

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: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER 1b. Type of Well: <input checked="" type="checkbox"/> Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other 1c. Type of Completion: <input type="checkbox"/> Hydraulic Fracturing <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> 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 703H 9. API Well No. 30-015-54152
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 / 975 FEL / LAT 32.106557 / LONG -104.18961 At proposed prod. zone SESE / 330 FSL / 1300 FEL / LAT 32.064721 / LONG -104.191156		
14. Distance in miles and direction from nearest town or post office* 10 miles		12. County or Parish EDDY 13. State NM
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. 90 feet	19. Proposed Depth 8981 feet / 24298 feet 20. BLM/BIA Bond No. in file FED: NMB000215	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3129 feet	22. Approximate date work will start* 06/01/2024 23. Estimated duration 30 days	
24. Attachments		

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

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

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

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

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



(Continued on page 2)

*(Instructions on page 2)

Additional Operator Remarks

Location of Well

0. SHL: NENE / 655 FNL / 975 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106557 / LONG: -104.18961 (TVD: 0 feet, MD: 0 feet)
PPP: NENE / 330 FNL / 1300 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107436 / LONG: -104.190675 (TVD: 8806 feet, MD: 8885 feet)
PPP: SESE / 1319 FSL / 1300 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.09744 / LONG: -104.190788 (TVD: 8973 feet, MD: 12516 feet)
PPP: NESE / 2639 FSL / 1300 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.086398 / LONG: -104.190912 (TVD: 8976 feet, MD: 16476 feet)
PPP: NENE / 1 FNL / 1300 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079004 / LONG: -104.190995 (TVD: 8977 feet, MD: 19116 feet)
BHL: SESE / 330 FSL / 1300 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064721 / LONG: -104.191156 (TVD: 8981 feet, MD: 24298 feet)

BLM Point of Contact

Name: CIJI METHOLA
Title: GIS Support - Adjudicator
Phone: (575) 234-5924
Email: cmethola@blm.gov

CONFIDENTIAL

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

DISTRICT II
611 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- 54152	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 703H
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	975	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	1300	EAST	EDDY

Dedicated Acres 1920	Joint or Infill Infill	Consolidation Code Com	Order No.
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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

POINT LEGEND

1	Y=403157.2 N X=584167.1 E
2	Y=397865.4 N X=584219.5 E
3	Y=392510.6 N X=584098.1 E
4	Y=387159.0 N X=584041.7 E
5	Y=387066.3 N X=586676.4 E
6	Y=389785.9 N X=586717.2 E
7	Y=392505.1 N X=586757.1 E
8	Y=395211.5 N X=586824.5 E
9	Y=397922.4 N X=586887.6 E
10	Y=403203.7 N X=586802.6 E

OPERATOR CERTIFICATION

I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Stan Wagner 10/10/2002
Signature Date

Stan Wagner
Printed Name

E-mail Address

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

MAY 18, 2022
Date of Survey

Signature & Seal of Professional Surveyor

Chad Harcrow 6/9/22
Certificate No. CHAD HARCROW 17777
W.O. #22-501 DRAWN BY: AH

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

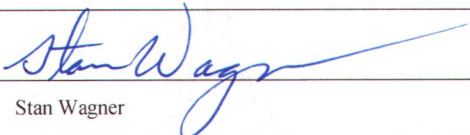
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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 703H

1. Geologic Formations

TVD of target	8,981' EOL	Pilot hole depth	NA
MD at TD:	24,298'	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	2174	Salt Water	
Bell Canyon	2222	Salt Water	
Cherry Canyon	3026	Oil/Gas	
Brushy Canyon	4133	Oil/Gas	
Bone Spring Lime	5716	Oil/Gas	
1st Bone Spring Sand	6654	Oil/Gas	
2nd Bone Spring Sand	7159	Oil/Gas	
3rd Bone Spring Sand	8483	Oil/Gas	
Wolfcamp	8815	Oil/Gas	
Wolfcamp A	8902	Target Oil/Gas	
0	0	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	500	10.75"	45.5	J55	BTC	9.13	1.77	31.43	34.99
9.875"	0	5500	7.625"	29.7	HCL80	BTC	2.42	1.39	4.18	4.41
8.750"	5500	8300	7.625"	29.7	HCP110	W513	1.72	1.92	3.81	2.26
6.75"	0	7800	5.5"	23	P110	TXP BTC	2.87	3.39	4.06	4.06
6.75"	7800	24,298	5.5"	23	P110	W441	2.49	2.94	3.53	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 703H

	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?	
If yes, does production casing cement tie back a minimum of 50' above the Reef?	N
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	N
Is well located in R-111-P and SOPA?	
If yes, are the first three strings cemented to surface?	N
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	
If yes, are there two strings cemented to surface?	N
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	
If yes, are there three strings cemented to surface?	N

COG Operating, LLC - Flaming Snail Federal Com 703H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	238	13.5	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter.	570	10.3	3.3	22	24	Halliburton tunded light
Stage 1	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
	1556	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 703H

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		
			Pipe Ram	x	3000psi
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	5M	5M Annular	x	2500psi
			Blind Ram		
			Pipe Ram	x	5000psi
			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 703H

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 703H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	5840 psi at 8981' 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	H2S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

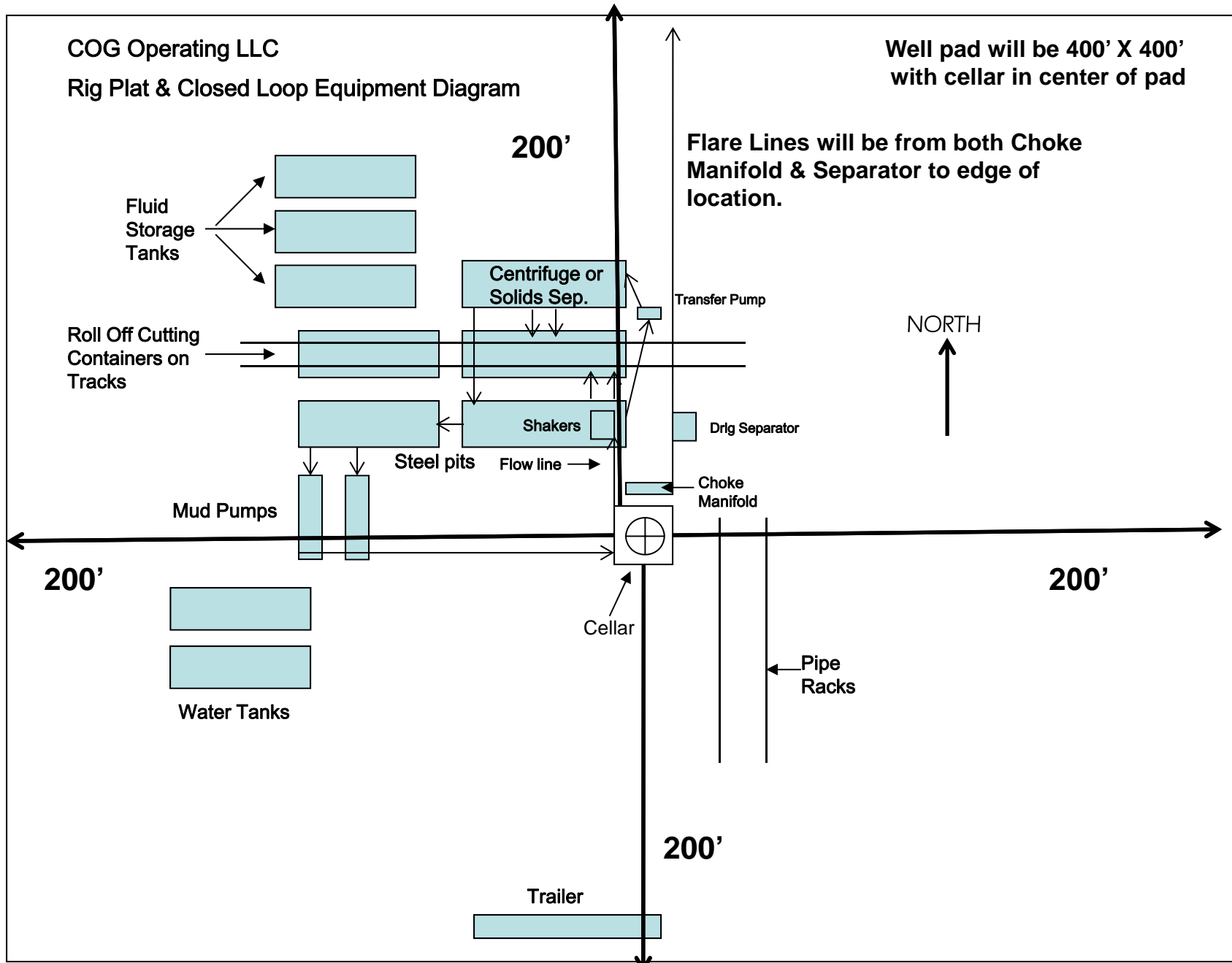


Exhibit 1

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #703H

OWB

PWP1

Anticollision Report

24 September, 2022

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

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

Survey Tool Program	Date	9/23/2022		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
0.0	1,500.0	PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT	SDI Keeper Wireline Gyrocomp.-Initilzd Cont. rev.5
1,500.0	8,432.4	PWP1 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1 rev.5
8,432.4	24,298.5	PWP1 (OWB)	r.5 MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction rev.5

Site Name Offset Well - Wellbore - Design	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #14H - OWB - AWP						Out of range
CICADA UNIT #15H - OWB - AWP						Out of range
CICADA UNIT #16H - OWB - AWP						Out of range
CICADA UNIT #17H - OWB - AWP						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	1,500.0	1,499.6	149.9	141.7	18.135	CC, ES
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	1,710.0	1,709.4	155.5	146.6	17.650	SF
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	4,338.2	4,364.3	67.2	49.5	3.808	CC
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	4,400.0	4,425.5	67.8	48.9	3.599	ES
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	4,600.0	4,623.3	78.8	54.6	3.255	SF
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,500.0	1,499.9	152.9	144.7	18.543	CC
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	1,520.0	1,519.9	153.0	144.7	18.453	ES
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,298.5	23,621.1	1,060.0	813.0	4.292	SF
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	1,500.0	1,500.0	60.0	51.1	6.758	CC, ES
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	24,298.5	24,379.7	969.9	731.6	4.070	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	1,500.0	1,499.9	30.0	21.1	3.379	CC, ES
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	24,298.5	24,307.7	485.0	247.3	2.040	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,500.0	1,500.0	30.0	21.1	3.379	CC
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	1,520.0	1,519.8	30.0	21.1	3.357	ES
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,298.5	24,323.6	485.2	246.2	2.031	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,500.0	1,499.9	60.0	51.1	6.758	CC
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	1,520.0	1,519.5	60.0	51.1	6.712	ES
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,298.5	24,345.4	970.3	729.9	4.036	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 #708H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	1,722.6	1,711.0	149.5	139.3	14.676	CC, ES
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,298.5	25,488.9	1,279.7	1,036.5	5.262	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,543.8	1,537.3	152.9	143.4	16.009	CC

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	1,700.0	1,685.7	153.4	143.2	15.009	ES
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,298.5	25,405.4	822.5	574.4	3.316	SF
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	2,077.1	2,049.9	150.5	138.7	12.679	CC
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	2,100.0	2,071.9	150.6	138.6	12.556	ES
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,298.5	25,430.7	1,124.9	880.5	4.604	SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1						Out of range
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1						Out of range
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	10,428.1	8,947.2	677.0	393.8	2.391	CC, ES
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	10,450.0	8,947.5	677.3	393.9	2.390	SF
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW						Out of range

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
CICADA UNIT #14H - OWB - AWP	24,298.5	9,121.5				Out of Range @TD
CICADA UNIT #15H - OWB - AWP	24,298.5	9,170.0				Out of Range @TD
CICADA UNIT #16H - OWB - AWP	24,298.5	9,164.3				Out of Range @TD
CICADA UNIT #17H - OWB - AWP	24,298.5	9,126.0				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	24,298.5	23,304.4				Out of Range @TD
FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0	24,298.5	23,231.8				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	24,298.5	23,199.3				Out of Range @TD
FLAMING SNAIL FEDERAL COM #504H - OWB - PWP0	24,298.5	23,120.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	24,298.5	23,621.1	1,060.0	813.0	4.292	SF
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	24,298.5	23,506.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1	24,298.5	24,379.7	969.9	731.6	4.070	SF
FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1	24,298.5	24,307.7	485.0	247.3	2.040	SF
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1	24,298.5	24,323.6	485.2	246.2	2.031	SF
FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1	24,298.5	24,345.4	970.3	729.9	4.036	SF
FLAMING SNAIL FEDERAL COM #706H - OWB - PWP1	24,298.5	24,278.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #707H - OWB - PWP1	24,298.5	24,197.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #708H - OWB - PWP1	24,298.5	24,170.7				Out of Range @TD
FLAMING SNAIL FEDERAL COM #709H - OWB - PWP1	24,298.5	24,202.6				Out of Range @TD
FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1	24,298.5	25,488.9	1,279.7	1,036.5	5.262	SF
FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1	24,298.5	25,405.4	822.5	574.4	3.316	SF
FLAMING SNAIL FEDERAL COM #803H - OWB - PWP1	24,298.5	25,430.7	1,124.9	880.5	4.604	SF
FLAMING SNAIL FEDERAL COM #804H - OWB - PWP1	24,298.5	25,359.2				Out of Range @TD
FLAMING SNAIL FEDERAL COM #805H - OWB - PWP1	24,298.5	25,284.5				Out of Range @TD
FLAMING SNAIL FEDERAL COM #806H - OWB - PWP1	24,298.5	25,330.7				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	24,298.5	8,955.4				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	24,298.5	7,054.0				Out of Range @TD

