0	8,996.5	22,115.6	9,792.3	94.6	95.5	132.30	-11,931.0	-401.4	1,189.4	995.5	193.89	6.134		
21,100.0	8,996.5	22,125.6	9,792.3	94.6	95.6	132.30	-11,941.0	-401.5	1,189.4	995.3	194.04	6.130		
21,185.0	8,996.5	22,210.6	9,792.3	95.3	96.2	132.30	-12,026.0	-402.2	1,189.4	994.1	195.33	6.089		
21,200.0	8,996.5	22,225.6	9,792.3	95.4	96.3	132.30	-12,041.0	-402.3	1,189.4	993.8	195.56	6.082		
21,280.0	8,996.5	22,305.6	9,792.4	96.0	96.9	132.30	-12,121.0	-403.0	1,189.4	992.6	196.78	6.044		
21,300.0	8,996.6	22,325.6	9,792.4	96.1	97.1	132.30	-12,141.0	-403.2	1,189.4	992.3	197.09	6.035		
21,375.0	8,996.6	22,400.6	9,792.4	96.7	97.6	132.30	-12,216.0	-403.8	1,189.4	991.2	198.23	6.000		
21,400.0	8,996.6	22,425.6	9,792.4	96.9	97.8	132.30	-12,241.0	-404.0	1,189.4	990.8	198.61	5.989		
21,470.0	8,996.6	22,495.6	9,792.5	97.4	98.4	132.30	-12,311.0	-404.6	1,189.4	989.7	199.68	5.957		
21,500.0	8,996.6	22,525.6	9,792.5	97.6	98.6	132.30	-12,341.0	-404.8	1,189.4	989.3	200.14	5.943		
21,565.0	8,996.7	22,590.6	9,792.5	98.1	99.1	132.30	-12,406.0	-405.4	1,189.4	988.3	201.13	5.914		
21,600.0	8,996.7	22,625.6	9,792.5	98.4	99.3	132.30	-12,441.0	-405.6	1,189.4	987.7	201.66	5.898		
21,660.0	8,996.7	22,685.6	9,792.6	98.8	99.8	132.30	-12,501.0	-406.1	1,189.4	986.8	202.58	5.871		
21,700.0	8,996.7	22,725.6	9,792.6	99.1	100.1	132.30	-12,541.0	-406.5	1,189.4	986.2	203.19	5.854		
21,755.0	8,996.8	22,780.6	9,792.6	99.5	100.5	132.30	-12,596.0	-406.9	1,189.4	985.4	204.03	5.830		
21,800.0	8,996.8	22,825.6	9,792.6	99.9	100.8	132.30	-12,641.0	-407.3	1,189.4	984.7	204.72	5.810		
21,850.0	8,996.8	22,875.6	9,792.7	100.3	101.2	132.30	-12,691.0	-407.7	1,189.4	983.9	205.48	5.788		
21,900.0	8,996.8	22,925.6	9,792.7	100.6	101.6	132.30	-12,740.9	-408.1	1,189.4	983.2	206.24	5.767		
21,945.0	8,996.9	22,970.6	9,792.7	101.0	101.9	132.30	-12,785.9	-408.5	1,189.4	982.5	206.93	5.748		
22,000.0	8,996.9	23,025.6	9,792.7	101.4	102.4	132.30	-12,840.9	-409.0	1,189.4	981.7	207.77	5.725		
22,040.0	8,996.9	23,065.6	9,792.8	101.7	102.7	132.30	-12,880.9	-409.3	1,189.4	981.1	208.38	5.708		
22,100.0	8,996.9	23,125.6	9,792.8	102.1	103.1	132.30	-12,940.9	-409.8	1,189.4	980.1	209.30	5.683		
22,135.0	8,996.9	23,160.6	9,792.8	102.4	103.4	132.30	-12,975.9	-410.1	1,189.4	979.6	209.83	5.668		
22,200.0	8,997.0	23,225.6	9,792.9	102.9	103.9	132.30	-13,040.9	-410.6	1,189.4	978.6	210.83	5.642		
22,230.0	8,997.0	23,255.6	9,792.9	103.1	104.1	132.30	-13,070.9	-410.9	1,189.4	978.2	211.29	5.630		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Rule Assigned:	Minimum	Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor
22,300.0	8,997.0	23,325.6	9,792.9	103.6	104.6	132.30	-13,140.9	-411.4	1,189.5	977.1	212.36	5.601
22,325.0	8,997.0	23,350.6	9,792.9	103.8	104.8	132.30	-13,165.9	-411.6	1,189.5	976.7	212.74	5.591
22,400.0	8,997.1	23,425.6	9,793.0	104.4	105.4	132.30	-13,240.9	-412.3	1,189.5	975.6	213.88	5.561
22,420.0	8,997.1	23,445.6	9,793.0	104.6	105.5	132.30	-13,260.9	-412.4	1,189.5	975.3	214.19	5.553
22,500.0	8,997.1	23,525.6	9,793.0	105.2	106.1	132.30	-13,340.9	-413.1	1,189.5	974.0	215.41	5.522
22,515.0	8,997.1	23,540.6	9,793.0	105.3	106.3	132.30	-13,355.9	-413.2	1,189.5	973.8	215.64	5.516
22,600.0	8,997.2	23,625.6	9,793.1	105.9	106.9	132.30	-13,440.9	-413.9	1,189.5	972.5	216.94	5.483
22,610.0	8,997.2	23,635.6	9,793.1	106.0	107.0	132.30	-13,450.9	-414.0	1,189.5	972.4	217.09	5.479
22,700.0	8,997.2	23,725.6	9,793.1	106.7	107.7	132.30	-13,540.9	-414.7	1,189.5	971.0	218.47	5.445
22,705.0	8,997.2	23,730.6	9,793.1	106.7	107.7	132.30	-13,545.9	-414.8	1,189.5	970.9	218.55	5.443
22,800.0	8,997.3	23,825.6	9,793.2	107.4	108.4	132.30	-13,640.9	-415.6	1,189.5	969.5	220.00	5.407
22,895.0	8,997.3	23,920.6	9,793.2	108.1	109.1	132.30	-13,735.9	-416.4	1,189.5	968.0	221.45	5.371
22,900.0	8,997.3	23,925.6	9,793.2	108.2	109.2	132.30	-13,740.9	-416.4	1,189.5	968.0	221.53	5.369
22,990.0	8,997.3	24,015.6	9,793.3	108.8	109.9	132.30	-13,830.9	-417.1	1,189.5	966.6	222.91	5.336
23,000.0	8,997.3	24,025.6	9,793.3	108.9	109.9	132.30	-13,840.9	-417.2	1,189.5	966.4	223.06	5.333
23,085.0	8,997.4	24,110.6	9,793.3	109.6	110.6	132.30	-13,925.9	-417.9	1,189.5	965.1	224.36	5.302
23,100.0	8,997.4	24,125.6	9,793.3	109.7	110.7	132.30	-13,940.9	-418.1	1,189.5	964.9	224.59	5.296
23,180.0	8,997.4	24,205.6	9,793.4	110.3	111.3	132.30	-14,020.9	-418.7	1,189.5	963.7	225.82	5.268
23,200.0	8,997.4	24,225.6	9,793.4	110.4	111.4	132.30	-14,040.9	-418.9	1,189.5	963.4	226.12	5.260
23,275.0	8,997.5	24,300.6	9,793.4	111.0	112.0	132.30	-14,115.9	-419.5	1,189.5	962.2	227.27	5.234
23,300.0	8,997.5	24,325.6	9,793.4	111.2	112.2	132.30	-14,140.9	-419.7	1,189.5	961.9	227.65	5.225
23,370.0	8,997.5	24,395.6	9,793.5	111.7	112.7	132.30	-14,210.9	-420.3	1,189.5	960.8	228.72	5.201
23,400.0	8,997.5	24,425.6	9,793.5	111.9	113.0	132.30	-14,240.9	-420.5	1,189.5	960.3	229.18	5.190
23,465.0	8,997.6	24,490.6	9,793.5	112.4	113.5	132.30	-14,305.9	-421.1	1,189.5	959.3	230.18	5.168
23,500.0	8,997.6	24,525.6	9,793.5	112.7	113.7	132.30	-14,340.9	-421.4	1,189.5	958.8	230.72	5.156
23,560.0	8,997.6	24,585.6	9,793.6	113.1	114.2	132.30	-14,400.9	-421.9	1,189.5	957.9	231.63	5.135
23,600.0	8,997.6	24,625.6	9,793.6	113.4	114.5	132.30	-14,440.9	-422.2	1,189.5	957.3	232.25	5.122
23,655.0	8,997.6	24,680.6	9,793.6	113.9	114.9	132.30	-14,495.9	-422.7	1,189.5	956.4	233.09	5.103
23,700.0	8,997.7	24,725.6	9,793.6	114.2	115.2	132.30	-14,540.9	-423.0	1,189.5	955.8	233.78	5.088
23,750.0	8,997.7	24,775.6	9,793.7	114.6	115.6	132.30	-14,590.9	-423.4	1,189.5	955.0	234.55	5.072
23,800.0	8,997.7	24,825.6	9,793.7	115.0	116.0	132.30	-14,640.9	-423.9	1,189.5	954.2	235.31	5.055
23,845.0	8,997.7	24,870.6	9,793.7	115.3	116.3	132.30	-14,685.9	-424.2	1,189.5	953.5	236.00	5.040
23,900.0	8,997.8	24,925.6	9,793.7	115.7	116.7	132.30	-14,740.9	-424.7	1,189.5	952.7	236.84	5.022
23,940.0	8,997.8	24,965.6	9,793.8	116.0	117.1	132.30	-14,780.9	-425.0	1,189.5	952.1	237.46	5.010
24,000.0	8,997.8	25,025.6	9,793.8	116.5	117.5	132.30	-14,840.9	-425.5	1,189.5	951.2	238.38	4.990
24,035.0	8,997.8	25,060.6	9,793.8	116.7	117.8	132.30	-14,875.9	-425.8	1,189.5	950.6	238.91	4.979
24,100.0	8,997.9	25,125.6	9,793.8	117.2	118.3	132.30	-14,940.9	-426.3	1,189.6	949.6	239.91	4.958
24,130.0	8,997.9	25,155.6	9,793.9	117.5	118.5	132.30	-14,970.9	-426.6	1,189.6	949.2	240.37	4.949
24,200.0	8,997.9	25,225.6	9,793.9	118.0	119.0	132.30	-15,040.9	-427.2	1,189.6	948.1	241.44	4.927
24,225.0	8,997.9	25,250.6	9,793.9	118.2	119.2	132.30	-15,065.9	-427.4	1,189.6	947.7	241.82	4.919
24,275.8	8,997.9	25,301.5	9,793.9	118.6	119.6	132.30	-15,116.7	-427.8	1,189.6	947.0	242.60	4.903
24,300.0	8,998.0	25,325.6	9,794.0	118.7	119.8	132.30	-15,140.9	-428.0	1,189.6	946.6	242.97	4.896
24,320.0	8,998.0	25,345.6	9,794.0	118.9	119.9	132.30	-15,160.9	-428.2	1,189.6	946.3	243.28	4.890
24,320.0	8,998.0	25,345.7	9,794.0	118.9	119.9	132.30	-15,160.9	-428.2	1,189.6	946.3	243.28	4.890
24,405.9	8,998.0	25,408.3	9,794.0	119.5	120.4	132.30	-15,223.5	-428.7	1,189.8	945.5	244.33	4.870 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 #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	-39.61	147.8	-122.3	191.9				
95.0	95.0	90.4	90.4	3.0	3.0	-39.61	147.8	-122.3	191.8	185.8	6.03	31.791	
100.0	100.0	95.4	95.4	3.0	3.0	-39.61	147.8	-122.3	191.8	185.8	6.04	31.765	
190.0	190.0	185.4	185.4	3.1	3.1	-39.61	147.8	-122.3	191.8	185.6	6.25	30.703	
200.0	200.0	195.4	195.4	3.1	3.1	-39.61	147.8	-122.3	191.8	185.6	6.28	30.536	
285.0	285.0	280.4	280.4	3.3	3.2	-39.61	147.8	-122.3	191.8	185.4	6.49	29.569	
300.0	300.0	295.4	295.4	3.3	3.3	-39.61	147.8	-122.3	191.8	185.3	6.53	29.385	
380.0	380.0	375.4	375.4	3.4	3.4	-39.61	147.8	-122.3	191.8	185.1	6.72	28.556	
400.0	400.0	395.4	395.4	3.4	3.4	-39.61	147.8	-122.3	191.8	185.1	6.77	28.341	
475.0	475.0	470.4	470.4	3.5	3.5	-39.61	147.8	-122.3	191.8	184.9	6.94	27.627	
500.0	500.0	495.4	495.4	3.5	3.5	-39.61	147.8	-122.3	191.8	184.8	7.01	27.386	
570.0	570.0	565.4	565.4	3.6	3.6	-39.61	147.8	-122.3	191.8	184.7	7.17	26.770	
600.0	600.0	595.4	595.4	3.6	3.6	-39.61	147.8	-122.3	191.8	184.6	7.24	26.506	
665.0	665.0	660.4	660.4	3.7	3.7	-39.61	147.8	-122.3	191.8	184.5	7.39	25.976	
700.0	700.0	695.4	695.4	3.8	3.8	-39.61	147.8	-122.3	191.8	184.4	7.47	25.692	
760.0	760.0	755.4	755.4	3.8	3.8	-39.61	147.8	-122.3	191.8	184.2	7.60	25.237	
800.0	800.0	795.4	795.4	3.9	3.9	-39.61	147.8	-122.3	191.8	184.1	7.69	24.936	
855.0	855.0	850.4	850.4	4.0	3.9	-39.61	147.8	-122.3	191.8	184.0	7.82	24.547	
900.0	900.0	895.4	895.4	4.0	4.0	-39.61	147.8	-122.3	191.8	183.9	7.92	24.232	
950.0	950.0	945.4	945.4	4.1	4.1	-39.61	147.8	-122.3	191.8	183.8	8.03	23.901	
1,000.0	1,000.0	995.4	995.4	4.1	4.1	-39.61	147.8	-122.3	191.8	183.7	8.14	23.574	
1,045.0	1,045.0	1,040.4	1,040.4	4.2	4.2	-39.61	147.8	-122.3	191.8	183.6	8.24	23.294	
1,100.0	1,100.0	1,095.4	1,095.4	4.2	4.2	-39.61	147.8	-122.3	191.8	183.5	8.36	22.957	
1,140.0	1,140.0	1,135.4	1,135.4	4.3	4.3	-39.61	147.8	-122.3	191.8	183.4	8.44	22.723	
1,200.0	1,200.0	1,195.4	1,195.4	4.4	4.4	-39.61	147.8	-122.3	191.8	183.3	8.57	22.377	
1,235.0	1,235.0	1,230.4	1,230.4	4.4	4.4	-39.61	147.8	-122.3	191.8	183.2	8.65	22.184	
1,300.0	1,300.0	1,295.4	1,295.4	4.5	4.5	-39.61	147.8	-122.3	191.8	183.1	8.79	21.830	
1,330.0	1,330.0	1,325.4	1,325.4	4.5	4.5	-39.61	147.8	-122.3	191.8	183.0	8.85	21.674	
1,400.0	1,400.0	1,395.4	1,395.4	4.6	4.6	-39.61	147.8	-122.3	191.8	182.8	9.00	21.314	
1,425.0	1,425.0	1,420.4	1,420.4	4.6	4.6	-39.61	147.8	-122.3	191.8	182.8	9.05	21.190	
1,500.0	1,500.0	1,495.4	1,495.4	4.7	4.7	-39.61	147.8	-122.3	191.8	182.6	9.21	20.825 CC	
1,520.0	1,520.0	1,514.5	1,514.5	4.7	4.7	-96.29	147.8	-122.3	191.9	182.6	9.26	20.715 ES	
1,600.0	1,600.0	1,590.0	1,590.0	4.9	4.8	-96.92	148.3	-123.6	193.4	183.9	9.45	20.453	
1,615.0	1,615.0	1,604.1	1,604.1	4.9	4.8	-97.13	148.5	-124.0	193.9	184.4	9.51	20.395	
1,700.0	1,699.8	1,683.8	1,683.7	5.1	5.0	-98.82	150.1	-127.7	198.4	188.6	9.82	20.208	
1,710.0	1,709.8	1,693.2	1,693.0	5.1	5.0	-99.08	150.3	-128.3	199.1	189.2	9.85	20.204 SF	
1,800.0	1,799.5	1,776.7	1,776.3	5.3	5.2	-101.75	152.9	-134.6	207.3	197.2	10.19	20.348	
1,805.0	1,804.4	1,781.3	1,780.9	5.4	5.2	-101.92	153.1	-135.1	207.9	197.7	10.21	20.365	
1,900.0	1,898.7	1,868.1	1,867.1	5.6	5.5	-105.36	156.8	-144.1	220.9	210.3	10.58	20.869	
1,995.0	1,992.5	1,953.3	1,951.4	5.9	5.8	-109.08	161.5	-155.4	238.5	227.5	10.99	21.702	
2,000.0	1,997.5	1,957.7	1,955.7	5.9	5.8	-109.27	161.7	-156.0	239.5	228.5	11.01	21.755	
2,090.0	2,085.8	2,036.3	2,033.2	6.3	6.0	-112.78	166.9	-168.6	261.1	249.7	11.43	22.850	
2,100.0	2,095.6	2,044.9	2,041.7	6.3	6.1	-113.16	167.5	-170.1	263.8	252.3	11.48	22.989	
2,185.0	2,178.5	2,117.1	2,112.3	6.6	6.3	-116.26	173.1	-183.5	289.0	277.1	11.90	24.289	
2,199.8	2,192.9	2,129.4	2,124.4	6.6	6.4	-116.77	174.1	-185.9	293.9	281.9	11.98	24.538	
2,280.0	2,270.7	2,199.9	2,193.0	6.9	6.6	-119.94	180.3	-200.9	321.7	309.3	12.42	25.894	
2,300.0	2,290.1	2,213.2	2,205.9	7.0	6.7	-120.49	181.5	-203.9	329.0	316.5	12.49	26.347	
2,375.0	2,362.9	2,281.4	2,272.0	7.2	6.9	-123.02	187.8	-219.1	356.8	343.9	12.90	27.659	
2,400.0	2,387.1	2,304.1	2,294.1	7.3	6.9	-123.78	189.9	-224.2	366.2	353.2	13.04	28.084	
2,470.0	2,455.0	2,367.7	2,355.8	7.5	7.1	-125.72	195.8	-238.4	392.8	379.4	13.45	29.213	
2,500.0	2,484.1	2,395.0	2,382.2	7.6	7.2	-126.48	198.3	-244.5	404.3	390.7	13.62	29.682	

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ConocoPhillips

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Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,565.0	2,547.2	2,454.0	2,439.5	7.9	7.4	-127.98	203.8	-257.7	429.5	415.5	14.02	30.641		
2,600.0	2,581.2	2,485.8	2,470.4	8.0	7.5	-128.72	206.7	-264.8	443.1	428.9	14.23	31.139		
2,660.0	2,639.4	2,540.3	2,523.3	8.2	7.7	-129.89	211.8	-277.0	466.6	452.0	14.61	31.947		
2,700.0	2,678.2	2,576.7	2,558.6	8.4	7.9	-130.61	215.1	-285.1	482.4	467.5	14.86	32.464		
2,755.0	2,731.6	2,626.7	2,607.0	8.6	8.1	-131.53	219.8	-296.3	504.2	489.0	15.21	33.137		
2,800.0	2,775.2	2,667.6	2,646.7	8.7	8.2	-132.22	223.5	-305.5	522.1	506.6	15.51	33.664		
2,850.0	2,823.8	2,713.0	2,690.8	8.9	8.4	-132.94	227.7	-315.6	542.0	526.2	15.84	34.221		
2,900.0	2,872.3	2,758.4	2,734.9	9.1	8.6	-133.61	231.9	-325.8	562.0	545.9	16.17	34.751		
2,945.0	2,915.9	2,799.3	2,774.6	9.3	8.7	-134.17	235.7	-334.9	580.1	563.6	16.48	35.207		
3,000.0	2,969.3	2,849.3	2,823.0	9.5	8.9	-134.81	240.3	-346.1	602.2	585.4	16.85	35.735		
3,040.0	3,008.1	2,885.6	2,858.3	9.7	9.1	-135.25	243.7	-354.2	618.4	601.3	17.13	36.102		
3,100.0	3,066.3	2,940.1	2,911.2	10.0	9.3	-135.87	248.7	-366.4	642.7	625.1	17.55	36.627		
3,135.0	3,100.3	2,971.9	2,942.1	10.1	9.4	-136.21	251.7	-373.5	656.8	639.0	17.79	36.918		
3,200.0	3,163.4	3,031.0	2,999.4	10.4	9.7	-136.80	257.1	-386.7	683.2	665.0	18.25	37.436		
3,230.0	3,192.5	3,058.3	3,025.8	10.5	9.8	-137.06	259.7	-392.8	695.4	677.0	18.46	37.663		
3,300.0	3,260.4	3,121.9	3,087.5	10.8	10.0	-137.63	265.5	-407.0	723.9	705.0	18.97	38.171		
3,325.0	3,284.7	3,144.6	3,109.6	10.9	10.1	-137.82	267.6	-412.1	734.1	715.0	19.15	38.343		
3,400.0	3,357.4	3,212.7	3,175.7	11.2	10.4	-138.37	273.9	-427.3	764.8	745.1	19.69	38.840		
3,420.0	3,376.8	3,230.9	3,193.3	11.3	10.5	-138.50	275.6	-431.4	772.9	753.1	19.84	38.965		
3,500.0	3,454.5	3,303.6	3,263.9	11.7	10.8	-139.03	282.3	-447.6	805.7	785.3	20.42	39.450		
3,515.0	3,469.0	3,317.2	3,277.1	11.7	10.9	-139.13	283.6	-450.7	811.8	791.3	20.53	39.536		
3,600.0	3,551.5	3,394.4	3,352.0	12.1	11.2	-139.63	290.7	-467.9	846.7	825.5	21.16	40.007		
3,610.0	3,561.2	3,403.5	3,360.8	12.2	11.2	-139.69	291.6	-470.0	850.8	829.5	21.24	40.060		
3,700.0	3,648.5	3,485.3	3,440.2	12.5	11.6	-140.18	299.1	-488.3	887.7	865.8	21.91	40.517		
3,705.0	3,653.4	3,489.8	3,444.6	12.6	11.6	-140.21	299.6	-489.3	889.8	867.9	21.95	40.541		
3,800.0	3,745.6	3,576.2	3,528.4	13.0	12.0	-140.68	307.5	-508.6	928.9	906.2	22.66	40.985		
3,895.0	3,837.7	3,662.5	3,612.1	13.4	12.4	-141.11	315.5	-527.9	968.0	944.6	23.38	41.395		
3,900.0	3,842.6	3,667.0	3,616.5	13.4	12.4	-141.14	315.9	-528.9	970.1	946.6	23.42	41.416		
3,990.0	3,929.9	3,748.8	3,695.9	13.9	12.8	-141.51	323.5	-547.2	1,007.2	983.1	24.11	41.774		
4,000.0	3,939.6	3,757.9	3,704.7	13.9	12.8	-141.55	324.3	-549.2	1,011.3	987.1	24.19	41.812		
4,019.1	3,958.1	3,775.2	3,721.5	14.0	12.9	-141.63	325.9	-553.1	1,019.2	994.9	24.32	41.899		
4,085.0	4,022.3	3,835.4	3,779.9	14.3	13.1	-142.22	331.5	-566.5	1,045.8	1,021.0	24.83	42.124		
4,100.0	4,036.9	3,849.2	3,793.2	14.3	13.2	-142.34	332.8	-569.6	1,051.8	1,026.8	24.94	42.168		
4,180.0	4,115.3	3,923.0	3,864.9	14.7	13.5	-142.91	339.6	-586.1	1,082.3	1,056.8	25.57	42.334		
4,200.0	4,134.9	3,941.6	3,882.9	14.8	13.6	-143.04	341.3	-590.3	1,089.7	1,064.0	25.72	42.364		
4,275.0	4,208.9	4,011.6	3,950.9	15.2	13.9	-143.45	347.8	-605.9	1,116.5	1,090.2	26.30	42.449		
4,300.0	4,233.6	4,035.1	3,973.7	15.3	14.0	-143.56	350.0	-611.2	1,125.1	1,098.6	26.50	42.463		
4,370.0	4,303.0	4,101.2	4,037.7	15.6	14.3	-143.84	356.1	-625.9	1,148.3	1,121.3	27.03	42.485		
4,400.0	4,332.8	4,129.6	4,065.3	15.7	14.5	-143.93	358.7	-632.3	1,157.9	1,130.6	27.26	42.479		
4,465.0	4,397.4	4,191.5	4,125.4	16.0	14.8	-144.10	364.4	-646.1	1,177.7	1,150.0	27.74	42.455		
4,500.0	4,432.3	4,224.9	4,157.8	16.1	14.9	-144.16	367.5	-653.6	1,188.0	1,159.9	28.00	42.425		
4,560.0	4,492.2	4,282.5	4,213.7	16.3	15.2	-144.23	372.8	-666.4	1,204.7	1,176.3	28.43	42.372		
4,600.0	4,532.1	4,321.0	4,251.0	16.5	15.4	-144.26	376.4	-675.1	1,215.3	1,186.6	28.72	42.319		
4,655.0	4,587.1	4,374.1	4,302.6	16.7	15.6	-144.26	381.3	-686.9	1,229.2	1,200.1	29.08	42.264		
4,700.0	4,632.1	4,417.6	4,344.8	16.8	15.8	-144.23	385.3	-696.7	1,240.0	1,210.6	29.38	42.200		
4,718.9	4,651.0	4,436.0	4,362.6	16.8	15.9	-87.55	387.0	-700.8	1,244.4	1,214.9	29.48	42.213		
4,750.0	4,682.1	4,466.1	4,391.9	16.8	16.0	-87.44	389.8	-707.5	1,251.5	1,221.8	29.63	42.242		
4,800.0	4,732.1	4,514.7	4,439.0	16.8	16.3	-87.25	394.3	-718.4	1,262.9	1,233.0	29.86	42.288		
4,845.0	4,777.1	4,558.3	4,481.3	16.9	16.5	-87.08	398.3	-728.1	1,273.2	1,243.1	30.08	42.319		
4,900.0	4,832.1	4,611.7	4,533.1	16.9	16.7	-86.89	403.3	-740.0	1,285.7	1,255.4	30.36	42.356		
4,940.0	4,872.1	4,650.5	4,570.8	16.9	16.9	-86.75	406.9	-748.7	1,294.9	1,264.4	30.55	42.382		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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			
Measured Reference		Vertical Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Between		Minimum Separation		Warning	
Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
5,000.0	4,932.1	4,708.7	4,627.3	16.9	17.2	-86.54	412.2	-761.7	1,308.7	1,277.8	30.85	42.419			
5,035.0	4,967.1	4,742.7	4,660.2	17.0	17.3	-86.42	415.4	-769.3	1,316.7	1,285.7	31.03	42.440			