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7123-r.5 MWD+IFR1+MS										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)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0	179.08	-149.9	2.4	149.9				
95.0	95.0	94.6	94.6	3.0	3.0	179.08	-149.9	2.4	149.9	143.9	6.02	24.912	
100.0	100.0	99.6	99.6	3.0	3.0	179.08	-149.9	2.4	149.9	143.9	6.02	24.899	
190.0	190.0	189.6	189.6	3.1	3.0	179.08	-149.9	2.4	149.9	143.8	6.13	24.442	
200.0	200.0	199.6	199.6	3.1	3.0	179.08	-149.9	2.4	149.9	143.8	6.15	24.369	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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													Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor				
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
285.0	285.0	284.6	284.6	3.3	3.0	179.08	-149.9	2.4	149.9	143.7	6.26	23.931				
300.0	300.0	299.6	299.6	3.3	3.0	179.08	-149.9	2.4	149.9	143.6	6.29	23.844				
380.0	380.0	379.6	379.6	3.4	3.0	179.08	-149.9	2.4	149.9	143.5	6.40	23.433				
400.0	400.0	399.6	399.6	3.4	3.0	179.08	-149.9	2.4	149.9	143.5	6.43	23.323				
475.0	475.0	474.6	474.6	3.5	3.0	179.08	-149.9	2.4	149.9	143.4	6.54	22.940				
500.0	500.0	499.6	499.6	3.5	3.1	179.08	-149.9	2.4	149.9	143.3	6.57	22.808				
570.0	570.0	569.6	569.6	3.6	3.1	179.08	-149.9	2.4	149.9	143.2	6.68	22.454				
600.0	600.0	599.6	599.6	3.6	3.1	179.08	-149.9	2.4	149.9	143.2	6.72	22.299				
665.0	665.0	664.6	664.6	3.7	3.1	179.08	-149.9	2.4	149.9	143.1	6.82	21.975				
700.0	700.0	699.6	699.6	3.8	3.1	179.08	-149.9	2.4	149.9	143.0	6.88	21.797				
760.0	760.0	759.6	759.6	3.8	3.1	179.08	-149.9	2.4	149.9	142.9	6.97	21.503				
800.0	800.0	799.6	799.6	3.9	3.2	179.08	-149.9	2.4	149.9	142.9	7.04	21.304				
855.0	855.0	854.6	854.6	4.0	3.2	179.08	-149.9	2.4	149.9	142.8	7.13	21.039				
900.0	900.0	899.6	899.6	4.0	3.2	179.08	-149.9	2.4	149.9	142.7	7.20	20.820				
950.0	950.0	949.6	949.6	4.1	3.2	179.08	-149.9	2.4	149.9	142.6	7.28	20.583				
1,000.0	1,000.0	999.6	999.6	4.1	3.2	179.08	-149.9	2.4	149.9	142.6	7.37	20.346				
1,045.0	1,045.0	1,044.6	1,044.6	4.2	3.3	179.08	-149.9	2.4	149.9	142.5	7.45	20.137				
1,100.0	1,100.0	1,099.6	1,099.6	4.2	3.3	179.08	-149.9	2.4	149.9	142.4	7.54	19.881				
1,140.0	1,140.0	1,139.6	1,139.6	4.3	3.3	179.08	-149.9	2.4	149.9	142.3	7.61	19.700				
1,200.0	1,200.0	1,199.6	1,199.6	4.4	3.4	179.08	-149.9	2.4	149.9	142.2	7.72	19.428				
1,235.0	1,235.0	1,234.6	1,234.6	4.4	3.4	179.08	-149.9	2.4	149.9	142.1	7.78	19.272				
1,300.0	1,300.0	1,299.6	1,299.6	4.5	3.4	179.08	-149.9	2.4	149.9	142.0	7.90	18.985				
1,330.0	1,330.0	1,329.6	1,329.6	4.5	3.4	179.08	-149.9	2.4	149.9	142.0	7.95	18.856				
1,400.0	1,400.0	1,399.6	1,399.6	4.6	3.5	179.08	-149.9	2.4	149.9	141.8	8.08	18.555				
1,425.0	1,425.0	1,424.6	1,424.6	4.6	3.5	179.08	-149.9	2.4	149.9	141.8	8.13	18.449				
1,500.0	1,500.0	1,499.6	1,499.6	4.7	3.5	179.08	-149.9	2.4	149.9	141.7	8.27	18.135 CC, ES				
1,520.0	1,520.0	1,519.6	1,519.6	4.7	3.6	-134.97	-149.9	2.4	150.0	141.7	8.31	18.046				
1,600.0	1,600.0	1,599.6	1,599.6	4.9	3.6	-135.41	-149.9	2.4	151.2	142.7	8.49	17.808				
1,615.0	1,615.0	1,614.6	1,614.6	4.9	3.6	-135.55	-149.9	2.4	151.6	143.0	8.53	17.766				
1,700.0	1,699.8	1,699.4	1,699.4	5.1	3.7	-136.71	-149.9	2.4	154.9	146.2	8.78	17.651				
1,710.0	1,709.8	1,709.4	1,709.4	5.1	3.7	-136.89	-149.9	2.4	155.5	146.6	8.81	17.650 SF				
1,800.0	1,799.5	1,799.1	1,799.1	5.4	3.8	-138.75	-149.9	2.4	161.4	152.3	9.08	17.765				
1,805.0	1,804.4	1,804.0	1,804.0	5.4	3.8	-138.86	-149.9	2.4	161.8	152.7	9.10	17.777				
1,900.0	1,898.7	1,898.3	1,898.3	5.7	3.9	-141.32	-149.9	2.4	170.8	161.3	9.42	18.134				
1,950.1	1,948.2	1,947.8	1,947.8	5.8	3.9	-142.74	-149.9	2.4	176.6	167.1	9.53	18.527				
1,995.0	1,992.6	1,992.2	1,992.2	5.8	3.9	-144.07	-149.9	2.4	182.3	172.7	9.64	18.911				
2,000.0	1,997.5	1,997.1	1,997.1	5.8	3.9	-144.22	-149.9	2.4	182.9	173.3	9.65	18.954				
2,090.0	2,086.4	2,089.8	2,089.7	6.1	4.1	-147.06	-148.8	3.3	193.7	183.7	10.02	19.327				
2,100.0	2,096.3	2,100.1	2,100.0	6.1	4.1	-147.40	-148.5	3.5	194.9	184.8	10.06	19.362				
2,185.0	2,180.3	2,187.5	2,187.4	6.3	4.4	-150.46	-145.1	6.3	203.8	193.3	10.48	19.452				
2,200.0	2,195.1	2,202.9	2,202.8	6.4	4.4	-151.04	-144.3	6.9	205.3	194.7	10.55	19.458				
2,280.0	2,274.1	2,285.0	2,284.5	6.6	4.7	-154.28	-138.9	11.3	212.8	201.9	10.94	19.447				
2,300.0	2,293.8	2,305.4	2,304.8	6.7	4.7	-155.13	-137.3	12.7	214.6	203.6	11.04	19.437				
2,375.0	2,367.9	2,381.8	2,380.7	6.9	5.0	-158.50	-130.2	18.4	221.2	209.8	11.41	19.385				
2,400.0	2,392.6	2,407.2	2,405.8	7.0	5.1	-159.67	-127.5	20.6	223.4	211.8	11.53	19.368				
2,470.0	2,461.7	2,477.9	2,475.7	7.2	5.3	-163.09	-119.0	27.5	229.4	217.6	11.87	19.324				
2,500.0	2,491.4	2,508.0	2,505.4	7.3	5.4	-164.62	-115.0	30.7	232.1	220.1	12.02	19.314				
2,565.0	2,555.6	2,573.0	2,569.2	7.5	5.6	-168.02	-105.6	38.4	238.1	225.7	12.32	19.316				
2,600.0	2,590.1	2,607.7	2,603.2	7.7	5.8	-169.91	-100.1	42.9	241.4	229.0	12.49	19.338				
2,660.0	2,649.4	2,666.9	2,660.9	7.9	6.0	-173.21	-89.9	51.1	247.6	234.9	12.76	19.408				
2,700.0	2,688.9	2,706.0	2,698.8	8.0	6.2	-175.45	-82.7	57.0	252.1	239.1	12.94	19.486				

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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													Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
2,755.0	2,743.2	2,758.9	2,750.2	8.2	6.3	-178.41	-72.8	65.0	258.8	245.6	13.18	19.638				
2,800.0	2,787.7	2,802.1	2,792.2	8.4	6.5	179.28	-64.7	71.6	264.8	251.4	13.38	19.797				
2,850.0	2,837.1	2,850.2	2,838.8	8.6	6.6	176.82	-55.6	79.0	272.0	258.4	13.60	20.000				
2,900.0	2,886.5	2,898.3	2,885.5	8.7	6.8	174.50	-46.6	86.3	279.6	265.8	13.82	20.229				
2,945.0	2,930.9	2,941.6	2,927.4	8.9	7.0	172.50	-38.5	92.9	286.9	272.9	14.03	20.452				
3,000.0	2,985.2	2,994.5	2,978.8	9.1	7.2	170.20	-28.6	101.0	296.3	282.0	14.28	20.743				
3,040.0	3,024.7	3,032.9	3,016.1	9.3	7.3	168.61	-21.3	106.9	303.4	288.9	14.47	20.963				
3,100.0	3,084.0	3,090.6	3,072.1	9.5	7.5	166.35	-10.5	115.7	314.4	299.7	14.76	21.305				
3,135.0	3,118.6	3,124.3	3,104.7	9.6	7.7	165.11	-4.2	120.8	321.1	306.2	14.93	21.508				
3,200.0	3,182.8	3,186.8	3,165.4	9.9	7.9	162.93	7.6	130.3	333.9	318.6	15.25	21.891				
3,230.0	3,212.4	3,215.6	3,193.4	10.0	8.0	161.98	13.0	134.7	339.9	324.5	15.40	22.069				
3,300.0	3,281.5	3,282.9	3,258.7	10.3	8.3	159.88	25.6	145.0	354.3	338.6	15.76	22.484				
3,325.0	3,306.2	3,307.0	3,282.0	10.4	8.4	159.16	30.1	148.7	359.6	343.7	15.89	22.631				
3,400.0	3,380.3	3,379.1	3,352.0	10.7	8.7	157.15	43.7	159.7	375.7	359.4	16.29	23.072				
3,420.0	3,400.0	3,398.3	3,370.6	10.8	8.8	156.64	47.3	162.6	380.1	363.7	16.39	23.187				
3,500.0	3,479.1	3,475.3	3,445.3	11.1	9.1	154.72	61.7	174.3	397.8	381.0	16.83	23.646				
3,515.0	3,493.9	3,489.7	3,459.3	11.1	9.1	154.38	64.4	176.5	401.2	384.3	16.91	23.731				
3,600.0	3,577.8	3,571.4	3,538.6	11.5	9.5	152.54	79.8	189.0	420.6	403.2	17.38	24.203				
3,610.0	3,587.7	3,581.0	3,547.9	11.5	9.5	152.33	81.6	190.5	422.9	405.5	17.43	24.257				
3,700.0	3,676.6	3,667.6	3,631.9	11.9	9.9	150.58	97.8	203.7	443.9	425.9	17.94	24.739				
3,705.0	3,681.5	3,672.4	3,636.5	11.9	9.9	150.49	98.8	204.4	445.1	427.1	17.97	24.766				
3,800.0	3,775.4	3,763.7	3,725.2	12.3	10.3	148.81	115.9	218.4	467.6	449.1	18.52	25.254				
3,895.0	3,869.2	3,855.1	3,813.8	12.7	10.7	147.29	133.1	232.3	490.5	471.5	19.07	25.722				
3,900.0	3,874.1	3,859.9	3,818.5	12.7	10.8	147.22	134.0	233.0	491.7	472.6	19.10	25.746				
3,990.0	3,963.0	3,946.4	3,902.5	13.1	11.1	145.90	150.2	246.2	513.7	494.1	19.63	26.170				
4,000.0	3,972.9	3,956.1	3,911.8	13.1	11.2	145.77	152.0	247.7	516.2	496.5	19.69	26.216				
4,085.0	4,056.9	4,037.8	3,991.1	13.5	11.5	144.64	167.4	260.2	537.2	517.0	20.20	26.598				
4,100.0	4,071.7	4,052.2	4,005.1	13.5	11.6	144.45	170.1	262.4	540.9	520.6	20.29	26.664				
4,180.0	4,150.7	4,129.1	4,079.7	13.9	12.0	143.47	184.5	274.1	560.9	540.1	20.77	26.999				
4,209.2	4,179.5	4,157.2	4,107.0	14.0	12.1	143.14	189.8	278.4	568.2	547.3	20.95	27.118				
4,275.0	4,244.6	4,220.5	4,168.4	14.3	12.4	142.48	201.7	288.1	584.5	563.2	21.35	27.383				
4,300.0	4,269.3	4,244.6	4,191.8	14.4	12.5	142.23	206.2	291.7	590.6	569.1	21.50	27.474				
4,370.0	4,338.7	4,312.1	4,257.3	14.7	12.8	141.53	218.9	302.0	607.2	585.3	21.92	27.706				
4,400.0	4,368.4	4,341.1	4,285.4	14.8	12.9	141.23	224.3	306.4	614.1	592.0	22.10	27.794				
4,465.0	4,433.0	4,403.9	4,346.3	15.0	13.2	140.56	236.1	316.0	628.9	606.4	22.48	27.971				
4,500.0	4,467.8	4,437.7	4,379.1	15.2	13.4	140.20	242.5	321.2	636.6	613.9	22.69	28.055				
4,560.0	4,527.5	4,495.7	4,435.4	15.4	13.6	139.57	253.4	330.0	649.6	626.5	23.04	28.188				
4,600.0	4,567.3	4,534.5	4,473.0	15.6	13.8	139.15	260.6	335.9	658.0	634.7	23.28	28.265				
4,655.0	4,622.1	4,587.7	4,524.7	15.8	14.1	138.56	270.6	344.1	669.4	645.8	23.60	28.363				
4,700.0	4,667.0	4,631.4	4,567.0	15.9	14.3	138.07	278.8	350.7	678.5	654.6	23.86	28.432				
4,750.0	4,716.9	4,679.8	4,614.1	16.1	14.5	137.52	287.9	358.1	688.3	664.1	24.15	28.503				
4,800.0	4,766.8	4,728.3	4,661.1	16.3	14.7	136.96	297.0	365.5	697.9	673.5	24.43	28.562				
4,845.0	4,811.7	4,772.0	4,703.5	16.4	14.9	136.46	305.2	372.2	706.4	681.7	24.69	28.614				
4,900.0	4,866.7	4,825.3	4,755.2	16.6	15.2	135.82	315.3	380.3	716.4	691.4	24.99	28.665				
4,940.0	4,906.7	4,864.2	4,792.9	16.7	15.4	135.36	322.6	386.3	723.6	698.4	25.21	28.703				
5,000.0	4,966.6	4,922.4	4,849.4	16.9	15.6	134.65	333.5	395.1	734.1	708.6	25.53	28.749				
5,035.0	5,001.6	4,956.4	4,882.4	17.0	15.8	134.23	339.9	400.3	740.1	714.4	25.70	28.797				
5,109.4	5,076.0	5,028.5	4,952.4	17.1	16.1	87.37	353.4	411.3	752.5	726.4	26.05	28.880				
5,130.0	5,096.6	5,048.5	4,971.8	17.1	16.2	87.09	357.2	414.4	755.9	729.7	26.14	28.918				
5,200.0	5,166.6	5,116.5	5,037.7	17.1	16.5	86.16	369.9	424.7	767.5	741.1	26.42	29.046				
5,225.0	5,191.6	5,140.7	5,061.3	17.1	16.7	85.84	374.5	428.4	771.7	745.1	26.53	29.088				

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Rule Assigned:														
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
5,300.0	5,266.6	5,213.5	5,131.9	17.2	17.0	84.89		388.2	439.5	784.4	757.6	26.85	29.215	
5,320.0	5,286.6	5,232.9	5,150.7	17.2	17.1	84.64		391.8	442.5	787.8	760.9	26.94	29.248	
5,400.0	5,366.6	5,310.5	5,226.0	17.2	17.5	83.67		406.4	454.4	801.7	774.4	27.29	29.379	
5,415.0	5,381.6	5,325.1	5,240.1	17.2	17.5	83.49		409.1	456.6	804.4	777.0	27.36	29.403	
5,500.0	5,466.6	5,407.5	5,320.2	17.3	17.9	82.50		424.6	469.2	819.4	791.6	27.74	29.538	
5,510.0	5,476.6	5,417.2	5,329.6	17.3	18.0	82.38		426.4	470.6	821.2	793.4	27.79	29.553	
5,600.0	5,566.6	5,504.6	5,414.3	17.3	18.4	81.37		442.8	484.0	837.4	809.2	28.20	29.691	
5,605.0	5,571.6	5,509.4	5,419.0	17.3	18.4	81.32		443.7	484.7	838.3	810.1	28.23	29.699	
5,700.0	5,666.6	5,601.6	5,508.4	17.4	18.8	80.30		461.0	498.8	855.7	827.0	28.67	29.840	
5,795.0	5,761.6	5,693.8	5,597.9	17.4	19.3	79.32		478.4	512.8	873.3	844.2	29.13	29.978	
5,800.0	5,766.6	5,698.6	5,602.6	17.4	19.3	79.27		479.3	513.6	874.2	845.1	29.16	29.985	
5,890.0	5,856.6	5,786.0	5,687.3	17.5	19.7	78.37		495.7	526.9	891.2	861.6	29.60	30.110	
5,900.0	5,866.6	5,795.7	5,696.7	17.5	19.8	78.28		497.5	528.4	893.1	863.5	29.65	30.124	
5,985.0	5,951.6	5,878.1	5,776.8	17.5	20.2	77.47		513.0	541.0	909.3	879.2	30.07	30.239	
6,000.0	5,966.6	5,892.7	5,790.9	17.6	20.2	77.33		515.7	543.2	912.2	882.1	30.15	30.259	
6,080.0	6,046.6	5,970.3	5,866.2	17.6	20.6	76.59		530.3	555.0	927.7	897.1	30.55	30.365	
6,100.0	6,066.6	5,989.7	5,885.0	17.6	20.7	76.41		533.9	558.0	931.5	900.9	30.65	30.390	
6,175.0	6,141.6	6,062.5	5,955.6	17.6	21.0	75.76		547.6	569.1	946.2	915.2	31.04	30.486	
6,200.0	6,166.6	6,086.7	5,979.2	17.7	21.2	75.54		552.1	572.8	951.1	919.9	31.17	30.517	
6,270.0	6,236.6	6,156.7	6,047.1	17.7	21.5	74.93		565.3	583.5	964.9	933.4	31.53	30.605	
6,300.0	6,266.6	6,197.1	6,086.3	17.7	21.7	74.60		572.6	589.4	970.6	938.9	31.74	30.583	
6,365.0	6,331.6	6,285.4	6,172.7	17.8	22.1	73.96		587.0	601.1	981.9	949.7	32.21	30.489	
6,400.0	6,366.6	6,333.4	6,219.8	17.8	22.3	73.66		594.0	606.8	987.3	954.9	32.45	30.430	
6,460.0	6,426.6	6,416.4	6,301.7	17.8	22.7	73.21		604.6	615.4	995.5	962.7	32.85	30.309	
6,500.0	6,466.6	6,472.2	6,356.9	17.8	23.0	72.96		610.7	620.4	1,000.2	967.1	33.09	30.227	
6,555.0	6,521.6	6,549.3	6,433.5	17.9	23.3	72.67		617.8	626.1	1,005.6	972.2	33.41	30.102	
6,600.0	6,566.6	6,612.7	6,496.6	17.9	23.6	72.48		622.4	629.8	1,009.1	975.5	33.65	29.992	
6,650.0	6,616.6	6,683.5	6,567.2	17.9	23.8	72.32		626.2	633.0	1,012.1	978.2	33.88	29.868	
6,700.0	6,666.6	6,754.5	6,638.1	17.9	24.1	72.22		628.7	635.0	1,014.0	979.9	34.08	29.750	
6,745.0	6,711.6	6,818.4	6,702.0	18.0	24.3	72.18		629.8	635.9	1,014.8	980.6	34.22	29.660	
6,800.0	6,766.6	6,882.6	6,766.2	18.0	24.3	72.18		630.0	636.0	1,014.9	980.6	34.27	29.613	
6,840.0	6,806.6	6,922.6	6,806.2	18.0	24.3	72.18		630.0	636.0	1,014.9	980.6	34.32	29.575	
6,900.0	6,866.6	6,982.6	6,866.2	18.1	24.3	72.18		630.0	636.0	1,014.9	980.5	34.39	29.513	
6,935.0	6,901.6	7,017.6	6,901.2	18.1	24.4	72.18		630.0	636.0	1,014.9	980.5	34.43	29.477	
7,000.0	6,966.6	7,082.6	6,966.2	18.1	24.4	72.18		630.0	636.0	1,014.9	980.4	34.51	29.411	
7,030.0	6,996.6	7,112.6	6,996.2	18.1	24.4	72.18		630.0	636.0	1,014.9	980.4	34.54	29.384	
7,100.0	7,066.6	7,254.3	7,136.8	18.2	24.5	72.98		615.1	635.9	1,012.8	978.5	34.27	29.555	
7,125.0	7,091.6	7,306.4	7,186.9	18.2	24.5	73.74		601.0	635.8	1,010.7	976.6	34.11	29.628	
7,200.0	7,166.6	7,443.5	7,310.8	18.2	24.6	76.96		542.8	635.3	1,001.5	967.9	33.66	29.751	
7,220.0	7,186.6	7,474.8	7,336.8	18.2	24.6	77.94		525.6	635.2	998.6	965.0	33.56	29.752	
7,300.0	7,266.6	7,578.5	7,415.8	18.3	24.7	81.79		458.5	634.6	986.2	953.0	33.29	29.630	
7,315.0	7,281.6	7,594.6	7,426.9	18.3	24.7	82.47		446.9	634.5	984.0	950.7	33.25	29.591	
7,400.0	7,366.6	7,670.1	7,474.5	18.3	24.8	85.90		388.4	634.1	972.8	939.6	33.16	29.337	
7,410.0	7,376.6	7,677.5	7,478.7	18.3	24.8	86.26		382.3	634.0	971.7	938.6	33.15	29.308	
7,500.0	7,466.6	7,733.3	7,508.1	18.4	24.8	89.07		334.9	633.7	964.9	931.7	33.15	29.103	
7,505.0	7,471.6	7,735.9	7,509.4	18.4	24.8	89.21		332.6	633.6	964.7	931.5	33.16	29.096	
7,554.1	7,520.7	7,759.6	7,520.3	18.4	24.9	90.46		311.6	633.5	963.7	930.5	33.17	29.057	
7,600.0	7,566.6	7,778.6	7,528.5	18.4	24.9	91.48		294.5	633.3	964.6	931.4	33.17	29.077	
7,695.0	7,661.6	7,810.7	7,541.0	18.5	24.9	93.24		264.8	633.1	972.3	939.1	33.16	29.318	
7,700.0	7,666.6	7,812.2	7,541.5	18.5	24.9	93.32		263.5	633.1	972.9	939.8	33.16	29.339	
7,790.0	7,756.6	7,835.7	7,549.5	18.6	24.9	94.62		241.4	632.9	988.1	955.0	33.11	29.844	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Measured Depth (usft)	Vertical Reference Depth (usft)	Measured Depth (usft)	Vertical Offset Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,800.0	7,766.6	7,838.0	7,550.3	18.6	24.9	94.75	239.2	632.9	990.3	957.2	33.10	29.917	
7,885.0	7,851.6	7,850.0	7,554.0	18.6	24.9	95.43	227.8	632.8	1,012.0	978.9	33.05	30.624	
7,900.0	7,866.6	7,850.0	7,554.0	18.6	24.9	95.43	227.8	632.8	1,016.5	983.5	33.04	30.761	
7,980.0	7,946.6	7,871.7	7,560.0	18.7	24.9	96.66	206.9	632.6	1,043.5	1,010.6	32.88	31.737	
8,000.0	7,966.6	7,874.8	7,560.8	18.7	24.9	96.83	204.0	632.6	1,051.0	1,018.2	32.85	31.997	
8,075.0	8,041.6	7,885.1	7,563.4	18.7	24.9	97.42	194.0	632.5	1,082.1	1,049.4	32.73	33.061	
8,100.0	8,066.6	7,900.0	7,566.8	18.7	24.9	98.26	179.5	632.4	1,093.5	1,060.8	32.62	33.520	
8,170.0	8,136.6	7,900.0	7,566.8	18.8	24.9	98.26	179.5	632.4	1,127.2	1,094.6	32.56	34.618	
8,200.0	8,166.6	7,900.0	7,566.8	18.8	24.9	98.26	179.5	632.4	1,142.6	1,110.1	32.53	35.122	
8,265.0	8,231.6	7,900.0	7,566.8	18.8	24.9	98.26	179.5	632.4	1,178.0	1,145.5	32.47	36.276	
8,300.0	8,266.6	7,900.0	7,566.8	18.9	24.9	98.26	179.5	632.4	1,198.1	1,165.7	32.44	36.929	
8,360.0	8,326.6	7,900.0	7,566.8	18.9	24.9	98.26	179.5	632.4	1,234.1	1,201.7	32.40	38.093	
8,400.0	8,366.6	7,917.3	7,570.2	18.9	25.0	99.25	162.5	632.3	1,258.8	1,226.5	32.29	38.981	
8,432.4	8,399.0	7,919.7	7,570.6	18.9	25.0	99.39	160.1	632.3	1,279.6	1,247.4	32.13	39.823	
8,450.0	8,416.6	7,921.1	7,570.9	18.9	25.0	-79.53	158.8	632.3	1,291.0	1,258.9	32.11	40.203	
8,455.0	8,421.6	7,921.5	7,571.0	18.9	25.0	-79.08	158.4	632.3	1,294.2	1,262.1	32.11	40.310	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	0.3	0.3	3.0	3.0	-159.15	-151.0	-57.5	161.6					
95.0	95.0	95.3	95.3	3.0	3.0	-159.15	-151.0	-57.5	161.6	155.6	6.02	26.849		
100.0	100.0	100.3	100.3	3.0	3.0	-159.15	-151.0	-57.5	161.6	155.6	6.02	26.836		
190.0	190.0	190.3	190.3	3.1	3.0	-159.15	-151.0	-57.5	161.6	155.4	6.13	26.346		
200.0	200.0	200.3	200.3	3.1	3.0	-159.15	-151.0	-57.5	161.6	155.4	6.15	26.268		
285.0	285.0	285.3	285.3	3.3	3.0	-159.15	-151.0	-57.5	161.6	155.3	6.26	25.801		
300.0	300.0	300.3	300.3	3.3	3.0	-159.15	-151.0	-57.5	161.6	155.3	6.28	25.709		
380.0	380.0	380.3	380.3	3.4	3.0	-159.15	-151.0	-57.5	161.6	155.2	6.39	25.274		
400.0	400.0	400.3	400.3	3.4	3.0	-159.15	-151.0	-57.5	161.6	155.2	6.42	25.158		
475.0	475.0	475.3	475.3	3.5	3.0	-159.15	-151.0	-57.5	161.6	155.1	6.53	24.755		
500.0	500.0	500.3	500.3	3.5	3.1	-159.15	-151.0	-57.5	161.6	155.0	6.56	24.615		
570.0	570.0	570.3	570.3	3.6	3.1	-159.15	-151.0	-57.5	161.6	154.9	6.66	24.244		
600.0	600.0	600.3	600.3	3.6	3.1	-159.15	-151.0	-57.5	161.6	154.9	6.71	24.081		
665.0	665.0	665.3	665.3	3.7	3.1	-159.15	-151.0	-57.5	161.6	154.8	6.81	23.742		
700.0	700.0	700.3	700.3	3.8	3.1	-159.15	-151.0	-57.5	161.6	154.7	6.86	23.556		
760.0	760.0	760.3	760.3	3.8	3.1	-159.15	-151.0	-57.5	161.6	154.6	6.95	23.248		
800.0	800.0	800.3	800.3	3.9	3.2	-159.15	-151.0	-57.5	161.6	154.6	7.01	23.040		
855.0	855.0	855.3	855.3	4.0	3.2	-159.15	-151.0	-57.5	161.6	154.5	7.10	22.764		
900.0	900.0	900.3	900.3	4.0	3.2	-159.15	-151.0	-57.5	161.6	154.4	7.17	22.535		
950.0	950.0	950.3	950.3	4.1	3.2	-159.15	-151.0	-57.5	161.6	154.3	7.25	22.289		
1,000.0	1,000.0	1,000.3	1,000.3	4.1	3.2	-159.15	-151.0	-57.5	161.6	154.2	7.33	22.041		
1,045.0	1,045.0	1,045.3	1,045.3	4.2	3.3	-159.15	-151.0	-57.5	161.6	154.2	7.40	21.823		
1,100.0	1,100.0	1,100.3	1,100.3	4.2	3.3	-159.15	-151.0	-57.5	161.6	154.1	7.50	21.557		
1,140.0	1,140.0	1,140.3	1,140.3	4.3	3.3	-159.15	-151.0	-57.5	161.6	154.0	7.56	21.368		
1,200.0	1,200.0	1,200.3	1,200.3	4.4	3.4	-159.15	-151.0	-57.5	161.6	153.9	7.66	21.085		