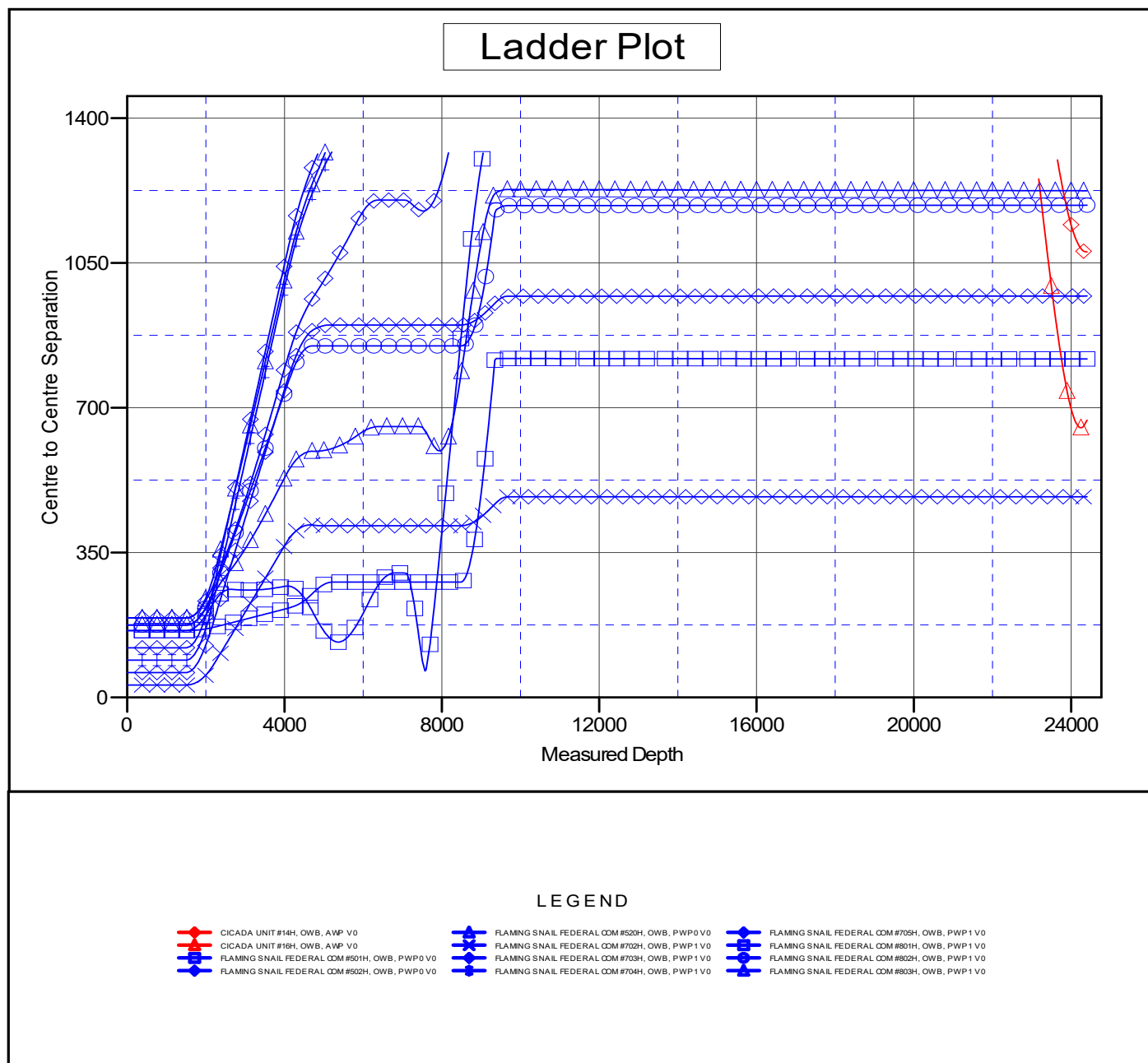
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *RKB 32ft + GL 3129.3ft @ 3161.3usf
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #701H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.08°



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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *RKB 32ft + GL 3129.3ft @ 3161.3usft

Offset Depths are relative to Offset Datum

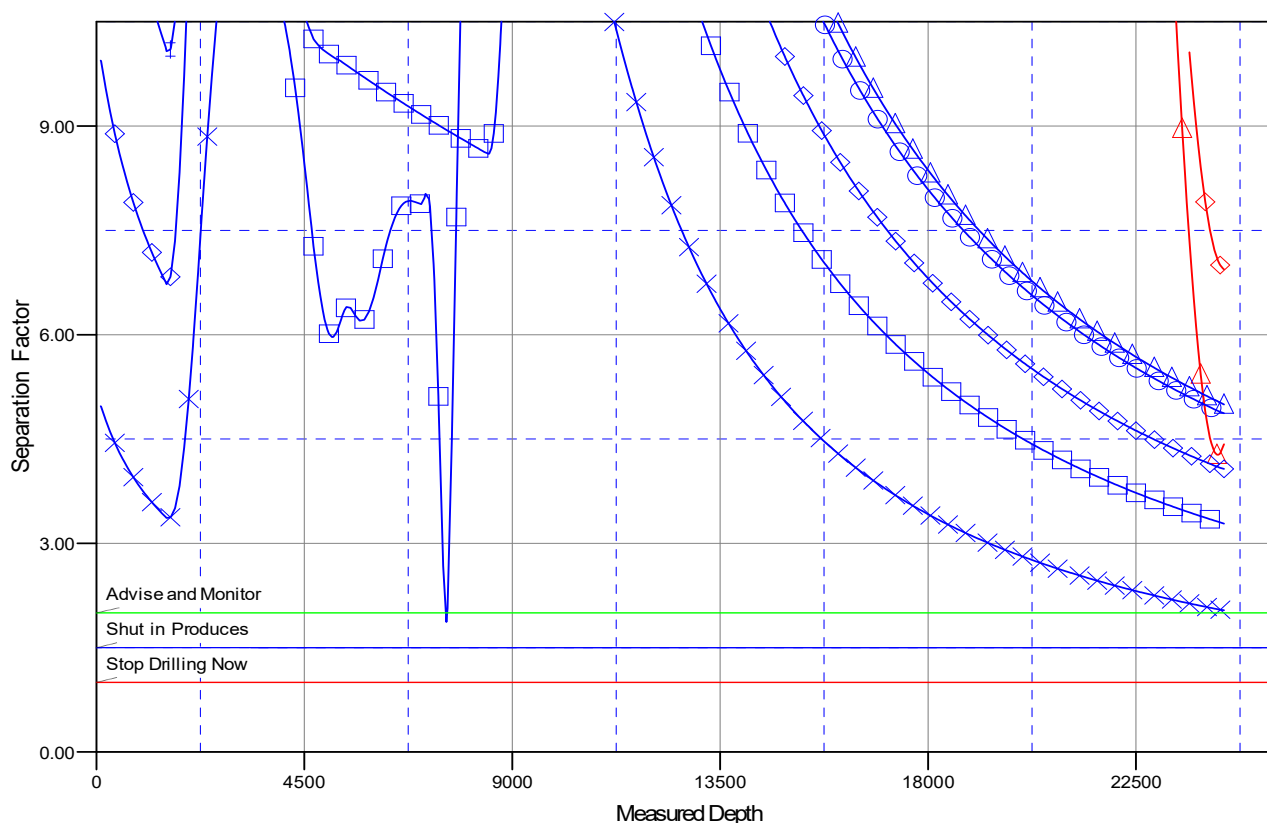
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #701H

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

Grid Convergence at Surface is: 0.08°

Separation Factor Plot



LEGEND

CICADA UNIT #14H, OWB, AWP V0	FLAMING SNAIL FEDERAL COM #520H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #705H, OWB, PWP1 V0
CICADA UNIT #16H, OWB, AWP V0	FLAMING SNAIL FEDERAL COM #702H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #801H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #501H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #703H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #802H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #502H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #803H, OWB, PWP1 V0

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 #701H

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 #701H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

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

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

Well	FLAMING SNAIL FEDERAL COM #701H					
Well Position	+N/-S	-546.4 usft	Northing:	402,475.30 usft	Latitude:	32° 6' 23.178 N
	+E/-W	4,402.9 usft	Easting:	544,714.80 usft	Longitude:	104° 11' 20.121 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,129.3 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,317.52577573