1,235.0	1,235.0	1,235.3	1,235.3	4.4	3.4	-159.15	-151.0	-57.5	161.6	153.9	7.72	20.923		
1,300.0	1,300.0	1,300.3	1,300.3	4.5	3.4	-159.15	-151.0	-57.5	161.6	153.7	7.83	20.624		
1,330.0	1,330.0	1,330.3	1,330.3	4.5	3.4	-159.15	-151.0	-57.5	161.6	153.7	7.89	20.488		
1,400.0	1,400.0	1,400.3	1,400.3	4.6	3.5	-159.15	-151.0	-57.5	161.6	153.6	8.01	20.175		
1,425.0	1,425.0	1,425.3	1,425.3	4.6	3.5	-159.15	-151.0	-57.5	161.6	153.5	8.05	20.065		
1,500.0	1,500.0	1,500.3	1,500.3	4.7	3.5	-159.15	-151.0	-57.5	161.6	153.4	8.19	19.737		
1,520.0	1,520.0	1,520.3	1,520.3	4.7	3.6	-113.21	-151.0	-57.5	161.6	153.4	8.23	19.643		
1,600.0	1,600.0	1,600.3	1,600.3	4.9	3.6	-113.75	-151.0	-57.5	162.3	153.9	8.37	19.389		
1,615.0	1,615.0	1,615.3	1,615.3	4.9	3.6	-113.92	-151.0	-57.5	162.5	154.1	8.41	19.328		
1,700.0	1,699.8	1,700.1	1,700.1	5.1	3.7	-115.37	-151.0	-57.5	164.5	155.8	8.63	19.060		
1,710.0	1,709.8	1,710.1	1,710.1	5.1	3.7	-115.59	-151.0	-57.5	164.8	156.1	8.66	19.035		
1,800.0	1,799.5	1,799.8	1,799.8	5.4	3.8	-117.98	-151.0	-57.5	168.4	159.5	8.91	18.897		
1,805.0	1,804.4	1,804.7	1,804.7	5.4	3.8	-118.13	-151.0	-57.5	168.6	159.7	8.93	18.893		
1,900.0	1,898.7	1,899.0	1,899.0	5.7	3.9	-121.39	-151.0	-57.5	174.4	165.2	9.22	18.916		
1,950.1	1,948.2	1,948.5	1,948.5	5.8	3.9	-123.34	-151.0	-57.5	178.4	169.1	9.34	19.102		
1,995.0	1,992.6	1,992.9	1,992.9	5.8	3.9	-125.17	-151.0	-57.5	182.4	173.0	9.45	19.300		
2,000.0	1,997.5	1,997.8	1,997.8	5.8	3.9	-125.36	-151.0	-57.5	182.9	173.4	9.46	19.323		
2,090.0	2,086.4	2,091.3	2,091.3	6.1	4.1	-128.66	-149.8	-58.4	190.4	180.5	9.86	19.305		
2,100.0	2,096.3	2,101.7	2,101.7	6.1	4.2	-128.97	-149.5	-58.6	191.1	181.2	9.91	19.291		
2,185.0	2,180.3	2,190.9	2,190.7	6.3	4.4	-131.27	-145.9	-61.2	196.4	186.1	10.35	18.977		
2,200.0	2,195.1	2,206.7	2,206.5	6.4	4.4	-131.62	-145.0	-61.9	197.2	186.8	10.43	18.905		
2,280.0	2,274.1	2,291.1	2,290.6	6.6	4.7	-133.14	-139.1	-66.2	200.2	189.3	10.86	18.431		
2,300.0	2,293.8	2,312.2	2,311.6	6.7	4.8	-133.45	-137.3	-67.5	200.6	189.7	10.97	18.291		
2,375.0	2,367.9	2,391.7	2,390.4	6.9	5.0	-134.37	-129.4	-73.3	201.4	190.0	11.38	17.691		
2,400.0	2,392.6	2,418.2	2,416.7	7.0	5.1	-134.59	-126.4	-75.5	201.3	189.7	11.52	17.467		
2,470.0	2,461.7	2,492.4	2,489.9	7.2	5.4	-135.00	-116.9	-82.4	200.0	188.0	11.92	16.780		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance	Minimum Separation (usft)	Separation Factor	Warning	
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,500.0	2,491.4	2,524.2	2,521.2	7.3	5.5	-135.08		-112.4	-85.7	198.9	186.9	12.09	16.462	
2,565.0	2,555.6	2,593.0	2,588.7	7.5	5.7	-135.05		-101.6	-93.6	195.8	183.4	12.45	15.728	
2,600.0	2,590.1	2,629.9	2,624.9	7.7	5.9	-134.92		-95.3	-98.2	193.6	181.0	12.64	15.311	
2,660.0	2,649.4	2,693.2	2,686.4	7.9	6.1	-134.49		-83.6	-106.7	189.0	176.0	12.97	14.566	
2,700.0	2,688.9	2,734.7	2,726.7	8.0	6.2	-134.06		-75.4	-112.7	185.3	172.2	13.14	14.101	
2,755.0	2,743.2	2,789.4	2,779.6	8.2	6.4	-133.42		-64.3	-120.8	180.1	166.7	13.40	13.444	
2,800.0	2,787.7	2,834.2	2,823.0	8.4	6.6	-132.87		-55.2	-127.4	175.8	162.2	13.62	12.914	
2,850.0	2,837.1	2,883.9	2,871.1	8.6	6.7	-132.23		-45.2	-134.8	171.2	157.3	13.86	12.344	
2,900.0	2,886.5	2,933.6	2,919.3	8.7	6.9	-131.55		-35.1	-142.1	166.5	152.4	14.11	11.798	
2,945.0	2,930.9	2,978.4	2,962.6	8.9	7.1	-130.90		-26.1	-148.7	162.3	148.0	14.33	11.326	
3,000.0	2,985.2	3,033.1	3,015.6	9.1	7.3	-130.07		-15.0	-156.8	157.2	142.6	14.59	10.775	
3,040.0	3,024.7	3,072.9	3,054.1	9.3	7.4	-129.42		-7.0	-162.7	153.5	138.8	14.78	10.390	
3,100.0	3,084.0	3,132.6	3,111.9	9.5	7.7	-128.40		5.1	-171.5	148.1	133.0	15.05	9.840	
3,135.0	3,118.6	3,167.4	3,145.6	9.6	7.8	-127.77		12.2	-176.7	144.9	129.7	15.20	9.533	
3,200.0	3,182.8	3,232.1	3,208.2	9.9	8.1	-126.52		25.2	-186.2	139.1	123.6	15.47	8.990	
3,230.0	3,212.4	3,261.9	3,237.1	10.0	8.2	-125.90		31.3	-190.6	136.4	120.8	15.59	8.750	
3,300.0	3,281.5	3,331.6	3,304.5	10.3	8.5	-124.37		45.3	-200.9	130.2	114.4	15.84	8.220	
3,325.0	3,306.2	3,356.4	3,328.6	10.4	8.6	-123.79		50.4	-204.6	128.0	112.1	15.93	8.039	
3,400.0	3,380.3	3,431.0	3,400.8	10.7	8.9	-121.93		65.5	-215.6	121.6	105.4	16.15	7.526	
3,420.0	3,400.0	3,450.9	3,420.1	10.8	9.0	-121.40		69.5	-218.5	119.9	103.7	16.21	7.396	
3,500.0	3,479.1	3,530.5	3,497.2	11.1	9.3	-119.11		85.6	-230.3	113.2	96.8	16.39	6.906	
3,515.0	3,493.9	3,545.5	3,511.6	11.1	9.4	-118.65		88.6	-232.5	112.0	95.5	16.42	6.819	
3,600.0	3,577.8	3,630.0	3,593.5	11.5	9.8	-115.86		105.7	-245.0	105.1	88.6	16.54	6.357	
3,610.0	3,587.7	3,640.0	3,603.1	11.5	9.8	-115.51		107.7	-246.5	104.4	87.8	16.55	6.306	
3,700.0	3,676.6	3,729.5	3,689.8	11.9	10.2	-112.08		125.8	-259.7	97.5	80.9	16.58	5.879	
3,705.0	3,681.5	3,734.5	3,694.6	11.9	10.2	-111.88		126.8	-260.4	97.1	80.5	16.58	5.857	
3,800.0	3,775.4	3,829.0	3,786.1	12.3	10.6	-107.69		145.9	-274.4	90.3	73.8	16.51	5.468	
3,895.0	3,869.2	3,923.5	3,877.6	12.7	11.1	-102.85		165.0	-288.3	84.0	67.7	16.36	5.136	
3,900.0	3,874.1	3,928.5	3,882.4	12.7	11.1	-102.57		166.0	-289.1	83.7	67.4	16.35	5.120	
3,990.0	3,963.0	4,018.0	3,969.1	13.1	11.5	-97.28		184.2	-302.3	78.5	62.3	16.18	4.851	
4,000.0	3,972.9	4,027.9	3,978.7	13.1	11.5	-96.65		186.2	-303.8	78.0	61.8	16.16	4.823	
4,085.0	4,056.9	4,112.5	4,060.6	13.5	11.9	-90.95		203.3	-316.2	73.8	57.7	16.08	4.590	
4,100.0	4,071.7	4,127.4	4,075.0	13.5	12.0	-89.88		206.3	-318.5	73.1	57.1	16.08	4.549	
4,180.0	4,150.7	4,207.0	4,152.1	13.9	12.3	-83.86		222.4	-330.2	70.1	53.9	16.23	4.321	
4,209.2	4,179.5	4,236.0	4,180.2	14.0	12.5	-81.54		228.2	-334.5	69.2	52.9	16.36	4.232	
4,275.0	4,244.6	4,301.5	4,243.5	14.3	12.8	-75.81		241.5	-344.2	67.7	50.9	16.83	4.023	
4,300.0	4,269.3	4,326.3	4,267.6	14.4	12.9	-73.42		246.5	-347.8	67.4	50.3	17.11	3.940	
4,338.2	4,307.2	4,364.3	4,304.3	14.5	13.1	-69.56		254.2	-353.4	67.2	49.5	17.65	3.808 CC	
4,370.0	4,338.7	4,395.8	4,334.9	14.7	13.2	-66.21		260.6	-358.1	67.3	49.1	18.21	3.698	
4,400.0	4,368.4	4,425.5	4,363.6	14.8	13.3	-62.96		266.6	-362.5	67.8	48.9	18.83	3.599 ES	
4,465.0	4,433.0	4,489.9	4,426.0	15.0	13.6	-55.76		279.6	-372.0	69.7	49.3	20.43	3.414	
4,500.0	4,467.8	4,524.5	4,459.5	15.2	13.8	-51.89		286.6	-377.1	71.4	50.0	21.39	3.340	
4,560.0	4,527.5	4,583.8	4,516.9	15.4	14.1	-45.46		298.6	-385.9	75.4	52.3	23.09	3.266	
4,600.0	4,567.3	4,623.3	4,555.1	15.6	14.3	-41.41		306.6	-391.7	78.8	54.6	24.21	3.255 SF	
4,655.0	4,622.1	4,677.5	4,607.6	15.8	14.5	-36.23		317.5	-399.7	84.4	58.8	25.67	3.290	
4,700.0	4,667.0	4,721.8	4,650.5	15.9	14.7	-32.36		326.5	-406.2	89.9	63.1	26.77	3.356	
4,750.0	4,716.9	4,770.9	4,698.0	16.1	15.0	-28.48		336.4	-413.5	96.6	68.8	27.88	3.467	
4,800.0	4,766.8	4,820.0	4,745.5	16.3	15.2	-25.01		346.3	-420.7	104.2	75.3	28.88	3.609	
4,845.0	4,811.7	4,864.0	4,788.2	16.4	15.4	-22.23		355.2	-427.2	111.7	82.0	29.68	3.762	
4,900.0	4,866.7	4,917.8	4,840.2	16.6	15.7	-19.23		366.1	-435.2	121.5	91.0	30.57	3.976	
4,940.0	4,906.7	4,956.8	4,878.0	16.7	15.8	-17.30		374.0	-440.9	129.2	98.1	31.14	4.149	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
Rule Assigned:													Warning		
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor		
				(usft)	(usft)			+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,966.6	5,015.2	4,934.6	16.9	16.1	-14.74		385.8	-449.6	141.4	109.5	31.93	4.429		
5,035.0	5,001.6	5,049.3	4,967.5	17.0	16.3	-13.41		392.7	-454.6	148.9	116.6	32.31	4.610		
5,109.4	5,076.0	5,121.4	5,037.3	17.1	16.6	-56.92		407.3	-465.3	165.8	132.8	33.06	5.016		
5,130.0	5,096.6	5,141.4	5,056.7	17.1	16.7	-56.31		411.3	-468.2	170.7	137.5	33.23	5.137		
5,200.0	5,166.6	5,209.1	5,122.3	17.1	17.0	-54.46		425.0	-478.2	187.3	153.5	33.77	5.547		
5,225.0	5,191.6	5,233.3	5,145.7	17.1	17.2	-53.88		429.9	-481.8	193.3	159.3	33.95	5.693		
5,300.0	5,266.6	5,305.9	5,216.0	17.2	17.5	-52.33		444.6	-492.5	211.3	176.8	34.47	6.129		
5,320.0	5,286.6	5,325.3	5,234.7	17.2	17.6	-51.96		448.5	-495.4	216.1	181.5	34.60	6.245		
5,400.0	5,366.6	5,402.8	5,309.7	17.2	18.0	-50.64		464.2	-506.8	235.5	200.4	35.12	6.705		
5,415.0	5,381.6	5,417.3	5,323.8	17.2	18.0	-50.41		467.1	-509.0	239.1	203.9	35.22	6.790		
5,500.0	5,466.6	5,499.6	5,403.5	17.3	18.4	-49.26		483.8	-521.1	259.8	224.1	35.74	7.271		
5,510.0	5,476.6	5,509.2	5,412.8	17.3	18.5	-49.13		485.7	-522.5	262.3	226.5	35.80	7.327		
5,600.0	5,566.6	5,596.4	5,497.2	17.3	18.9	-48.11		503.3	-535.4	284.3	248.0	36.34	7.825		
5,605.0	5,571.6	5,601.2	5,501.9	17.3	18.9	-48.06		504.3	-536.1	285.6	249.2	36.36	7.852		
5,700.0	5,666.6	5,693.2	5,590.9	17.4	19.4	-47.15		522.9	-549.7	308.9	272.0	36.91	8.368		
5,795.0	5,761.6	5,796.8	5,691.6	17.4	19.9	-46.33		542.4	-564.0	330.7	293.2	37.57	8.803		
5,800.0	5,766.6	5,802.3	5,697.0	17.4	19.9	-46.30		543.4	-564.7	331.8	294.2	37.60	8.823		
5,890.0	5,856.6	5,902.2	5,795.0	17.5	20.4	-45.72		559.3	-576.3	349.3	311.1	38.17	9.150		
5,900.0	5,866.6	5,913.4	5,806.0	17.5	20.4	-45.66		560.9	-577.4	351.0	312.8	38.23	9.182		
5,985.0	5,951.6	6,009.1	5,900.5	17.5	20.9	-45.26		573.2	-586.4	364.4	325.7	38.70	9.415		
6,000.0	5,966.6	6,026.1	5,917.3	17.6	20.9	-45.20		575.1	-587.9	366.5	327.7	38.78	9.450		
6,080.0	6,046.6	6,117.2	6,007.7	17.6	21.3	-44.94		584.1	-594.4	376.1	336.9	39.16	9.603		
6,100.0	6,066.6	6,140.1	6,030.5	17.6	21.4	-44.88		585.9	-595.7	378.1	338.8	39.24	9.633		
6,175.0	6,141.6	6,226.1	6,116.2	17.6	21.8	-44.72		591.7	-599.9	384.2	344.7	39.53	9.718		
6,200.0	6,166.6	6,254.9	6,144.9	17.7	21.9	-44.68		593.1	-601.0	385.7	346.1	39.62	9.737		
6,270.0	6,236.6	6,335.6	6,225.6	17.7	22.2	-44.60		596.0	-603.1	388.8	349.0	39.80	9.767		
6,300.0	6,266.6	6,370.3	6,260.2	17.7	22.3	-44.59		596.6	-603.5	389.5	349.6	39.86	9.770		
6,365.0	6,331.6	6,442.0	6,331.9	17.8	22.4	-44.58		597.0	-603.8	389.8	349.9	39.92	9.766		
6,400.0	6,366.6	6,477.0	6,366.9	17.8	22.4	-44.58		597.0	-603.8	389.8	349.9	39.95	9.758		
6,460.0	6,426.6	6,537.0	6,426.9	17.8	22.4	-44.58		597.0	-603.8	389.8	349.8	40.00	9.745		
6,500.0	6,466.6	6,577.0	6,466.9	17.8	22.4	-44.58		597.0	-603.8	389.8	349.8	40.04	9.735		
6,555.0	6,521.6	6,632.0	6,521.9	17.9	22.5	-44.58		597.0	-603.8	389.8	349.7	40.10	9.722		
6,600.0	6,566.6	6,677.0	6,566.9	17.9	22.5	-44.58		597.0	-603.8	389.8	349.7	40.14	9.711		
6,650.0	6,616.6	6,727.0	6,616.9	17.9	22.5	-44.58		597.0	-603.8	389.8	349.6	40.19	9.699		
6,700.0	6,666.6	6,777.0	6,666.9	17.9	22.5	-44.58		597.0	-603.8	389.8	349.6	40.24	9.688		
6,745.0	6,711.6	6,822.0	6,711.9	18.0	22.5	-44.58		597.0	-603.8	389.8	349.5	40.28	9.677		
6,800.0	6,766.6	6,877.0	6,766.9	18.0	22.6	-44.58		597.0	-603.8	389.8	349.5	40.34	9.664		
6,840.0	6,806.6	6,917.0	6,806.9	18.0	22.6	-44.58		597.0	-603.8	389.8	349.4	40.38	9.654		
6,900.0	6,866.6	6,977.0	6,866.9	18.1	22.6	-44.58		597.0	-603.8	389.8	349.4	40.44	9.640		
6,935.0	6,901.6	7,012.0	6,901.9	18.1	22.6	-44.58		597.0	-603.8	389.8	349.3	40.47	9.632		
7,000.0	6,966.6	7,077.0	6,966.9	18.1	22.7	-44.58		597.0	-603.8	389.8	349.3	40.54	9.617		
7,030.0	6,996.6	7,119.8	7,009.8	18.1	22.7	-44.64		596.4	-603.8	389.6	349.2	40.36	9.654		
7,100.0	7,066.6	7,250.6	7,138.5	18.2	22.8	-46.90		575.5	-604.0	381.7	342.8	38.96	9.799		
7,125.0	7,091.6	7,294.1	7,180.0	18.2	22.8	-48.45		562.1	-604.1	376.4	338.1	38.35	9.816		
7,200.0	7,166.6	7,410.3	7,284.3	18.2	22.9	-55.00		511.4	-604.5	354.8	318.3	36.53	9.714		
7,220.0	7,186.6	7,437.4	7,307.0	18.2	22.9	-57.13		496.6	-604.6	348.1	312.0	36.08	9.647		
7,300.0	7,266.6	7,529.7	7,378.6	18.3	23.0	-66.55		438.5	-605.1	319.7	285.2	34.57	9.249		
7,315.0	7,281.6	7,544.5	7,389.1	18.3	23.0	-68.39		428.2	-605.1	314.6	280.2	34.33	9.163		
7,400.0	7,366.6	7,615.4	7,435.9	18.3	23.1	-78.57		375.0	-605.6	289.3	256.1	33.15	8.727		
7,410.0	7,376.6	7,622.5	7,440.3	18.3	23.1	-79.71		369.3	-605.6	287.0	254.0	33.02	8.692		
7,500.0	7,466.6	7,677.3	7,471.1	18.4	23.2	-89.01		324.1	-606.0	275.8	244.1	31.78	8.678		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #502H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7093-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
7,505.0	7,471.6	7,679.9	7,472.5	18.4	23.2	-89.47	321.9	-606.0	275.8	244.1	31.71	8.697		
7,505.8	7,472.4	7,680.3	7,472.7	18.4	23.2	-89.54	321.5	-606.0	275.8	244.1	31.70	8.700		
7,600.0	7,566.6	7,723.1	7,493.6	18.4	23.2	-97.26	284.1	-606.3	287.8	257.5	30.29	9.503		
7,695.0	7,661.6	7,756.5	7,507.8	18.5	23.2	-103.30	254.0	-606.5	323.1	294.0	29.07	11.112		
7,700.0	7,666.6	7,758.0	7,508.4	18.5	23.2	-103.58	252.6	-606.5	325.5	296.5	29.02	11.215		
7,790.0	7,756.6	7,782.8	7,517.9	18.6	23.2	-107.97	229.6	-606.7	376.4	348.1	28.31	13.294		
7,800.0	7,766.6	7,785.3	7,518.7	18.6	23.2	-108.40	227.3	-606.7	382.8	354.5	28.26	13.547		
7,885.0	7,851.6	7,800.0	7,523.8	18.6	23.2	-110.93	213.5	-606.8	442.1	414.0	28.05	15.757		
7,900.0	7,866.6	7,800.0	7,523.8	18.6	23.2	-110.93	213.5	-606.8	453.3	425.2	28.09	16.137		
7,980.0	7,946.6	7,821.6	7,530.5	18.7	23.3	-114.53	193.0	-607.0	515.7	487.9	27.85	18.516		
8,000.0	7,966.6	7,824.9	7,531.5	18.7	23.3	-115.06	189.8	-607.0	532.0	504.1	27.85	19.100		
8,075.0	8,041.6	7,836.2	7,534.6	18.7	23.3	-116.87	179.0	-607.1	594.7	566.8	27.90	21.315		
8,100.0	8,066.6	7,850.0	7,538.2	18.7	23.3	-119.01	165.6	-607.2	616.3	588.5	27.80	22.170		
8,170.0	8,136.6	7,850.0	7,538.2	18.8	23.3	-119.01	165.6	-607.2	677.3	649.3	28.02	24.173		
8,200.0	8,166.6	7,850.0	7,538.2	18.8	23.3	-119.01	165.6	-607.2	704.0	675.9	28.11	25.044		
8,265.0	8,231.6	7,850.0	7,538.2	18.8	23.3	-119.01	165.6	-607.2	762.6	734.3	28.30	26.950		
8,300.0	8,266.6	7,850.0	7,538.2	18.9	23.3	-119.01	165.6	-607.2	794.6	766.2	28.40	27.983		
8,360.0	8,326.6	7,868.3	7,542.5	18.9	23.3	-121.74	147.9	-607.4	849.5	821.0	28.44	29.872		
8,400.0	8,366.6	7,871.8	7,543.2	18.9	23.3	-122.24	144.4	-607.4	886.5	858.0	28.53	31.070		
8,432.4	8,399.0	7,874.5	7,543.8	18.9	23.3	-122.63	141.8	-607.4	916.7	888.1	28.66	31.985		
8,450.0	8,416.6	7,876.0	7,544.1	18.9	23.3	53.01	140.3	-607.4	933.1	904.4	28.70	32.508		
8,455.0	8,421.6	7,876.5	7,544.2	18.9	23.3	51.96	139.9	-607.4	937.7	909.0	28.72	32.655		
8,500.0	8,466.5	7,881.2	7,545.1	19.0	23.3	43.60	135.2	-607.5	979.2	950.3	28.85	33.940		
8,550.0	8,515.8	7,900.0	7,548.5	19.0	23.3	35.54	116.7	-607.6	1,024.5	995.5	28.97	35.367		
8,600.0	8,564.2	7,900.0	7,548.5	19.0	23.3	30.62	116.7	-607.6	1,068.2	1,039.0	29.20	36.585		
8,645.0	8,606.8	7,900.0	7,548.5	19.1	23.3	27.12	116.7	-607.6	1,106.5	1,077.0	29.43	37.602		
8,650.0	8,611.4	7,900.0	7,548.5	19.1	23.3	26.77	116.7	-607.6	1,110.6	1,081.2	29.45	37.710		
8,700.0	8,657.0	7,900.0	7,548.5	19.1	23.3	23.73	116.7	-607.6	1,151.6	1,121.9	29.73	38.740		
8,740.0	8,692.1	7,920.8	7,551.4	19.2	23.3	21.28	96.1	-607.8	1,182.7	1,152.8	29.88	39.578		
8,750.0	8,700.6	7,922.9	7,551.7	19.2	23.3	20.81	94.1	-607.8	1,190.3	1,160.4	29.94	39.762		
8,800.0	8,741.9	7,950.0	7,554.4	19.2	23.3	18.51	67.1	-608.0	1,227.5	1,197.3	30.15	40.708		
8,835.0	8,769.3	7,950.0	7,554.4	19.2	23.3	17.47	67.1	-608.0	1,251.8	1,221.4	30.38	41.198		
8,850.0	8,780.6	7,950.0	7,554.4	19.3	23.3	17.07	67.1	-608.0	1,261.9	1,231.4	30.49	41.392		
8,900.0	8,816.4	7,950.0	7,554.4	19.3	23.3	15.86	67.1	-608.0	1,294.2	1,263.4	30.84	41.972		
8,930.0	8,836.4	7,950.0	7,554.4	19.3	23.3	15.24	67.1	-608.0	1,312.6	1,281.6	31.05	42.270		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	-169.60		-150.4	-27.6	152.9				
95.0	95.0	94.9	94.9	3.0	3.0	-169.60		-150.4	-27.6	152.9	146.9	6.02	25.409	
100.0	100.0	99.9	99.9	3.0	3.0	-169.60		-150.4	-27.6	152.9	146.9	6.02	25.396	
190.0	190.0	189.9	189.9	3.1	3.0	-169.60		-150.4	-27.6	152.9	146.8	6.13	24.931	
200.0	200.0	199.9	199.9	3.1	3.0	-169.60		-150.4	-27.6	152.9	146.8	6.15	24.857	
285.0	285.0	284.9	284.9	3.3	3.0	-169.60		-150.4	-27.6	152.9	146.6	6.26	24.411	
300.0	300.0	299.9	299.9	3.3	3.0	-169.60		-150.4	-27.6	152.9	146.6	6.29	24.322	
380.0	380.0	379.9	379.9	3.4	3.0	-169.60		-150.4	-27.6	152.9	146.5	6.40	23.905	
400.0	400.0	399.9	399.9	3.4	3.0	-169.60		-150.4	-27.6	152.9	146.5	6.43	23.793	
475.0	475.0	474.9	474.9	3.5	3.0	-169.60		-150.4	-27.6	152.9	146.4	6.53	23.406	
500.0	500.0	499.9	499.9	3.5	3.1	-169.60		-150.4	-27.6	152.9	146.3	6.57	23.271	
570.0	570.0	569.9	569.9	3.6	3.1	-169.60		-150.4	-27.6	152.9	146.2	6.67	22.913	
600.0	600.0	599.9	599.9	3.6	3.1	-169.60		-150.4	-27.6	152.9	146.2	6.72	22.755	
665.0	665.0	664.9	664.9	3.7	3.1	-169.60		-150.4	-27.6	152.9	146.1	6.82	22.427	
700.0	700.0	699.9	699.9	3.8	3.1	-169.60		-150.4	-27.6	152.9	146.0	6.87	22.248	
760.0	760.0	759.9	759.9	3.8	3.1	-169.60		-150.4	-27.6	152.9	145.9	6.97	21.950	
800.0	800.0	799.9	799.9	3.9	3.2	-169.60		-150.4	-27.6	152.9	145.9	7.03	21.749	
855.0	855.0	854.9	854.9	4.0	3.2	-169.60		-150.4	-27.6	152.9	145.8	7.12	21.480	
900.0	900.0	899.9	899.9	4.0	3.2	-169.60		-150.4	-27.6	152.9	145.7	7.19	21.259	
950.0	950.0	949.9	949.9	4.1	3.2	-169.60		-150.4	-27.6	152.9	145.6	7.27	21.019	