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	178.31

Plan Survey Tool Program	Date	9/24/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	1,500.0 PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp
2	1,500.0	8,485.9 PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
3	8,485.9	24,405.9 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 #701H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,199.8	14.00	56.66	2,192.9	46.7	71.1	2.00	2.00	0.00	56.66	
4,019.1	14.00	56.66	3,958.1	288.6	438.6	0.00	0.00	0.00	0.00	
4,718.9	0.00	0.00	4,651.0	335.3	509.7	2.00	-2.00	0.00	180.00	
8,485.9	0.00	0.00	8,418.0	335.3	509.7	0.00	0.00	0.00	0.00	VT (FLAMING SNAIL
9,385.7	89.97	174.85	8,991.0	-235.1	561.1	10.00	10.00	0.00	174.85	
9,666.8	89.97	180.47	8,991.1	-515.9	572.6	2.00	0.00	2.00	90.00	
24,275.8	89.97	180.47	8,997.9	-15,124.4	452.0	0.00	0.00	0.00	0.00	LTP (FLAMING SNAIL
24,405.9	89.97	180.47	8,998.0	-15,254.5	450.9	0.00	0.00	0.00	0.00	PBHL (FLAMING SNAIL

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #701H	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	56.66	1,600.0	1.0	1.5	-0.9	2.00	2.00	0.00
1,700.0	4.00	56.66	1,699.8	3.8	5.8	-3.7	2.00	2.00	0.00
1,800.0	6.00	56.66	1,799.5	8.6	13.1	-8.2	2.00	2.00	0.00
1,900.0	8.00	56.66	1,898.7	15.3	23.3	-14.6	2.00	2.00	0.00
2,000.0	10.00	56.66	1,997.5	23.9	36.4	-22.8	2.00	2.00	0.00
2,100.0	12.00	56.66	2,095.6	34.4	52.3	-32.8	2.00	2.00	0.00
2,199.8	14.00	56.66	2,192.9	46.7	71.1	-44.6	2.00	2.00	0.00
Start 1819.3 hold at 2199.8 MD									
2,300.0	14.00	56.66	2,290.1	60.1	91.3	-57.3	0.00	0.00	0.00
2,400.0	14.00	56.66	2,387.1	73.4	111.5	-70.0	0.00	0.00	0.00
2,500.0	14.00	56.66	2,484.1	86.6	131.7	-82.7	0.00	0.00	0.00
2,600.0	14.00	56.66	2,581.2	99.9	151.9	-95.4	0.00	0.00	0.00
2,700.0	14.00	56.66	2,678.2	113.2	172.1	-108.1	0.00	0.00	0.00
2,800.0	14.00	56.66	2,775.2	126.5	192.3	-120.8	0.00	0.00	0.00
2,900.0	14.00	56.66	2,872.3	139.8	212.5	-133.5	0.00	0.00	0.00
3,000.0	14.00	56.66	2,969.3	153.1	232.7	-146.2	0.00	0.00	0.00
3,100.0	14.00	56.66	3,066.3	166.4	252.9	-158.8	0.00	0.00	0.00
3,200.0	14.00	56.66	3,163.4	179.7	273.1	-171.5	0.00	0.00	0.00
3,300.0	14.00	56.66	3,260.4	193.0	293.4	-184.2	0.00	0.00	0.00
3,400.0	14.00	56.66	3,357.4	206.3	313.6	-196.9	0.00	0.00	0.00
3,500.0	14.00	56.66	3,454.5	219.6	333.8	-209.6	0.00	0.00	0.00
3,600.0	14.00	56.66	3,551.5	232.9	354.0	-222.3	0.00	0.00	0.00
3,700.0	14.00	56.66	3,648.5	246.1	374.2	-235.0	0.00	0.00	0.00
3,800.0	14.00	56.66	3,745.6	259.4	394.4	-247.7	0.00	0.00	0.00
3,900.0	14.00	56.66	3,842.6	272.7	414.6	-260.4	0.00	0.00	0.00
4,000.0	14.00	56.66	3,939.6	286.0	434.8	-273.0	0.00	0.00	0.00
4,019.1	14.00	56.66	3,958.1	288.6	438.6	-275.5	0.00	0.00	0.00
Start Drop -2.00									
4,100.0	12.38	56.66	4,036.9	298.7	454.1	-285.2	2.00	-2.00	0.00
4,200.0	10.38	56.66	4,134.9	309.5	470.5	-295.5	2.00	-2.00	0.00
4,300.0	8.38	56.66	4,233.6	318.5	484.2	-304.1	2.00	-2.00	0.00
4,400.0	6.38	56.66	4,332.8	325.6	494.9	-310.8	2.00	-2.00	0.00
4,500.0	4.38	56.66	4,432.3	330.7	502.7	-315.7	2.00	-2.00	0.00
4,600.0	2.38	56.66	4,532.1	333.9	507.6	-318.8	2.00	-2.00	0.00
4,700.0	0.38	56.66	4,632.1	335.3	509.6	-320.1	2.00	-2.00	0.00
4,718.9	0.00	0.00	4,651.0	335.3	509.7	-320.1	2.00	-2.00	-299.99
Start 3767.0 hold at 4718.9 MD									

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,800.0	0.00	0.00	4,732.1	335.3	509.7	-320.1	0.00	0.00	0.00
4,900.0	0.00	0.00	4,832.1	335.3	509.7	-320.1	0.00	0.00	0.00
5,000.0	0.00	0.00	4,932.1	335.3	509.7	-320.1	0.00	0.00	0.00
5,100.0	0.00	0.00	5,032.1	335.3	509.7	-320.1	0.00	0.00	0.00
5,200.0	0.00	0.00	5,132.1	335.3	509.7	-320.1	0.00	0.00	0.00
5,300.0	0.00	0.00	5,232.1	335.3	509.7	-320.1	0.00	0.00	0.00
5,400.0	0.00	0.00	5,332.1	335.3	509.7	-320.1	0.00	0.00	0.00
5,500.0	0.00	0.00	5,432.1	335.3	509.7	-320.1	0.00	0.00	0.00
5,600.0	0.00	0.00	5,532.1	335.3	509.7	-320.1	0.00	0.00	0.00
5,700.0	0.00	0.00	5,632.1	335.3	509.7	-320.1	0.00	0.00	0.00
5,800.0	0.00	0.00	5,732.1	335.3	509.7	-320.1	0.00	0.00	0.00
5,900.0	0.00	0.00	5,832.1	335.3	509.7	-320.1	0.00	0.00	0.00
6,000.0	0.00	0.00	5,932.1	335.3	509.7	-320.1	0.00	0.00	0.00
6,100.0	0.00	0.00	6,032.1	335.3	509.7	-320.1	0.00	0.00	0.00
6,200.0	0.00	0.00	6,132.1	335.3	509.7	-320.1	0.00	0.00	0.00
6,300.0	0.00	0.00	6,232.1	335.3	509.7	-320.1	0.00	0.00	0.00
6,400.0	0.00	0.00	6,332.1	335.3	509.7	-320.1	0.00	0.00	0.00
6,500.0	0.00	0.00	6,432.1	335.3	509.7	-320.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,532.1	335.3	509.7	-320.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,632.1	335.3	509.7	-320.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,732.1	335.3	509.7	-320.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,832.1	335.3	509.7	-320.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,932.1	335.3	509.7	-320.1	0.00	0.00	0.00
7,100.0	0.00	0.00	7,032.1	335.3	509.7	-320.1	0.00	0.00	0.00
7,200.0	0.00	0.00	7,132.1	335.3	509.7	-320.1	0.00	0.00	0.00
7,300.0	0.00	0.00	7,232.1	335.3	509.7	-320.1	0.00	0.00	0.00
7,400.0	0.00	0.00	7,332.1	335.3	509.7	-320.1	0.00	0.00	0.00
7,500.0	0.00	0.00	7,432.1	335.3	509.7	-320.1	0.00	0.00	0.00
7,600.0	0.00	0.00	7,532.1	335.3	509.7	-320.1	0.00	0.00	0.00
7,700.0	0.00	0.00	7,632.1	335.3	509.7	-320.1	0.00	0.00	0.00
7,800.0	0.00	0.00	7,732.1	335.3	509.7	-320.1	0.00	0.00	0.00
7,900.0	0.00	0.00	7,832.1	335.3	509.7	-320.1	0.00	0.00	0.00
8,000.0	0.00	0.00	7,932.1	335.3	509.7	-320.1	0.00	0.00	0.00
8,100.0	0.00	0.00	8,032.1	335.3	509.7	-320.1	0.00	0.00	0.00
8,200.0	0.00	0.00	8,132.1	335.3	509.7	-320.1	0.00	0.00	0.00
8,300.0	0.00	0.00	8,232.1	335.3	509.7	-320.1	0.00	0.00	0.00
8,400.0	0.00	0.00	8,332.1	335.3	509.7	-320.1	0.00	0.00	0.00
8,485.9	0.00	0.00	8,418.0	335.3	509.7	-320.1	0.00	0.00	0.00
Start Build 10.00									
8,500.0	1.41	174.85	8,432.1	335.1	509.7	-319.9	10.00	10.00	0.00
8,550.0	6.41	174.85	8,482.0	331.7	510.0	-316.5	10.00	10.00	0.00
8,600.0	11.41	174.85	8,531.4	324.0	510.7	-308.8	10.00	10.00	0.00
8,650.0	16.41	174.85	8,579.9	312.1	511.8	-296.8	10.00	10.00	0.00
8,700.0	21.41	174.85	8,627.2	295.9	513.2	-280.6	10.00	10.00	0.00
8,750.0	26.41	174.85	8,672.9	275.8	515.1	-260.4	10.00	10.00	0.00
8,800.0	31.41	174.85	8,716.6	251.7	517.2	-236.3	10.00	10.00	0.00
8,850.0	36.41	174.85	8,758.1	223.9	519.7	-208.5	10.00	10.00	0.00
8,900.0	41.41	174.85	8,797.0	192.7	522.6	-177.1	10.00	10.00	0.00
8,950.0	46.41	174.85	8,833.0	158.1	525.7	-142.5	10.00	10.00	0.00
9,000.0	51.41	174.85	8,865.9	120.6	529.0	-104.9	10.00	10.00	0.00
9,050.0	56.41	174.85	8,895.3	80.4	532.7	-64.6	10.00	10.00	0.00
9,100.0	61.41	174.85	8,921.1	37.8	536.5	-21.9	10.00	10.00	0.00
9,150.0	66.41	174.85	8,943.1	-7.0	540.5	22.9	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #701H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,200.0	71.41	174.85	8,961.1	-53.4	544.7	69.5	10.00	10.00	0.00
9,250.0	76.41	174.85	8,975.0	-101.2	549.0	117.4	10.00	10.00	0.00
9,300.0	81.41	174.85	8,984.6	-150.1	553.4	166.4	10.00	10.00	0.00
9,350.0	86.41	174.85	8,989.9	-199.6	557.9	216.0	10.00	10.00	0.00
9,385.7	89.97	174.85	8,991.0	-235.1	561.1	251.6	10.00	10.00	0.00
Start DLS 2.00 TFO 90.00									
9,400.0	89.97	175.14	8,991.0	-249.4	562.4	265.9	2.00	0.00	2.00
9,500.0	89.97	177.14	8,991.1	-349.1	569.1	365.8	2.00	0.00	2.00
9,600.0	89.97	179.14	8,991.1	-449.1	572.3	465.8	2.00	0.00	2.00
9,666.8	89.97	180.47	8,991.1	-515.9	572.6	532.6	2.00	0.00	2.00
Start 14609.0 hold at 9666.8 MD									
9,700.0	89.97	180.47	8,991.1	-549.1	572.3	565.7	0.00	0.00	0.00
9,800.0	89.97	180.47	8,991.2	-649.1	571.5	665.7	0.00	0.00	0.00
9,900.0	89.97	180.47	8,991.2	-749.1	570.6	765.6	0.00	0.00	0.00
10,000.0	89.97	180.47	8,991.3	-849.1	569.8	865.5	0.00	0.00	0.00
10,100.0	89.97	180.47	8,991.3	-949.1	569.0	965.5	0.00	0.00	0.00
10,200.0	89.97	180.47	8,991.4	-1,049.1	568.2	1,065.4	0.00	0.00	0.00
10,300.0	89.97	180.47	8,991.4	-1,149.0	567.3	1,165.3	0.00	0.00	0.00
10,400.0	89.97	180.47	8,991.5	-1,249.0	566.5	1,265.2	0.00	0.00	0.00
10,500.0	89.97	180.47	8,991.5	-1,349.0	565.7	1,365.2	0.00	0.00	0.00
10,600.0	89.97	180.47	8,991.6	-1,449.0	564.9	1,465.1	0.00	0.00	0.00
10,700.0	89.97	180.47	8,991.6	-1,549.0	564.0	1,565.0	0.00	0.00	0.00
10,800.0	89.97	180.47	8,991.7	-1,649.0	563.2	1,665.0	0.00	0.00	0.00
10,900.0	89.97	180.47	8,991.7	-1,749.0	562.4	1,764.9	0.00	0.00	0.00
11,000.0	89.97	180.47	8,991.8	-1,849.0	561.6	1,864.8	0.00	0.00	0.00
11,100.0	89.97	180.47	8,991.8	-1,949.0	560.7	1,964.7	0.00	0.00	0.00
11,200.0	89.97	180.47	8,991.8	-2,049.0	559.9	2,064.7	0.00	0.00	0.00
11,300.0	89.97	180.47	8,991.9	-2,149.0	559.1	2,164.6	0.00	0.00	0.00
11,400.0	89.97	180.47	8,991.9	-2,249.0	558.3	2,264.5	0.00	0.00	0.00
11,500.0	89.97	180.47	8,992.0	-2,349.0	557.4	2,364.5	0.00	0.00	0.00
11,600.0	89.97	180.47	8,992.0	-2,449.0	556.6	2,464.4	0.00	0.00	0.00
11,700.0	89.97	180.47	8,992.1	-2,549.0	555.8	2,564.3	0.00	0.00	0.00
11,800.0	89.97	180.47	8,992.1	-2,649.0	555.0	2,664.2	0.00	0.00	0.00
11,900.0	89.97	180.47	8,992.2	-2,749.0	554.1	2,764.2	0.00	0.00	0.00
12,000.0	89.97	180.47	8,992.2	-2,849.0	553.3	2,864.1	0.00	0.00	0.00
12,100.0	89.97	180.47	8,992.3	-2,949.0	552.5	2,964.0	0.00	0.00	0.00
12,200.0	89.97	180.47	8,992.3	-3,049.0	551.7	3,064.0	0.00	0.00	0.00
12,300.0	89.97	180.47	8,992.4	-3,149.0	550.8	3,163.9	0.00	0.00	0.00
12,400.0	89.97	180.47	8,992.4	-3,249.0	550.0	3,263.8	0.00	0.00	0.00
12,500.0	89.97	180.47	8,992.5	-3,349.0	549.2	3,363.7	0.00	0.00	0.00
12,600.0	89.97	180.47	8,992.5	-3,449.0	548.4	3,463.7	0.00	0.00	0.00
12,700.0	89.97	180.47	8,992.5	-3,549.0	547.5	3,563.6	0.00	0.00	0.00
12,800.0	89.97	180.47	8,992.6	-3,649.0	546.7	3,663.5	0.00	0.00	0.00
12,900.0	89.97	180.47	8,992.6	-3,749.0	545.9	3,763.5	0.00	0.00	0.00
13,000.0	89.97	180.47	8,992.7	-3,849.0	545.1	3,863.4	0.00	0.00	0.00
13,100.0	89.97	180.47	8,992.7	-3,949.0	544.2	3,963.3	0.00	0.00	0.00
13,200.0	89.97	180.47	8,992.8	-4,048.9	543.4	4,063.2	0.00	0.00	0.00
13,300.0	89.97	180.47	8,992.8	-4,148.9	542.6	4,163.2	0.00	0.00	0.00
13,400.0	89.97	180.47	8,992.9	-4,248.9	541.8	4,263.1	0.00	0.00	0.00
13,500.0	89.97	180.47	8,992.9	-4,348.9	540.9	4,363.0	0.00	0.00	0.00
13,600.0	89.97	180.47	8,993.0	-4,448.9	540.1	4,463.0	0.00	0.00	0.00
13,700.0	89.97	180.47	8,993.0	-4,548.9	539.3	4,562.9	0.00	0.00	0.00
13,800.0	89.97	180.47	8,993.1	-4,648.9	538.5	4,662.8	0.00	0.00	0.00
13,900.0	89.97	180.47	8,993.1	-4,748.9	537.6	4,762.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #701H	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)
14,000.0	89.97	180.47	8,993.2	-4,848.9	536.8	4,862.7	0.00	0.00	0.00
14,100.0	89.97	180.47	8,993.2	-4,948.9	536.0	4,962.6	0.00	0.00	0.00
14,200.0	89.97	180.47	8,993.2	-5,048.9	535.2	5,062.5	0.00	0.00	0.00
14,300.0	89.97	180.47	8,993.3	-5,148.9	534.3	5,162.5	0.00	0.00	0.00
14,400.0	89.97	180.47	8,993.3	-5,248.9	533.5	5,262.4	0.00	0.00	0.00
14,500.0	89.97	180.47	8,993.4	-5,348.9	532.7	5,362.3	0.00	0.00	0.00
14,600.0	89.97	180.47	8,993.4	-5,448.9	531.9	5,462.2	0.00	0.00	0.00
14,700.0	89.97	180.47	8,993.5	-5,548.9	531.0	5,562.2	0.00	0.00	0.00
14,800.0	89.97	180.47	8,993.5	-5,648.9	530.2	5,662.1	0.00	0.00	0.00
14,900.0	89.97	180.47	8,993.6	-5,748.9	529.4	5,762.0	0.00	0.00	0.00
15,000.0	89.97	180.47	8,993.6	-5,848.9	528.6	5,862.0	0.00	0.00	0.00
15,100.0	89.97	180.47	8,993.7	-5,948.9	527.7	5,961.9	0.00	0.00	0.00
15,200.0	89.97	180.47	8,993.7	-6,048.9	526.9	6,061.8	0.00	0.00	0.00
15,300.0	89.97	180.47	8,993.8	-6,148.9	526.1	6,161.7	0.00	0.00	0.00
15,400.0	89.97	180.47	8,993.8	-6,248.9	525.3	6,261.7	0.00	0.00	0.00
15,500.0	89.97	180.47	8,993.8	-6,348.9	524.4	6,361.6	0.00	0.00	0.00
15,600.0	89.97	180.47	8,993.9	-6,448.9	523.6	6,461.5	0.00	0.00	0.00
15,700.0	89.97	180.47	8,993.9	-6,548.9	522.8	6,561.5	0.00	0.00	0.00
15,800.0	89.97	180.47	8,994.0	-6,648.9	522.0	6,661.4	0.00	0.00	0.00
15,900.0	89.97	180.47	8,994.0	-6,748.9	521.1	6,761.3	0.00	0.00	0.00
16,000.0	89.97	180.47	8,994.1	-6,848.9	520.3	6,861.2	0.00	0.00	0.00
16,100.0	89.97	180.47	8,994.1	-6,948.8	519.5	6,961.2	0.00	0.00	0.00
16,200.0	89.97	180.47	8,994.2	-7,048.8	518.7	7,061.1	0.00	0.00	0.00
16,300.0	89.97	180.47	8,994.2	-7,148.8	517.8	7,161.0	0.00	0.00	0.00
16,400.0	89.97	180.47	8,994.3	-7,248.8	517.0	7,261.0	0.00	0.00	0.00
16,500.0	89.97	180.47	8,994.3	-7,348.8	516.2	7,360.9	0.00	0.00	0.00
16,600.0	89.97	180.47	8,994.4	-7,448.8	515.4	7,460.8	0.00	0.00	0.00
16,700.0	89.97	180.47	8,994.4	-7,548.8	514.5	7,560.7	0.00	0.00	0.00
16,800.0	89.97	180.47	8,994.5	-7,648.8	513.7	7,660.7	0.00	0.00	0.00
16,900.0	89.97	180.47	8,994.5	-7,748.8	512.9	7,760.6	0.00	0.00	0.00
17,000.0	89.97	180.47	8,994.5	-7,848.8	512.1	7,860.5	0.00	0.00	0.00
17,100.0	89.97	180.47	8,994.6	-7,948.8	511.2	7,960.5	0.00	0.00	0.00
17,200.0	89.97	180.47	8,994.6	-8,048.8	510.4	8,060.4	0.00	0.00	0.00
17,300.0	89.97	180.47	8,994.7	-8,148.8	509.6	8,160.3	0.00	0.00	0.00
17,400.0	89.97	180.47	8,994.7	-8,248.8	508.7	8,260.2	0.00	0.00	0.00
17,500.0	89.97	180.47	8,994.8	-8,348.8	507.9	8,360.2	0.00	0.00	0.00
17,600.0	89.97	180.47	8,994.8	-8,448.8	507.1	8,460.1	0.00	0.00	0.00
17,700.0	89.97	180.47	8,994.9	-8,548.8	506.3	8,560.0	0.00	0.00	0.00
17,800.0	89.97	180.47	8,994.9	-8,648.8	505.4	8,660.0	0.00	0.00	0.00
17,900.0	89.97	180.47	8,995.0	-8,748.8	504.6	8,759.9	0.00	0.00	0.00
18,000.0	89.97	180.47	8,995.0	-8,848.8	503.8	8,859.8	0.00	0.00	0.00
18,100.0	89.97	180.47	8,995.1	-8,948.8	503.0	8,959.7	0.00	0.00	0.00
18,200.0	89.97	180.47	8,995.1	-9,048.8	502.1	9,059.7	0.00	0.00	0.00
18,300.0	89.97	180.47	8,995.2	-9,148.8	501.3	9,159.6	0.00	0.00	0.00
18,400.0	89.97	180.47	8,995.2	-9,248.8	500.5	9,259.5	0.00	0.00	0.00
18,500.0	89.97	180.47	8,995.2	-9,348.8	499.7	9,359.5	0.00	0.00	0.00
18,600.0	89.97	180.47	8,995.3	-9,448.8	498.8	9,459.4	0.00	0.00	0.00
18,700.0	89.97	180.47	8,995.3	-9,548.8	498.0	9,559.3	0.00	0.00	0.00
18,800.0	89.97	180.47	8,995.4	-9,648.8	497.2	9,659.2	0.00	0.00	0.00
18,900.0	89.97	180.47	8,995.4	-9,748.8	496.4	9,759.2	0.00	0.00	0.00
19,000.0	89.97	180.47	8,995.5	-9,848.8	495.5	9,859.1	0.00	0.00	0.00
19,100.0	89.97	180.47	8,995.5	-9,948.7	494.7	9,959.0	0.00	0.00	0.00
19,200.0	89.97	180.47	8,995.6	-10,048.7	493.9	10,058.9	0.00	0.00	0.00
19,300.0	89.97	180.47	8,995.6	-10,148.7	493.1	10,158.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #701H	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)
19,400.0	89.97	180.47	8,995.7	-10,248.7	492.2	10,258.8	0.00	0.00	0.00
19,500.0	89.97	180.47	8,995.7	-10,348.7	491.4	10,358.7	0.00	0.00	0.00
19,600.0	89.97	180.47	8,995.8	-10,448.7	490.6	10,458.7	0.00	0.00	0.00
19,700.0	89.97	180.47	8,995.8	-10,548.7	489.8	10,558.6	0.00	0.00	0.00
19,800.0	89.97	180.47	8,995.9	-10,648.7	488.9	10,658.5	0.00	0.00	0.00
19,900.0	89.97	180.47	8,995.9	-10,748.7	488.1	10,758.4	0.00	0.00	0.00
20,000.0	89.97	180.47	8,995.9	-10,848.7	487.3	10,858.4	0.00	0.00	0.00
20,100.0	89.97	180.47	8,996.0	-10,948.7	486.5	10,958.3	0.00	0.00	0.00
20,200.0	89.97	180.47	8,996.0	-11,048.7	485.6	11,058.2	0.00	0.00	0.00
20,300.0	89.97	180.47	8,996.1	-11,148.7	484.8	11,158.2	0.00	0.00	0.00
20,400.0	89.97	180.47	8,996.1	-11,248.7	484.0	11,258.1	0.00	0.00	0.00
20,500.0	89.97	180.47	8,996.2	-11,348.7	483.2	11,358.0	0.00	0.00	0.00
20,600.0	89.97	180.47	8,996.2	-11,448.7	482.3	11,457.9	0.00	0.00	0.00
20,700.0	89.97	180.47	8,996.3	-11,548.7	481.5	11,557.9	0.00	0.00	0.00
20,800.0	89.97	180.47	8,996.3	-11,648.7	480.7	11,657.8	0.00	0.00	0.00
20,900.0	89.97	180.47	8,996.4	-11,748.7	479.9	11,757.7	0.00	0.00	0.00
21,000.0	89.97	180.47	8,996.4	-11,848.7	479.0	11,857.7	0.00	0.00	0.00
21,100.0	89.97	180.47	8,996.5	-11,948.7	478.2	11,957.6	0.00	0.00	0.00
21,200.0	89.97	180.47	8,996.5	-12,048.7	477.4	12,057.5	0.00	0.00	0.00
21,300.0	89.97	180.47	8,996.6	-12,148.7	476.6	12,157.4	0.00	0.00	0.00
21,400.0	89.97	180.47	8,996.6	-12,248.7	475.7	12,257.4	0.00	0.00	0.00
21,500.0	89.97	180.47	8,996.6	-12,348.7	474.9	12,357.3	0.00	0.00	0.00
21,600.0	89.97	180.47	8,996.7	-12,448.7	474.1	12,457.2	0.00	0.00	0.00
21,700.0	89.97	180.47	8,996.7	-12,548.7	473.3	12,557.2	0.00	0.00	0.00
21,800.0	89.97	180.47	8,996.8	-12,648.7	472.4	12,657.1	0.00	0.00	0.00
21,900.0	89.97	180.47	8,996.8	-12,748.7	471.6	12,757.0	0.00	0.00	0.00
22,000.0	89.97	180.47	8,996.9	-12,848.6	470.8	12,856.9	0.00	0.00	0.00
22,100.0	89.97	180.47	8,996.9	-12,948.6	470.0	12,956.9	0.00	0.00	0.00
22,200.0	89.97	180.47	8,997.0	-13,048.6	469.1	13,056.8	0.00	0.00	0.00
22,300.0	89.97	180.47	8,997.0	-13,148.6	468.3	13,156.7	0.00	0.00	0.00
22,400.0	89.97	180.47	8,997.1	-13,248.6	467.5	13,256.7	0.00	0.00	0.00
22,500.0	89.97	180.47	8,997.1	-13,348.6	466.7	13,356.6	0.00	0.00	0.00
22,600.0	89.97	180.47	8,997.2	-13,448.6	465.8	13,456.5	0.00	0.00	0.00
22,700.0	89.97	180.47	8,997.2	-13,548.6	465.0	13,556.4	0.00	0.00	0.00
22,800.0	89.97	180.47	8,997.3	-13,648.6	464.2	13,656.4	0.00	0.00	0.00
22,900.0	89.97	180.47	8,997.3	-13,748.6	463.4	13,756.3	0.00	0.00	0.00
23,000.0	89.97	180.47	8,997.3	-13,848.6	462.5	13,856.2	0.00	0.00	0.00
23,100.0	89.97	180.47	8,997.4	-13,948.6	461.7	13,956.2	0.00	0.00	0.00
23,200.0	89.97	180.47	8,997.4	-14,048.6	460.9	14,056.1	0.00	0.00	0.00
23,300.0	89.97	180.47	8,997.5	-14,148.6	460.1	14,156.0	0.00	0.00	0.00
23,400.0	89.97	180.47	8,997.5	-14,248.6	459.2	14,255.9	0.00	0.00	0.00
23,500.0	89.97	180.47	8,997.6	-14,348.6	458.4	14,355.9	0.00	0.00	0.00
23,600.0	89.97	180.47	8,997.6	-14,448.6	457.6	14,455.8	0.00	0.00	0.00
23,700.0	89.97	180.47	8,997.7	-14,548.6	456.8	14,555.7	0.00	0.00	0.00
23,800.0	89.97	180.47	8,997.7	-14,648.6	455.9	14,655.7	0.00	0.00	0.00
23,900.0	89.97	180.47	8,997.8	-14,748.6	455.1	14,755.6	0.00	0.00	0.00
24,000.0	89.97	180.47	8,997.8	-14,848.6	454.3	14,855.5	0.00	0.00	0.00
24,100.0	89.97	180.47	8,997.9	-14,948.6	453.5	14,955.4	0.00	0.00	0.00
24,200.0	89.97	180.47	8,997.9	-15,048.6	452.6	15,055.4	0.00	0.00	0.00
24,275.8	89.97	180.47	8,997.9	-15,124.4	452.0	15,131.2	0.00	0.00	0.00
Start 130.1 hold at 24275.8 MD									
24,300.0	89.97	180.47	8,998.0	-15,148.6	451.8	15,155.3	0.00	0.00	0.00
24,405.9	89.97	180.47	8,998.0	-15,254.5	450.9	15,261.2	0.00	0.00	0.00
TD at 24405.9									