1,000.0	1,000.0	999.9	999.9	4.1	3.2	-169.60		-150.4	-27.6	152.9	145.6	7.36	20.779	
1,045.0	1,045.0	1,044.9	1,044.9	4.2	3.3	-169.60		-150.4	-27.6	152.9	145.5	7.43	20.567	
1,100.0	1,100.0	1,099.9	1,099.9	4.2	3.3	-169.60		-150.4	-27.6	152.9	145.4	7.53	20.309	
1,140.0	1,140.0	1,139.9	1,139.9	4.3	3.3	-169.60		-150.4	-27.6	152.9	145.3	7.60	20.125	
1,200.0	1,200.0	1,199.9	1,199.9	4.4	3.4	-169.60		-150.4	-27.6	152.9	145.2	7.70	19.850	
1,235.0	1,235.0	1,234.9	1,234.9	4.4	3.4	-169.60		-150.4	-27.6	152.9	145.1	7.76	19.693	
1,300.0	1,300.0	1,299.9	1,299.9	4.5	3.4	-169.60		-150.4	-27.6	152.9	145.0	7.88	19.403	
1,330.0	1,330.0	1,329.9	1,329.9	4.5	3.4	-169.60		-150.4	-27.6	152.9	145.0	7.93	19.272	
1,400.0	1,400.0	1,399.9	1,399.9	4.6	3.5	-169.60		-150.4	-27.6	152.9	144.8	8.06	18.967	
1,425.0	1,425.0	1,424.9	1,424.9	4.6	3.5	-169.60		-150.4	-27.6	152.9	144.8	8.11	18.860	
1,500.0	1,500.0	1,499.9	1,499.9	4.7	3.5	-169.60		-150.4	-27.6	152.9	144.7	8.25	18.543 CC	
1,520.0	1,520.0	1,519.9	1,519.9	4.7	3.6	-123.66		-150.4	-27.6	153.0	144.7	8.29	18.453 ES	
1,600.0	1,600.0	1,599.9	1,599.9	4.9	3.6	-124.16		-150.4	-27.6	153.9	145.4	8.45	18.214	
1,615.0	1,615.0	1,614.9	1,614.9	4.9	3.6	-124.33		-150.4	-27.6	154.2	145.7	8.49	18.165	
1,700.0	1,699.8	1,699.7	1,699.7	5.1	3.7	-125.70		-150.4	-27.6	156.9	148.2	8.72	17.987	
1,710.0	1,709.8	1,709.7	1,709.7	5.1	3.7	-125.90		-150.4	-27.6	157.3	148.6	8.75	17.975	
1,800.0	1,799.5	1,799.4	1,799.4	5.4	3.8	-128.11		-150.4	-27.6	162.1	153.1	9.02	17.979	
1,805.0	1,804.4	1,804.3	1,804.3	5.4	3.8	-128.25		-150.4	-27.6	162.5	153.4	9.03	17.984	
1,900.0	1,898.7	1,898.6	1,898.6	5.7	3.9	-131.21		-150.4	-27.6	169.9	160.6	9.34	18.194	
1,950.1	1,948.2	1,948.1	1,948.1	5.8	3.9	-132.95		-150.4	-27.6	174.9	165.5	9.46	18.493	
1,995.0	1,992.6	1,992.5	1,992.5	5.8	3.9	-134.58		-150.4	-27.6	179.8	170.3	9.57	18.793	
2,000.0	1,997.5	1,997.4	1,997.4	5.8	3.9	-134.76		-150.4	-27.6	180.4	170.8	9.58	18.827	
2,090.0	2,086.4	2,092.4	2,092.4	6.1	4.2	-137.98		-148.9	-27.6	189.2	179.2	10.03	18.868	
2,100.0	2,096.3	2,103.0	2,103.0	6.1	4.2	-138.32		-148.5	-27.6	190.1	180.0	10.08	18.855	
2,185.0	2,180.3	2,193.4	2,193.3	6.3	4.5	-141.19		-143.9	-27.6	195.9	185.3	10.58	18.523	
2,200.0	2,195.1	2,209.4	2,209.2	6.4	4.5	-141.69		-142.8	-27.6	196.7	186.0	10.66	18.443	
2,280.0	2,274.1	2,294.7	2,294.2	6.6	4.8	-144.36		-135.3	-27.5	199.8	188.6	11.15	17.917	
2,300.0	2,293.8	2,316.0	2,315.4	6.7	4.9	-145.04		-133.0	-27.5	200.3	189.0	11.27	17.761	
2,375.0	2,367.9	2,396.0	2,394.7	6.9	5.1	-147.63		-123.1	-27.5	200.9	189.2	11.75	17.101	
2,400.0	2,392.6	2,422.6	2,421.1	7.0	5.2	-148.53		-119.3	-27.4	200.8	188.9	11.91	16.858	
2,470.0	2,461.7	2,497.1	2,494.6	7.2	5.5	-151.14		-107.4	-27.4	199.5	187.1	12.37	16.120	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Rule Assigned:														
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,500.0	2,491.4	2,529.0	2,526.0	7.3	5.6	-152.32		-101.7	-27.4	198.5	185.9	12.55	15.816	
2,565.0	2,555.6	2,596.3	2,592.1	7.5	5.8	-154.97		-88.6	-27.3	195.6	182.7	12.91	15.149	
2,600.0	2,590.1	2,631.0	2,626.0	7.7	5.9	-156.38		-81.7	-27.3	194.1	181.0	13.13	14.782	
2,660.0	2,649.4	2,690.3	2,684.2	7.9	6.0	-158.84		-69.9	-27.2	191.7	178.2	13.51	14.193	
2,700.0	2,688.9	2,729.9	2,722.9	8.0	6.2	-160.52		-62.0	-27.2	190.3	176.6	13.76	13.831	
2,755.0	2,743.2	2,784.3	2,776.3	8.2	6.4	-162.86		-51.1	-27.1	188.7	174.6	14.11	13.376	
2,800.0	2,787.7	2,828.9	2,819.9	8.4	6.5	-164.80		-42.3	-27.1	187.7	173.3	14.39	13.039	
2,850.0	2,837.1	2,878.3	2,868.4	8.6	6.7	-166.98		-32.4	-27.0	186.7	172.0	14.70	12.700	
2,900.0	2,886.5	2,927.8	2,916.9	8.7	6.9	-169.17		-22.5	-27.0	186.1	171.1	15.00	12.400	
2,945.0	2,930.9	2,972.3	2,960.5	8.9	7.0	-171.16		-13.6	-26.9	185.7	170.4	15.27	12.160	
2,991.9	2,977.2	3,018.7	3,006.0	9.1	7.2	-173.24		-4.4	-26.9	185.6	170.0	15.54	11.942	
3,000.0	2,985.2	3,026.7	3,013.8	9.1	7.2	-173.60		-2.8	-26.9	185.6	170.0	15.59	11.907	
3,040.0	3,024.7	3,066.3	3,052.6	9.3	7.4	-175.37		5.1	-26.8	185.7	169.9	15.81	11.748	
3,100.0	3,084.0	3,125.7	3,110.8	9.5	7.6	-178.02		16.9	-26.8	186.2	170.1	16.12	11.550	
3,135.0	3,118.6	3,160.3	3,144.7	9.6	7.7	-179.55		23.8	-26.8	186.7	170.4	16.30	11.455	
3,200.0	3,182.8	3,224.6	3,207.7	9.9	8.0	-177.62		36.7	-26.7	188.0	171.4	16.61	11.318	
3,230.0	3,212.4	3,254.3	3,236.8	10.0	8.1	-176.33		42.6	-26.7	188.8	172.0	16.75	11.270	
3,300.0	3,281.5	3,323.6	3,304.7	10.3	8.4	-173.36		56.4	-26.6	190.9	173.8	17.05	11.196	
3,325.0	3,306.2	3,348.3	3,328.9	10.4	8.5	-172.32		61.3	-26.6	191.8	174.6	17.15	11.181	
3,400.0	3,380.3	3,422.5	3,401.6	10.7	8.7	-169.25		76.1	-26.5	194.8	177.4	17.43	11.172	
3,420.0	3,400.0	3,442.3	3,421.0	10.8	8.8	-168.44		80.1	-26.5	195.7	178.2	17.51	11.178	
3,500.0	3,479.1	3,521.4	3,498.6	11.1	9.2	-165.31		95.9	-26.4	199.7	181.9	17.77	11.234	
3,515.0	3,493.9	3,536.3	3,513.1	11.1	9.2	-164.74		98.8	-26.4	200.5	182.7	17.82	11.249	
3,600.0	3,577.8	3,620.4	3,595.5	11.5	9.6	-161.57		115.6	-26.3	205.5	187.4	18.08	11.367	
3,610.0	3,587.7	3,630.3	3,605.2	11.5	9.6	-161.21		117.6	-26.3	206.1	188.0	18.11	11.383	
3,700.0	3,676.6	3,719.3	3,692.5	11.9	10.0	-158.06		135.3	-26.2	212.1	193.8	18.35	11.560	
3,705.0	3,681.5	3,724.3	3,697.3	11.9	10.0	-157.89		136.3	-26.2	212.5	194.1	18.36	11.570	
3,800.0	3,775.4	3,818.3	3,789.4	12.3	10.4	-154.76		155.1	-26.1	219.5	200.9	18.60	11.801	
3,895.0	3,869.2	3,912.3	3,881.6	12.7	10.8	-151.83		173.8	-26.0	227.2	208.3	18.83	12.065	
3,900.0	3,874.1	3,917.2	3,886.4	12.7	10.8	-151.68		174.8	-26.0	227.6	208.7	18.84	12.079	
3,990.0	3,963.0	4,006.3	3,973.7	13.1	11.2	-149.10		192.6	-25.9	235.4	216.3	19.05	12.355	
4,000.0	3,972.9	4,016.2	3,983.4	13.1	11.2	-148.82		194.5	-25.9	236.3	217.2	19.07	12.387	
4,085.0	4,056.9	4,100.3	4,065.8	13.5	11.6	-146.55		211.3	-25.8	244.1	224.8	19.27	12.664	
4,100.0	4,071.7	4,115.1	4,080.3	13.5	11.7	-146.17		214.3	-25.8	245.5	226.2	19.31	12.715	
4,180.0	4,150.7	4,194.3	4,157.9	13.9	12.0	-144.18		230.1	-25.8	253.3	233.7	19.51	12.982	
4,209.2	4,179.5	4,223.1	4,186.2	14.0	12.1	-143.49		235.8	-25.7	256.2	236.6	19.58	13.081	
4,275.0	4,244.6	4,288.3	4,250.0	14.3	12.4	-141.97		248.8	-25.7	262.5	242.8	19.73	13.305	
4,300.0	4,269.3	4,313.0	4,274.2	14.4	12.5	-141.39		253.7	-25.6	264.8	245.1	19.79	13.385	
4,370.0	4,338.7	4,382.3	4,342.1	14.7	12.8	-139.73		267.6	-25.6	271.0	251.1	19.94	13.596	
4,400.0	4,368.4	4,411.9	4,371.2	14.8	13.0	-139.01		273.5	-25.5	273.6	253.6	20.00	13.681	
4,465.0	4,433.0	4,476.3	4,434.2	15.0	13.3	-137.41		286.3	-25.5	278.8	258.7	20.12	13.857	
4,500.0	4,467.8	4,510.9	4,468.1	15.2	13.4	-136.54		293.2	-25.4	281.5	261.3	20.19	13.945	
4,560.0	4,527.5	4,570.2	4,526.3	15.4	13.7	-135.01		305.0	-25.4	285.9	265.6	20.29	14.091	
4,600.0	4,567.3	4,609.7	4,565.0	15.6	13.9	-133.96		312.9	-25.4	288.7	268.4	20.36	14.182	
4,655.0	4,622.1	4,664.1	4,618.3	15.8	14.1	-132.50		323.8	-25.3	292.5	272.0	20.45	14.302	
4,700.0	4,667.0	4,708.5	4,661.8	15.9	14.3	-131.28		332.6	-25.3	295.4	274.9	20.53	14.393	
4,750.0	4,716.9	4,757.9	4,710.2	16.1	14.5	-129.88		342.5	-25.2	298.6	278.0	20.61	14.490	
4,800.0	4,766.8	4,807.2	4,758.5	16.3	14.7	-128.46		352.3	-25.2	301.7	281.0	20.69	14.579	
4,845.0	4,811.7	4,851.5	4,801.9	16.4	14.9	-127.15		361.1	-25.1	304.4	283.6	20.77	14.656	
4,900.0	4,866.7	4,905.7	4,855.0	16.6	15.2	-125.51		372.0	-25.1	307.6	286.7	20.87	14.741	
4,940.0	4,906.7	4,945.1	4,893.6	16.7	15.4	-124.30		379.8	-25.0	310.0	289.0	20.94	14.800	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,966.6	5,004.0	4,951.4	16.9	15.6	122.43	391.6	-25.0	313.5	292.4	21.07	14.878		
5,035.0	5,001.6	5,038.4	4,985.1	17.0	15.8	121.32	398.4	-24.9	315.5	294.4	21.14	14.929		
5,109.4	5,076.0	5,111.3	5,056.5	17.1	16.1	72.95	413.0	-24.9	320.0	298.7	21.31	15.017		
5,130.0	5,096.6	5,131.6	5,076.3	17.1	16.2	72.26	417.0	-24.8	321.2	299.9	21.35	15.045		
5,200.0	5,166.6	5,200.2	5,143.6	17.1	16.5	69.96	430.7	-24.8	325.9	304.4	21.53	15.135		
5,225.0	5,191.6	5,224.6	5,167.6	17.1	16.6	69.16	435.6	-24.8	327.7	306.1	21.61	15.163		
5,300.0	5,266.6	5,298.1	5,239.6	17.2	17.0	66.80	450.2	-24.7	333.5	311.6	21.88	15.239		
5,320.0	5,286.6	5,317.7	5,258.8	17.2	17.0	66.19	454.1	-24.7	335.1	313.1	21.96	15.258		
5,400.0	5,366.6	5,396.1	5,335.6	17.2	17.4	63.79	469.8	-24.6	342.0	319.7	22.32	15.325		
5,415.0	5,381.6	5,410.8	5,350.0	17.2	17.5	63.35	472.7	-24.6	343.4	321.0	22.39	15.337		