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #701H
Company:	DELAWARE BASIN WEST	TVD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*RKB 32ft + GL 3129.3ft @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #701H	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)

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VT (FLAMING SNAIL FE - plan hits target center - Circle (radius 25.0)	0.00	0.00	8,418.0	335.3	509.7	402,810.60	545,224.50	32° 6' 26.490 N	104° 11' 14.190 W
FTP (FLAMING SNAIL F - plan misses target center by 243.2usft at 8944.8usft MD (8829.4 TVD, 161.9 N, 525.3 E) - Circle (radius 50.0)	0.00	0.00	8,991.0	335.3	579.7	402,810.60	545,294.50	32° 6' 26.489 N	104° 11' 13.376 W
LTP (FLAMING SNAIL F - plan hits target center - Point	0.00	0.00	8,997.9	-15,124.4	452.0	387,350.90	545,166.80	32° 3' 53.493 N	104° 11' 15.104 W
PBHL (FLAMING SNAIL - plan misses target center by 0.1usft at 24405.9usft MD (8998.0 TVD, -15254.5 N, 450.9 E) - Rectangle (sides W100.0 H15,590.3 D20.0)	0.03	0.47	8,998.0	-15,254.5	451.0	387,220.80	545,165.80	32° 3' 52.205 N	104° 11' 15.117 W

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00	
2,199.8	2,192.9	46.7	71.1	Start 1819.3 hold at 2199.8 MD	
4,019.1	3,958.1	288.6	438.6	Start Drop -2.00	
4,718.9	4,651.0	335.3	509.7	Start 3767.0 hold at 4718.9 MD	
8,485.9	8,418.0	335.3	509.7	Start Build 10.00	
9,385.7	8,991.0	-235.1	561.1	Start DLS 2.00 TFO 90.00	
9,666.8	8,991.1	-515.9	572.6	Start 14609.0 hold at 9666.8 MD	
24,275.8	8,997.9	-15,124.4	452.0	Start 130.1 hold at 24275.8 MD	
24,405.9	8,998.0	-15,254.5	450.9	TD at 24405.9	

 COMPANY: DELAWARE BASIN WEST
 FIELD: ATLAS PROSPECT (NM-E)
 WELL NAME: FLAMING SNAIL FEDERAL COM #701H
 UWI:
 WELLBORE NAME: OWB
 Survey Name: PWP1
 Extraction Date: 9/24/2022

Calculation Method: Minimum Curvature
 Datum Name: *RKB 32ft + GL 3129.3ft
 LAT Reference: Well

Slot EW Map (us/ft): 544714.800
 Slot NS Map (us/ft): 402475.300
 Surface Latitude Map: 32° 6' 23.178 N
 Surface Longitude Map: 104° 11' 20.121 W
 Bottom Hole MD (us/ft): 24405.94
 Bottom Hole TVD (us/ft): 8998.00
 Bottom Hole EW Map (us/ft): 545165.726
 Bottom Hole NS Map (us/ft): 387220.798

GL Elevation: 3129.30
 KB Elevation: 3161.30

MAGNETIC CALCULATION DATE....: 01-Dec-2023
 Map-Zone: New Mexico East 3001
 North Reference: Grid
 Grid Convergence at Surface is 0.077°.
 Total Correction: 6.70
 Magnetic dip: 59.68
 Magnetic field strength: 47317.53
 Geo Datum: NAD 1927 (NADCON CONUS)
 VSDIR: 178.31
 H-----

H SURVEY TYPE INFORMATION
 H 0.00 - 1500.00 PWP1 : R.5 SDI_KPR_WL_NS-CT
 H 1500.00 - 8485.90 PWP1 : R.5 MWD+IFR1
 H 8485.90 - 24405.94 PWP1 : R.5 MWD+IFR1+MS

Measured Depth (ft)	Incl.	Azim.	TVD (ft)	NS (ft)	EW (ft)	Vertical Section (ft)	Dogleg Rate (dega/100ft)	Easting
0	0	0	0	0	0	0	0	0 544714.8

100	0	0	100	0	0	0	0	544714.8
200	0	0	200	0	0	0	0	544714.8
300	0	0	300	0	0	0	0	544714.8
400	0	0	400	0	0	0	0	544714.8
500	0	0	500	0	0	0	0	544714.8
600	0	0	600	0	0	0	0	544714.8
700	0	0	700	0	0	0	0	544714.8
800	0	0	800	0	0	0	0	544714.8
900	0	0	900	0	0	0	0	544714.8
1000	0	0	1000	0	0	0	0	544714.8
1100	0	0	1100	0	0	0	0	544714.8
1200	0	0	1200	0	0	0	0	544714.8
1300	0	0	1300	0	0	0	0	544714.8
1400	0	0	1400	0	0	0	0	544714.8
1500	0	0	1500	0	0	0	0	544714.8
1600	2	56.662	1599.98	0.96	1.46	-0.92	2	544716.3
1700	4	56.662	1699.84	3.84	5.83	-3.66	2	544720.6
1800	6	56.662	1799.45	8.62	13.11	-8.23	2	544727.9
1900	8	56.662	1898.7	15.32	23.29	-14.63	2	544738.1
2000	10	56.662	1997.47	23.92	36.36	-22.83	2	544751.2
2100	12	56.662	2095.62	34.41	52.3	-32.84	2	544767.1
2199.8	13.996	56.662	2192.86	46.74	71.05	-44.62	2	544785.9
2300	13.996	56.662	2290.09	60.06	91.3	-57.34	0	544806.1
2400	13.996	56.662	2387.12	73.35	111.5	-70.02	0	544826.3
2500	13.996	56.662	2484.15	86.64	131.71	-82.71	0	544846.5
2600	13.996	56.662	2581.18	99.94	151.91	-95.4	0	544866.7
2700	13.996	56.662	2678.21	113.23	172.12	-108.09	0	544886.9
2800	13.996	56.662	2775.24	126.52	192.33	-120.78	0	544907.1
2900	13.996	56.662	2872.27	139.81	212.53	-133.47	0	544927.3
3000	13.996	56.662	2969.31	153.1	232.74	-146.16	0	544947.5
3100	13.996	56.662	3066.34	166.39	252.94	-158.85	0	544967.7
3200	13.996	56.662	3163.37	179.69	273.15	-171.54	0	544987.9
3300	13.996	56.662	3260.4	192.98	293.35	-184.23	0	545008.2
3400	13.996	56.662	3357.43	206.27	313.56	-196.91	0	545028.4
3500	13.996	56.662	3454.46	219.56	333.76	-209.6	0	545048.6
3600	13.996	56.662	3551.49	232.85	353.97	-222.29	0	545068.8
3700	13.996	56.662	3648.52	246.15	374.17	-234.98	0	545089
3800	13.996	56.662	3745.56	259.44	394.38	-247.67	0	545109.2
3900	13.996	56.662	3842.59	272.73	414.59	-260.36	0	545129.4
4000	13.996	56.662	3939.62	286.02	434.79	-273.05	0	545149.6
4019.09	13.996	56.662	3958.14	288.56	438.65	-275.47	0	545153.4
4100	12.378	56.662	4036.91	298.7	454.07	-285.15	2	545168.9
4200	10.378	56.662	4134.94	309.54	470.55	-295.5	2	545185.3
4300	8.378	56.662	4233.6	318.5	484.16	-304.05	2	545199
4400	6.378	56.662	4332.77	325.56	494.89	-310.79	2	545209.7
4500	4.378	56.662	4432.33	330.71	502.72	-315.71	2	545217.5
4600	2.378	56.662	4532.15	333.94	507.64	-318.8	2	545222.4

4700	0.378	56.662	4632.11	335.27	509.65	-320.06	2	545224.4
4718.89	0	0	4651	335.3	509.7	-320.09	2	545224.5
4800	0	0	4732.11	335.3	509.7	-320.09	0	545224.5
4900	0	0	4832.11	335.3	509.7	-320.09	0	545224.5
5000	0	0	4932.11	335.3	509.7	-320.09	0	545224.5
5100	0	0	5032.11	335.3	509.7	-320.09	0	545224.5
5200	0	0	5132.11	335.3	509.7	-320.09	0	545224.5
5300	0	0	5232.11	335.3	509.7	-320.09	0	545224.5
5400	0	0	5332.11	335.3	509.7	-320.09	0	545224.5
5500	0	0	5432.11	335.3	509.7	-320.09	0	545224.5
5600	0	0	5532.11	335.3	509.7	-320.09	0	545224.5
5700	0	0	5632.11	335.3	509.7	-320.09	0	545224.5
5800	0	0	5732.11	335.3	509.7	-320.09	0	545224.5
5900	0	0	5832.11	335.3	509.7	-320.09	0	545224.5
6000	0	0	5932.11	335.3	509.7	-320.09	0	545224.5
6100	0	0	6032.11	335.3	509.7	-320.09	0	545224.5
6200	0	0	6132.11	335.3	509.7	-320.09	0	545224.5
6300	0	0	6232.11	335.3	509.7	-320.09	0	545224.5
6400	0	0	6332.11	335.3	509.7	-320.09	0	545224.5
6500	0	0	6432.11	335.3	509.7	-320.09	0	545224.5
6600	0	0	6532.11	335.3	509.7	-320.09	0	545224.5
6700	0	0	6632.11	335.3	509.7	-320.09	0	545224.5
6800	0	0	6732.11	335.3	509.7	-320.09	0	545224.5
6900	0	0	6832.11	335.3	509.7	-320.09	0	545224.5
7000	0	0	6932.11	335.3	509.7	-320.09	0	545224.5
7100	0	0	7032.11	335.3	509.7	-320.09	0	545224.5
7200	0	0	7132.11	335.3	509.7	-320.09	0	545224.5
7300	0	0	7232.11	335.3	509.7	-320.09	0	545224.5
7400	0	0	7332.11	335.3	509.7	-320.09	0	545224.5
7500	0	0	7432.11	335.3	509.7	-320.09	0	545224.5
7600	0	0	7532.11	335.3	509.7	-320.09	0	545224.5
7700	0	0	7632.11	335.3	509.7	-320.09	0	545224.5
7800	0	0	7732.11	335.3	509.7	-320.09	0	545224.5
7900	0	0	7832.11	335.3	509.7	-320.09	0	545224.5
8000	0	0	7932.11	335.3	509.7	-320.09	0	545224.5
8100	0	0	8032.11	335.3	509.7	-320.09	0	545224.5
8200	0	0	8132.11	335.3	509.7	-320.09	0	545224.5
8300	0	0	8232.11	335.3	509.7	-320.09	0	545224.5
8400	0	0	8332.11	335.3	509.7	-320.09	0	545224.5
8485.93	0	0	8418.04	335.3	509.7	-320.09	0	545224.5
8500	1.407	174.85	8432.11	335.13	509.72	-319.92	10	545224.5
8550	6.407	174.85	8481.98	331.74	510.02	-316.52	10	545224.8
8600	11.407	174.85	8531.36	324.03	510.72	-308.79	10	545225.5
8650	16.407	174.85	8579.88	312.06	511.79	-296.8	10	545226.6
8700	21.407	174.85	8627.17	295.93	513.25	-280.64	10	545228
8750	26.407	174.85	8672.86	275.76	515.07	-260.42	10	545229.9
8800	31.407	174.85	8716.62	251.69	517.24	-236.3	10	545232

8850	36.407	174.85	8758.1	223.92	519.74	-208.47	10	545234.5
8900	41.407	174.85	8797	192.66	522.56	-177.13	10	545237.4
8950	46.407	174.85	8833.01	158.13	525.67	-142.53	10	545240.5
9000	51.407	174.85	8865.86	120.61	529.05	-104.93	10	545243.8
9050	56.407	174.85	8895.31	80.39	532.67	-64.61	10	545247.5
9100	61.407	174.85	8921.12	37.76	536.52	-21.89	10	545251.3
9150	66.407	174.85	8943.11	-6.95	540.55	22.92	10	545255.3
9200	71.407	174.85	8961.1	-53.4	544.73	69.47	10	545259.5
9250	76.407	174.85	8974.95	-101.23	549.04	117.41	10	545263.8
9300	81.407	174.85	8984.57	-150.08	553.45	166.37	10	545268.2
9350	86.407	174.85	8989.87	-199.58	557.91	215.98	10	545272.7
9385.66	89.973	174.85	8991	-235.08	561.11	251.56	10	545275.9
9400	89.973	175.137	8991.01	-249.36	562.36	265.87	2	545277.2
9500	89.973	177.137	8991.05	-349.13	569.1	365.79	2	545283.9
9600	89.973	179.137	8991.1	-449.07	572.35	465.79	2	545287.1
9666.8	89.973	180.473	8991.13	-515.87	572.57	532.57	2	545287.4
9700	89.973	180.473	8991.15	-549.07	572.3	565.74	0	545287.1
9800	89.973	180.473	8991.19	-649.06	571.47	665.67	0	545286.3
9900	89.973	180.473	8991.24	-749.06	570.65	765.6	0	545285.4
10000	89.973	180.473	8991.29	-849.06	569.82	865.53	0	545284.6
10100	89.973	180.473	8991.33	-949.05	569	965.45	0	545283.8
10200	89.973	180.473	8991.38	-1049.05	568.17	1065.38	0	545283
10300	89.973	180.473	8991.43	-1149.05	567.35	1165.31	0	545282.1
10400	89.973	180.473	8991.47	-1249.04	566.52	1265.24	0	545281.3
10500	89.973	180.473	8991.52	-1349.04	565.7	1365.17	0	545280.5
10600	89.973	180.473	8991.57	-1449.04	564.87	1465.1	0	545279.7
10700	89.973	180.473	8991.61	-1549.03	564.05	1565.03	0	545278.8
10800	89.973	180.473	8991.66	-1649.03	563.22	1664.95	0	545278
10900	89.973	180.473	8991.71	-1749.03	562.4	1764.88	0	545277.2
11000	89.973	180.473	8991.75	-1849.02	561.57	1864.81	0	545276.4
11100	89.973	180.473	8991.8	-1949.02	560.75	1964.74	0	545275.5
11200	89.973	180.473	8991.85	-2049.02	559.92	2064.67	0	545274.7
11300	89.973	180.473	8991.89	-2149.01	559.09	2164.6	0	545273.9
11400	89.973	180.473	8991.94	-2249.01	558.27	2264.53	0	545273.1
11500	89.973	180.473	8991.99	-2349.01	557.44	2364.45	0	545272.2
11600	89.973	180.473	8992.03	-2449	556.62	2464.38	0	545271.4
11700	89.973	180.473	8992.08	-2549	555.79	2564.31	0	545270.6
11800	89.973	180.473	8992.13	-2649	554.97	2664.24	0	545269.8
11900	89.973	180.473	8992.17	-2748.99	554.14	2764.17	0	545268.9
12000	89.973	180.473	8992.22	-2848.99	553.32	2864.1	0	545268.1
12100	89.973	180.473	8992.27	-2948.99	552.49	2964.03	0	545267.3
12200	89.973	180.473	8992.31	-3048.98	551.67	3063.95	0	545266.5
12300	89.973	180.473	8992.36	-3148.98	550.84	3163.88	0	545265.6
12400	89.973	180.473	8992.41	-3248.98	550.02	3263.81	0	545264.8
12500	89.973	180.473	8992.45	-3348.97	549.19	3363.74	0	545264
12600	89.973	180.473	8992.5	-3448.97	548.36	3463.67	0	545263.2
12700	89.973	180.473	8992.55	-3548.97	547.54	3563.6	0	545262.3

12800	89.973	180.473	8992.59	-3648.96	546.71	3663.52	0	545261.5
12900	89.973	180.473	8992.64	-3748.96	545.89	3763.45	0	545260.7
13000	89.973	180.473	8992.68	-3848.96	545.06	3863.38	0	545259.9
13100	89.973	180.473	8992.73	-3948.95	544.24	3963.31	0	545259
13200	89.973	180.473	8992.78	-4048.95	543.41	4063.24	0	545258.2
13300	89.973	180.473	8992.82	-4148.94	542.59	4163.17	0	545257.4
13400	89.973	180.473	8992.87	-4248.94	541.76	4263.1	0	545256.6
13500	89.973	180.473	8992.92	-4348.94	540.94	4363.02	0	545255.7
13600	89.973	180.473	8992.96	-4448.93	540.11	4462.95	0	545254.9
13700	89.973	180.473	8993.01	-4548.93	539.29	4562.88	0	545254.1
13800	89.973	180.473	8993.06	-4648.93	538.46	4662.81	0	545253.3
13900	89.973	180.473	8993.1	-4748.92	537.64	4762.74	0	545252.4
14000	89.973	180.473	8993.15	-4848.92	536.81	4862.67	0	545251.6
14100	89.973	180.473	8993.2	-4948.92	535.98	4962.6	0	545250.8
14200	89.973	180.473	8993.24	-5048.91	535.16	5062.52	0	545250
14300	89.973	180.473	8993.29	-5148.91	534.33	5162.45	0	545249.1
14400	89.973	180.473	8993.34	-5248.91	533.51	5262.38	0	545248.3
14500	89.973	180.473	8993.38	-5348.9	532.68	5362.31	0	545247.5
14600	89.973	180.473	8993.43	-5448.9	531.86	5462.24	0	545246.7
14700	89.973	180.473	8993.48	-5548.9	531.03	5562.17	0	545245.8
14800	89.973	180.473	8993.52	-5648.89	530.21	5662.1	0	545245
14900	89.973	180.473	8993.57	-5748.89	529.38	5762.02	0	545244.2
15000	89.973	180.473	8993.62	-5848.89	528.56	5861.95	0	545243.4
15100	89.973	180.473	8993.66	-5948.88	527.73	5961.88	0	545242.5
15200	89.973	180.473	8993.71	-6048.88	526.91	6061.81	0	545241.7
15300	89.973	180.473	8993.76	-6148.88	526.08	6161.74	0	545240.9
15400	89.973	180.473	8993.8	-6248.87	525.26	6261.67	0	545240.1
15500	89.973	180.473	8993.85	-6348.87	524.43	6361.59	0	545239.2
15600	89.973	180.473	8993.9	-6448.87	523.6	6461.52	0	545238.4
15700	89.973	180.473	8993.94	-6548.86	522.78	6561.45	0	545237.6
15800	89.973	180.473	8993.99	-6648.86	521.95	6661.38	0	545236.8
15900	89.973	180.473	8994.04	-6748.86	521.13	6761.31	0	545235.9
16000	89.973	180.473	8994.08	-6848.85	520.3	6861.24	0	545235.1
16100	89.973	180.473	8994.13	-6948.85	519.48	6961.17	0	545234.3
16200	89.973	180.473	8994.18	-7048.85	518.65	7061.09	0	545233.5
16300	89.973	180.473	8994.22	-7148.84	517.83	7161.02	0	545232.6
16400	89.973	180.473	8994.27	-7248.84	517	7260.95	0	545231.8
16500	89.973	180.473	8994.32	-7348.84	516.18	7360.88	0	545231
16600	89.973	180.473	8994.36	-7448.83	515.35	7460.81	0	545230.2
16700	89.973	180.473	8994.41	-7548.83	514.53	7560.74	0	545229.3
16800	89.973	180.473	8994.46	-7648.83	513.7	7660.67	0	545228.5
16900	89.973	180.473	8994.5	-7748.82	512.88	7760.59	0	545227.7
17000	89.973	180.473	8994.55	-7848.82	512.05	7860.52	0	545226.9
17100	89.973	180.473	8994.6	-7948.82	511.22	7960.45	0	545226
17200	89.973	180.473	8994.64	-8048.81	510.4	8060.38	0	545225.2
17300	89.973	180.473	8994.69	-8148.81	509.57	8160.31	0	545224.4
17400	89.973	180.473	8994.74	-8248.8	508.75	8260.24	0	545223.5