5,500.0	5,466.6	5,494.1	5,431.6	17.3	17.8	60.92	489.3	-24.5	351.5	328.7	22.83	15.396		
5,510.0	5,476.6	5,503.9	5,441.2	17.3	17.9	60.64	491.3	-24.5	352.5	329.6	22.89	15.403		
5,600.0	5,566.6	5,592.1	5,527.6	17.3	18.3	58.21	508.9	-24.4	361.9	338.5	23.41	15.457		
5,605.0	5,571.6	5,597.0	5,532.4	17.3	18.3	58.08	509.8	-24.4	362.4	339.0	23.44	15.460		
5,700.0	5,666.6	5,690.1	5,623.7	17.4	18.7	55.65	528.4	-24.3	373.0	349.0	24.05	15.512		
5,795.0	5,761.6	5,783.2	5,714.9	17.4	19.2	53.35	547.0	-24.2	384.2	359.5	24.69	15.563		
5,800.0	5,766.6	5,788.1	5,719.7	17.4	19.2	53.23	547.9	-24.2	384.8	360.1	24.72	15.566		
5,890.0	5,856.6	5,881.5	5,811.3	17.5	19.6	51.13	566.0	-24.1	395.7	370.3	25.36	15.603		
5,900.0	5,866.6	5,892.3	5,821.9	17.5	19.7	50.92	567.9	-24.1	396.8	371.4	25.43	15.604		
5,985.0	5,951.6	5,984.6	5,913.0	17.5	20.1	49.30	582.6	-24.0	405.7	379.6	26.03	15.587		
6,000.0	5,966.6	6,001.0	5,929.3	17.6	20.2	49.05	584.9	-24.0	407.1	380.9	26.13	15.580		
6,080.0	6,046.6	6,088.8	6,016.4	17.6	20.5	47.93	595.7	-24.0	413.6	387.0	26.62	15.537		
6,100.0	6,066.6	6,110.8	6,038.3	17.6	20.6	47.69	598.0	-24.0	415.0	388.3	26.74	15.524		
6,175.0	6,141.6	6,193.8	6,121.0	17.6	21.0	46.98	605.1	-23.9	419.4	392.3	27.13	15.461		
6,200.0	6,166.6	6,221.5	6,148.7	17.7	21.1	46.79	607.0	-23.9	420.6	393.3	27.24	15.439		
6,270.0	6,236.6	6,299.4	6,226.4	17.7	21.4	46.43	610.7	-23.9	422.9	395.4	27.53	15.362		
6,300.0	6,266.6	6,332.8	6,259.8	17.7	21.4	46.33	611.7	-23.9	423.5	395.9	27.60	15.342		
6,365.0	6,331.6	6,404.5	6,331.5	17.8	21.6	46.26	612.4	-23.9	423.9	396.2	27.73	15.286		
6,400.0	6,366.6	6,439.5	6,366.5	17.8	21.6	46.26	612.4	-23.9	423.9	396.2	27.79	15.257		
6,460.0	6,426.6	6,499.5	6,426.5	17.8	21.6	46.26	612.4	-23.9	423.9	396.1	27.88	15.209		
6,500.0	6,466.6	6,539.5	6,466.5	17.8	21.6	46.26	612.4	-23.9	423.9	396.0	27.93	15.177		
6,555.0	6,521.6	6,594.5	6,521.5	17.9	21.6	46.26	612.4	-23.9	423.9	395.9	28.02	15.132		
6,600.0	6,566.6	6,639.5	6,566.5	17.9	21.7	46.26	612.4	-23.9	423.9	395.9	28.08	15.097		
6,650.0	6,616.6	6,689.5	6,616.5	17.9	21.7	46.26	612.4	-23.9	423.9	395.8	28.16	15.057		
6,700.0	6,666.6	6,739.5	6,666.5	17.9	21.7	46.26	612.4	-23.9	423.9	395.7	28.23	15.018		
6,745.0	6,711.6	6,784.5	6,711.5	18.0	21.7	46.26	612.4	-23.9	423.9	395.6	28.30	14.982		
6,800.0	6,766.6	6,839.5	6,766.5	18.0	21.8	46.26	612.4	-23.9	423.9	395.6	28.38	14.939		
6,840.0	6,806.6	6,879.5	6,806.5	18.0	21.8	46.26	612.4	-23.9	423.9	395.5	28.44	14.908		
6,900.0	6,866.6	6,939.5	6,866.5	18.1	21.8	46.26	612.4	-23.9	423.9	395.4	28.53	14.862		
6,935.0	6,901.6	6,974.5	6,901.5	18.1	21.8	46.26	612.4	-23.9	423.9	395.4	28.58	14.835		
7,000.0	6,966.6	7,039.5	6,966.5	18.1	21.9	46.26	612.4	-23.9	423.9	395.3	28.67	14.785		
7,030.0	6,996.6	7,069.5	6,996.5	18.1	21.9	46.26	612.4	-23.9	423.9	395.2	28.72	14.762		
7,100.0	7,066.6	7,139.5	7,066.5	18.2	21.9	46.26	612.4	-23.9	423.9	395.1	28.82	14.709		
7,125.0	7,091.6	7,164.5	7,091.5	18.2	21.9	46.26	612.4	-23.9	423.9	395.1	28.86	14.690		
7,200.0	7,166.6	7,239.5	7,166.5	18.2	22.0	46.26	612.4	-23.9	423.9	395.0	28.97	14.634		
7,220.0	7,186.6	7,259.5	7,186.5	18.2	22.0	46.26	612.4	-23.9	423.9	394.9	29.00	14.619		
7,300.0	7,266.6	7,339.5	7,266.5	18.3	22.0	46.26	612.4	-23.9	423.9	394.8	29.12	14.560		
7,315.0	7,281.6	7,354.5	7,281.5	18.3	22.0	46.26	612.4	-23.9	423.9	394.8	29.14	14.548		
7,400.0	7,366.6	7,439.5	7,366.5	18.3	22.0	46.26	612.4	-23.9	423.9	394.7	29.25	14.492		
7,410.0	7,376.6	7,449.5	7,376.5	18.3	22.0	46.26	612.4	-23.9	423.9	394.7	29.27	14.486		
7,500.0	7,466.6	7,620.8	7,545.7	18.4	22.2	48.54	589.7	-24.1	416.1	387.6	28.40	14.647		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Rule Assigned:														
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Offset Depth (usft)	Reference	Offset	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,505.0	7,471.6	7,630.3	7,554.8	18.4	22.2	48.83		587.0	-24.1	415.1	386.7	28.33	14.651	
7,600.0	7,566.6	7,789.5	7,698.5	18.4	22.4	56.74		519.7	-24.6	388.5	361.5	26.99	14.396	
7,695.0	7,661.6	7,907.0	7,789.8	18.5	22.5	67.44		446.0	-25.2	354.3	328.0	26.28	13.483	
7,700.0	7,666.6	7,912.1	7,793.4	18.5	22.6	68.02		442.4	-25.3	352.5	326.2	26.26	13.423	
7,790.0	7,756.6	7,990.7	7,844.7	18.6	22.6	78.20		382.9	-25.7	323.3	297.0	26.26	12.312	
7,800.0	7,766.6	7,998.0	7,849.0	18.6	22.6	79.26		377.0	-25.8	320.6	294.4	26.29	12.198	
7,885.0	7,851.6	8,051.1	7,878.2	18.6	22.7	87.46		332.8	-26.1	305.5	278.9	26.67	11.456	
7,900.0	7,866.6	8,059.0	7,882.2	18.6	22.7	88.75		326.0	-26.2	304.5	277.7	26.76	11.380	
7,920.9	7,887.5	8,069.4	7,887.4	18.6	22.7	90.46		316.9	-26.2	304.0	277.1	26.88	11.308	
7,980.0	7,946.6	8,095.7	7,899.5	18.7	22.7	94.83		293.6	-26.4	308.4	281.2	27.23	11.329	
8,000.0	7,966.6	8,103.6	7,903.0	18.7	22.7	96.16		286.5	-26.5	312.0	284.7	27.34	11.414	
8,075.0	8,041.6	8,129.6	7,913.7	18.7	22.7	100.55		262.8	-26.7	334.2	306.5	27.68	12.073	
8,100.0	8,066.6	8,137.2	7,916.6	18.7	22.8	101.83		255.8	-26.7	344.4	316.6	27.76	12.404	
8,170.0	8,136.6	8,150.0	7,921.3	18.8	22.8	103.97		243.9	-26.8	379.5	351.7	27.82	13.644	
8,200.0	8,166.6	8,163.3	7,925.9	18.8	22.8	106.17		231.4	-26.9	397.0	369.0	28.01	14.175	
8,265.0	8,231.6	8,177.3	7,930.4	18.8	22.8	108.46		218.1	-27.0	439.1	411.0	28.12	15.615	
8,300.0	8,266.6	8,184.1	7,932.5	18.9	22.8	109.55		211.6	-27.1	463.7	435.5	28.18	16.457	
8,360.0	8,326.6	8,200.0	7,937.1	18.9	22.8	112.07		196.4	-27.2	508.5	480.1	28.36	17.933	
8,400.0	8,366.6	8,200.0	7,937.1	18.9	22.8	112.07		196.4	-27.2	539.7	511.4	28.34	19.043	
8,432.4	8,399.0	8,200.0	7,937.1	18.9	22.8	112.07		196.4	-27.2	565.9	537.7	28.22	20.052	
8,450.0	8,416.6	8,200.0	7,937.1	18.9	22.8	-66.09		196.4	-27.2	580.3	552.0	28.23	20.555	
8,455.0	8,421.6	8,200.0	7,937.1	18.9	22.8	-65.44		196.4	-27.2	584.4	556.1	28.23	20.697	
8,500.0	8,466.5	8,217.0	7,941.5	19.0	22.8	-57.51		180.0	-27.3	620.9	592.5	28.42	21.850	
8,550.0	8,515.8	8,226.8	7,943.8	19.0	22.8	-50.79		170.5	-27.4	661.4	632.9	28.53	23.188	
8,600.0	8,564.2	8,250.0	7,948.7	19.0	22.8	-43.89		147.8	-27.6	701.5	672.8	28.73	24.419	
8,645.0	8,606.8	8,250.0	7,948.7	19.1	22.8	-40.20		147.8	-27.6	736.4	707.6	28.77	25.594	
8,650.0	8,611.4	8,250.0	7,948.7	19.1	22.8	-39.82		147.8	-27.6	740.3	711.5	28.78	25.721	
8,700.0	8,657.0	8,250.0	7,948.7	19.1	22.8	-36.23		147.8	-27.6	778.2	749.3	28.88	26.947	
8,740.0	8,692.1	8,273.3	7,952.6	19.2	22.8	-32.69		124.9	-27.8	807.1	778.1	29.07	27.768	
8,750.0	8,700.6	8,276.1	7,953.0	19.2	22.8	-32.03		122.1	-27.8	814.3	785.2	29.10	27.979	
8,800.0	8,741.9	8,300.0	7,956.0	19.2	22.8	-28.76		98.4	-28.0	849.1	819.8	29.32	28.956	
8,835.0	8,769.3	8,300.0	7,956.0	19.2	22.8	-27.31		98.4	-28.0	872.1	842.7	29.44	29.625	
8,850.0	8,780.6	8,300.0	7,956.0	19.3	22.8	-26.74		98.4	-28.0	881.8	852.3	29.50	29.896	
8,900.0	8,816.4	8,320.2	7,957.7	19.3	22.8	-24.56		78.2	-28.1	912.7	883.0	29.74	30.689	
8,930.0	8,836.4	8,329.6	7,958.2	19.3	22.8	-23.50		68.9	-28.2	930.3	900.4	29.89	31.122	
8,950.0	8,849.0	8,350.0	7,958.9	19.4	22.8	-22.61		48.5	-28.4	941.8	911.8	30.01	31.384	
9,000.0	8,878.2	8,350.0	7,958.9	19.4	22.8	-21.45		48.5	-28.4	968.2	938.0	30.27	31.985	
9,025.0	8,891.5	8,362.1	7,959.0	19.4	22.8	-20.77		36.3	-28.5	980.7	950.3	30.40	32.257	
9,050.0	8,903.8	8,383.9	7,959.0	19.5	22.8	-20.07		14.6	-28.7	992.4	961.9	30.52	32.513	
9,100.0	8,925.5	8,428.9	7,959.0	19.5	22.8	-18.90		-30.5	-29.0	1,013.1	982.3	30.78	32.912	
9,120.0	8,933.1	8,447.5	7,959.0	19.5	22.8	-18.52		-49.0	-29.2	1,020.3	989.4	30.89	33.030	
9,150.0	8,943.2	8,475.7	7,959.1	19.6	22.8	-18.02		-77.2	-29.4	1,030.0	998.9	31.05	33.170	
9,200.0	8,956.8	8,523.8	7,959.1	19.6	22.8	-17.39		-125.3	-29.8	1,042.9	1,011.6	31.33	33.285	
9,215.0	8,960.0	8,538.5	7,959.1	19.6	22.8	-17.24		-140.0	-29.9	1,046.0	1,014.6	31.42	33.290	
9,250.0	8,966.1	8,572.9	7,959.1	19.6	22.8	-16.97		-174.4	-30.2	1,051.8	1,020.2	31.63	33.257	
9,300.0	8,971.1	8,622.7	7,959.1	19.7	22.8	-16.75		-224.2	-30.5	1,056.6	1,024.6	31.93	33.090	
9,310.0	8,971.6	8,632.6	7,959.1	19.7	22.8	-16.73		-234.2	-30.6	1,057.0	1,025.0	31.98	33.048	
9,332.1	8,972.0	8,654.7	7,959.2	19.7	22.8	-16.72		-256.2	-30.8	1,057.4	1,025.3	32.10	32.938	
9,400.0	8,972.0	8,722.6	7,959.2	19.8	22.9	-16.72		-324.2	-31.3	1,057.4	1,025.0	32.47	32.570	
9,405.0	8,972.0	8,727.6	7,959.2	19.8	22.9	-16.72		-329.2	-31.4	1,057.4	1,024.9	32.50	32.540	
9,500.0	8,972.1	8,822.6	7,959.2	19.9	22.9	-16.72		-424.2	-32.1	1,057.5	1,024.4	33.07	31.980	