17500	89.973	180.473	8994.78	-8348.8	507.92	8360.17	0	545222.7
17600	89.973	180.473	8994.83	-8448.8	507.1	8460.09	0	545221.9
17700	89.973	180.473	8994.87	-8548.79	506.27	8560.02	0	545221.1
17800	89.973	180.473	8994.92	-8648.79	505.45	8659.95	0	545220.2
17900	89.973	180.473	8994.97	-8748.79	504.62	8759.88	0	545219.4
18000	89.973	180.473	8995.01	-8848.78	503.8	8859.81	0	545218.6
18100	89.973	180.473	8995.06	-8948.78	502.97	8959.74	0	545217.8
18200	89.973	180.473	8995.11	-9048.78	502.15	9059.66	0	545216.9
18300	89.973	180.473	8995.15	-9148.77	501.32	9159.59	0	545216.1
18400	89.973	180.473	8995.2	-9248.77	500.5	9259.52	0	545215.3
18500	89.973	180.473	8995.25	-9348.77	499.67	9359.45	0	545214.5
18600	89.973	180.473	8995.29	-9448.76	498.84	9459.38	0	545213.6
18700	89.973	180.473	8995.34	-9548.76	498.02	9559.31	0	545212.8
18800	89.973	180.473	8995.39	-9648.76	497.19	9659.24	0	545212
18900	89.973	180.473	8995.43	-9748.75	496.37	9759.16	0	545211.2
19000	89.973	180.473	8995.48	-9848.75	495.54	9859.09	0	545210.3
19100	89.973	180.473	8995.53	-9948.75	494.72	9959.02	0	545209.5
19200	89.973	180.473	8995.57	-10048.7	493.89	10058.95	0	545208.7
19300	89.973	180.473	8995.62	-10148.7	493.07	10158.88	0	545207.9
19400	89.973	180.473	8995.67	-10248.7	492.24	10258.81	0	545207
19500	89.973	180.473	8995.71	-10348.7	491.42	10358.74	0	545206.2
19600	89.973	180.473	8995.76	-10448.7	490.59	10458.66	0	545205.4
19700	89.973	180.473	8995.81	-10548.7	489.77	10558.59	0	545204.6
19800	89.973	180.473	8995.85	-10648.7	488.94	10658.52	0	545203.7
19900	89.973	180.473	8995.9	-10748.7	488.12	10758.45	0	545202.9
20000	89.973	180.473	8995.95	-10848.7	487.29	10858.38	0	545202.1
20100	89.973	180.473	8995.99	-10948.7	486.46	10958.31	0	545201.3
20200	89.973	180.473	8996.04	-11048.7	485.64	11058.24	0	545200.4
20300	89.973	180.473	8996.09	-11148.7	484.81	11158.16	0	545199.6
20400	89.973	180.473	8996.13	-11248.7	483.99	11258.09	0	545198.8
20500	89.973	180.473	8996.18	-11348.7	483.16	11358.02	0	545198
20600	89.973	180.473	8996.23	-11448.7	482.34	11457.95	0	545197.1
20700	89.973	180.473	8996.27	-11548.7	481.51	11557.88	0	545196.3
20800	89.973	180.473	8996.32	-11648.7	480.69	11657.81	0	545195.5
20900	89.973	180.473	8996.37	-11748.7	479.86	11757.73	0	545194.7
21000	89.973	180.473	8996.41	-11848.7	479.04	11857.66	0	545193.8
21100	89.973	180.473	8996.46	-11948.7	478.21	11957.59	0	545193
21200	89.973	180.473	8996.51	-12048.7	477.39	12057.52	0	545192.2
21300	89.973	180.473	8996.55	-12148.7	476.56	12157.45	0	545191.4
21400	89.973	180.473	8996.6	-12248.7	475.74	12257.38	0	545190.5
21500	89.973	180.473	8996.65	-12348.7	474.91	12357.31	0	545189.7
21600	89.973	180.473	8996.69	-12448.7	474.08	12457.23	0	545188.9
21700	89.973	180.473	8996.74	-12548.7	473.26	12557.16	0	545188.1
21800	89.973	180.473	8996.79	-12648.7	472.43	12657.09	0	545187.2
21900	89.973	180.473	8996.83	-12748.7	471.61	12757.02	0	545186.4
22000	89.973	180.473	8996.88	-12848.7	470.78	12856.95	0	545185.6
22100	89.973	180.473	8996.93	-12948.6	469.96	12956.88	0	545184.8

22200	89.973	180.473	8996.97	-13048.6	469.13	13056.81	0	545183.9
22300	89.973	180.473	8997.02	-13148.6	468.31	13156.73	0	545183.1
22400	89.973	180.473	8997.06	-13248.6	467.48	13256.66	0	545182.3
22500	89.973	180.473	8997.11	-13348.6	466.66	13356.59	0	545181.5
22600	89.973	180.473	8997.16	-13448.6	465.83	13456.52	0	545180.6
22700	89.973	180.473	8997.2	-13548.6	465.01	13556.45	0	545179.8
22800	89.973	180.473	8997.25	-13648.6	464.18	13656.38	0	545179
22900	89.973	180.473	8997.3	-13748.6	463.36	13756.31	0	545178.2
23000	89.973	180.473	8997.34	-13848.6	462.53	13856.23	0	545177.3
23100	89.973	180.473	8997.39	-13948.6	461.7	13956.16	0	545176.5
23200	89.973	180.473	8997.44	-14048.6	460.88	14056.09	0	545175.7
23300	89.973	180.473	8997.48	-14148.6	460.05	14156.02	0	545174.9
23400	89.973	180.473	8997.53	-14248.6	459.23	14255.95	0	545174
23500	89.973	180.473	8997.58	-14348.6	458.4	14355.88	0	545173.2
23600	89.973	180.473	8997.62	-14448.6	457.58	14455.8	0	545172.4
23700	89.973	180.473	8997.67	-14548.6	456.75	14555.73	0	545171.6
23800	89.973	180.473	8997.72	-14648.6	455.93	14655.66	0	545170.7
23900	89.973	180.473	8997.76	-14748.6	455.1	14755.59	0	545169.9
24000	89.973	180.473	8997.81	-14848.6	454.28	14855.52	0	545169.1
24100	89.973	180.473	8997.86	-14948.6	453.45	14955.45	0	545168.3
24200	89.973	180.473	8997.9	-15048.6	452.63	15055.38	0	545167.4
24275.83	89.973	180.473	8997.94	-15124.4	452	15131.15	0	545166.8
24300	89.973	180.473	8997.95	-15148.6	451.8	15155.3	0	545166.6
24405.94	89.973	180.473	8998	-15254.5	450.93	15261.17	0	545165.7

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402240.2 Start DLS 2.00 TFO 90.00
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401959.4 Start 14609.0 hold at 9666.8 MD
401926.2
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390526.6
390426.6
390326.6
390226.6
390126.6
390026.6
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388026.7
387926.7
387826.7
387726.7
387626.7
387526.7
387426.7
387350.9 Start 130.1 hold at 24275.8 MD
387326.7
387220.8 TD at 24405.9

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

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 701H
SURFACE HOLE FOOTAGE:	655'/N & 915'/E
BOTTOM HOLE FOOTAGE:	200'/S & 330'/E

COA

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

A. HYDROGEN SULFIDE

Hydrogen Sulfide (H2S) monitors shall be installed prior to drilling out the surface shoe. If H2S is detected in concentrations greater than 100 ppm, the Hydrogen Sulfide area shall meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, provide measured values and formations to the BLM.

B. CASING

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

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

Option 2:

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

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

Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.
- ❖ In High Cave/Karst Areas if cement does not circulate to surface on the first two casing strings, the cement on the 3rd casing string must come to surface.
3. The minimum required fill of cement behind the 5-1/2 inch production casing is:
- Cement should tie-back at least **200 feet** into previous casing string. Operator shall provide method of verification.

C. PRESSURE CONTROL

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

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

- a. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- b. Manufacturer representative shall install the test plug for the initial BOP test.
- c. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- d. Whenever any seal subject to test pressure is broken, all the tests in 43 CFR 3172.6(b)(9) must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

EMAIL or call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,

BLM_NM_CFO_DrillingNotifications@BLM.GOV

(575) 361-2822

☒ Lea County

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after installing and testing the wellhead, by installing a blind flange of like pressure rating to the wellhead and a pressure gauge that can be monitored while drilling is performed on the other well(s).
 - b. When the operator proposes to set surface casing with Spudder Rig
 - Notify the BLM when moving in and removing the Spudder Rig.
 - Notify the BLM when moving in the 2nd Rig. Rig to be moved in within 90 days of notification that Spudder Rig has left the location.
 - BOP/BOPE test to be conducted per Onshore Oil and Gas Order No. 2 as soon as 2nd Rig is rigged up on well.
2. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.
3. The record of the drilling rate along with the GR/N well log run from TD to surface (horizontal well – vertical portion of hole) shall be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

A. CASING

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

3. Wait on cement (WOC) for Water Basin: After cementing but before commencing any tests, the casing string shall stand cemented under pressure until both of the following conditions have been met: 1) cement reaches a minimum compressive strength of 500 psi at the shoe, 2) until cement has been in place at least 8 hours. WOC time will be recorded in the driller's log. See individual casing strings for details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.
4. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. Have well specific cement details onsite prior to pumping the cement for each casing string.
5. No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.
6. On that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Formation at the shoe shall be tested to a minimum of the mud weight equivalent anticipated to control the formation pressure to the next casing depth or at total depth of the well. This test shall be performed before drilling more than 20 feet of new hole.
7. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.
8. Whenever a casing string is cemented in the R-111-P potash area, the NMOCD requirements shall be followed.

B. PRESSURE CONTROL

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

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2

with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

- d. The test shall be run on a 5000 psi chart for a 2-3M BOP/BOP, on a 10000 psi chart for a 5M BOP/BOPE and on a 15000 psi chart for a 10M BOP/BOPE. If a linear chart is used, it shall be a one hour chart. A circular chart shall have a maximum 2 hour clock. If a twelve hour or twenty-four hour chart is used, tester shall make a notation that it is run with a two hour clock.
- e. The results of the test shall be reported to the appropriate BLM office.
- f. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- g. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug. This test shall be performed prior to the test at full stack pressure.
- h. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the Wolfcamp formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS071123

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 260526

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 260526
	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	9/1/2023
ward.rikala	Will require a File As Drilled C-102 and a Directional Survey with the C-104	9/1/2023
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	9/1/2023
ward.rikala	Cement is required to circulate on both surface and intermediate1 strings of casing	9/1/2023
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	9/1/2023