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

ConocoPhillips
Anticollision Report

Company: DELAWARE BASIN WEST
Local Co-ordinate Reference: Well FLAMING SNAIL FEDERAL COM #703H
Project: ATLAS PROSPECT (NM-E)
Reference Site: FLAMING SNAIL FED COM PROJECT
Site Error: 0.0 usft
Reference Well: FLAMING SNAIL FEDERAL COM #703H
Well Error: 3.0 usft
Reference Wellbore: OWB
Reference Design: PWP1

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS
Rule Assigned:
Warning

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

ConocoPhillips
Anticollision Report

Company: DELAWARE BASIN WEST
Local Co-ordinate Reference: Well FLAMING SNAIL FEDERAL COM #703H
Project: ATLAS PROSPECT (NM-E)
Reference Site: FLAMING SNAIL FED COM PROJECT
Site Error: 0.0 usft
Reference Well: FLAMING SNAIL FEDERAL COM #703H
Well Error: 3.0 usft
Reference Wellbore: OWB
Reference Design: PWP1

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS
Rule Assigned:
Warning

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

ConocoPhillips
Anticollision Report

Company: DELAWARE BASIN WEST
Local Co-ordinate Reference: Well FLAMING SNAIL FEDERAL COM #703H
Project: ATLAS PROSPECT (NM-E)
Reference Site: FLAMING SNAIL FED COM PROJECT
Site Error: 0.0 usft
Reference Well: FLAMING SNAIL FEDERAL COM #703H
Well Error: 3.0 usft
Reference Wellbore: OWB
Reference Design: PWP1

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS
Rule Assigned:
Warning
Measured Reference Vertical Measured Vertical Reference Offset Highside Offset Wellbore Centre Distance Between Centres Between Ellipses Minimum Separation Separation Factor

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 2000-r.5 MWD+IFR1+MS, 7459-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
22,300.0	8,979.8	21,622.6	7,965.9	103.9	103.6	-16.91	-13,223.8	-133.9	1,059.6	843.7	215.94	4.907		
22,325.0	8,979.8	21,647.6	7,965.9	104.1	103.8	-16.91	-13,248.8	-134.1	1,059.6	843.3	216.33	4.898		
22,400.0	8,979.9	21,722.6	7,965.9	104.7	104.4	-16.91	-13,323.7	-134.7	1,059.7	842.2	217.49	4.872		
22,420.0	8,979.9	21,742.6	7,965.9	104.8	104.5	-16.91	-13,343.7	-134.8	1,059.7	841.9	217.80	4.865		
22,500.0	8,979.9	21,822.6	7,966.0	105.4	105.1	-16.91	-13,423.7	-135.4	1,059.7	840.6	219.04	4.838		
22,515.0	8,979.9	21,837.6	7,966.0	105.6	105.2	-16.91	-13,438.7	-135.6	1,059.7	840.4	219.27	4.833		
22,600.0	8,980.0	21,922.6	7,966.0	106.2	105.9	-16.91	-13,523.7	-136.2	1,059.7	839.1	220.59	4.804		
22,610.0	8,980.0	21,932.6	7,966.0	106.3	106.0	-16.91	-13,533.7	-136.3	1,059.7	838.9	220.75	4.800		
22,700.0	8,980.0	22,022.6	7,966.1	106.9	106.6	-16.92	-13,623.7	-137.0	1,059.7	837.6	222.15	4.770		
22,705.0	8,980.0	22,027.6	7,966.1	107.0	106.7	-16.92	-13,628.7	-137.1	1,059.7	837.5	222.22	4.769		
22,800.0	8,980.1	22,122.6	7,966.1	107.7	107.4	-16.92	-13,723.7	-137.8	1,059.7	836.0	223.70	4.737		
22,895.0	8,980.2	22,217.6	7,966.2	108.4	108.1	-16.92	-13,818.7	-138.6	1,059.7	834.6	225.17	4.706		
22,900.0	8,980.2	22,222.6	7,966.2	108.5	108.2	-16.92	-13,823.7	-138.6	1,059.7	834.5	225.25	4.705		
22,990.0	8,980.2	22,312.6	7,966.2	109.1	108.8	-16.92	-13,913.7	-139.3	1,059.8	833.1	226.65	4.676		
23,000.0	8,980.2	22,322.6	7,966.2	109.2	108.9	-16.92	-13,923.7	-139.4	1,059.8	832.9	226.80	4.673		
23,085.0	8,980.3	22,407.6	7,966.3	109.9	109.6	-16.92	-14,008.7	-140.1	1,059.8	831.6	228.12	4.646		
23,100.0	8,980.3	22,422.6	7,966.3	110.0	109.7	-16.92	-14,023.7	-140.2	1,059.8	831.4	228.36	4.641		
23,180.0	8,980.3	22,502.6	7,966.3	110.6	110.3	-16.92	-14,103.7	-140.9	1,059.8	830.2	229.60	4.616		
23,200.0	8,980.3	22,522.6	7,966.3	110.7	110.4	-16.92	-14,123.7	-141.0	1,059.8	829.9	229.91	4.610		
23,275.0	8,980.4	22,597.6	7,966.4	111.3	111.0	-16.92	-14,198.7	-141.6	1,059.8	828.7	231.08	4.586		
23,300.0	8,980.4	22,622.6	7,966.4	111.5	111.2	-16.93	-14,223.7	-141.8	1,059.8	828.3	231.46	4.579		
23,370.0	8,980.4	22,692.6	7,966.4	112.0	111.7	-16.93	-14,293.7	-142.4	1,059.8	827.3	232.55	4.557		
23,400.0	8,980.5	22,722.6	7,966.5	112.2	112.0	-16.93	-14,323.7	-142.6	1,059.8	826.8	233.02	4.548		
23,465.0	8,980.5	22,787.6	7,966.5	112.7	112.5	-16.93	-14,388.7	-143.1	1,059.8	825.8	234.03	4.529		
23,500.0	8,980.5	22,822.6	7,966.5	113.0	112.7	-16.93	-14,423.7	-143.4	1,059.8	825.3	234.57	4.518		
23,560.0	8,980.6	22,882.6	7,966.5	113.4	113.2	-16.93	-14,483.7	-143.9	1,059.8	824.3	235.50	4.500		
23,600.0	8,980.6	22,922.6	7,966.6	113.7	113.5	-16.93	-14,523.7	-144.2	1,059.9	823.7	236.12	4.489		
23,655.0	8,980.6	22,977.6	7,966.6	114.2	113.9	-16.93	-14,578.7	-144.6	1,059.9	822.9	236.98	4.472		
23,700.0	8,980.6	23,022.6	7,966.6	114.5	114.2	-16.93	-14,623.7	-145.0	1,059.9	822.2	237.68	4.459		
23,750.0	8,980.7	23,072.6	7,966.6	114.9	114.6	-16.93	-14,673.7	-145.4	1,059.9	821.4	238.46	4.445		
23,800.0	8,980.7	23,122.6	7,966.7	115.3	115.0	-16.93	-14,723.7	-145.8	1,059.9	820.7	239.23	4.430		
23,845.0	8,980.7	23,167.6	7,966.7	115.6	115.4	-16.93	-14,768.7	-146.1	1,059.9	820.0	239.93	4.417		
23,900.0	8,980.8	23,222.6	7,966.7	116.0	115.8	-16.93	-14,823.7	-146.6	1,059.9	819.1	240.79	4.402		
23,940.0	8,980.8	23,262.6	7,966.7	116.3	116.1	-16.93	-14,863.7	-146.9	1,059.9	818.5	241.41	4.391		
24,000.0	8,980.8	23,322.6	7,966.8	116.8	116.5	-16.94	-14,923.7	-147.4	1,059.9	817.6	242.34	4.374		
24,035.0	8,980.8	23,357.6	7,966.8	117.0	116.8	-16.94	-14,958.7	-147.6	1,059.9	817.0	242.89	4.364		
24,100.0	8,980.9	23,422.6	7,966.8	117.5	117.3	-16.94	-15,023.7	-148.2	1,059.9	816.0	243.90	4.346		
24,130.0	8,980.9	23,452.6	7,966.8	117.8	117.5	-16.94	-15,053.7	-148.4	1,059.9	815.6	244.36	4.338		
24,168.5	8,980.9	23,491.1	7,966.9	118.0	117.8	-16.94	-15,092.2	-148.7	1,060.0	815.0	244.96	4.327		
24,200.0	8,980.9	23,522.6	7,966.9	118.3	118.1	-16.94	-15,123.7	-149.0	1,060.0	814.5	245.45	4.318		
24,225.0	8,981.0	23,547.6	7,966.9	118.5	118.2	-16.94	-15,148.7	-149.2	1,060.0	814.1	245.84	4.312		
24,298.5	8,981.0	23,621.1	7,966.9	119.0	118.8	-16.94	-15,222.2	-149.7	1,060.0	813.0	246.98	4.292 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 #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Reference Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	0.0	0.0	3.0	3.0	88.95	1.1	60.0	60.0				
95.0	95.0	95.0	95.0	3.0	3.0	88.95	1.1	60.0	60.0	54.0	6.04	9.942	
100.0	100.0	100.0	100.0	3.0	3.0	88.95	1.1	60.0	60.0	54.0	6.04	9.934	
190.0	190.0	190.0	190.0	3.1	3.1	88.95	1.1	60.0	60.0	53.8	6.25	9.598	
200.0	200.0	200.0	200.0	3.1	3.1	88.95	1.1	60.0	60.0	53.7	6.29	9.546	
285.0	285.0	285.0	285.0	3.3	3.3	88.95	1.1	60.0	60.0	53.5	6.48	9.257	
300.0	300.0	300.0	300.0	3.3	3.3	88.95	1.1	60.0	60.0	53.5	6.52	9.201	
380.0	380.0	380.0	380.0	3.4	3.4	88.95	1.1	60.0	60.0	53.3	6.70	8.954	
400.0	400.0	400.0	400.0	3.4	3.4	88.95	1.1	60.0	60.0	53.3	6.75	8.890	
475.0	475.0	475.0	475.0	3.5	3.5	88.95	1.1	60.0	60.0	53.1	6.91	8.680	
500.0	500.0	500.0	500.0	3.5	3.5	88.95	1.1	60.0	60.0	53.0	6.97	8.609	
570.0	570.0	570.0	570.0	3.6	3.6	88.95	1.1	60.0	60.0	52.9	7.12	8.430	
600.0	600.0	600.0	600.0	3.6	3.6	88.95	1.1	60.0	60.0	52.8	7.18	8.353	
665.0	665.0	665.0	665.0	3.7	3.7	88.95	1.1	60.0	60.0	52.7	7.32	8.200	
700.0	700.0	700.0	700.0	3.8	3.8	88.95	1.1	60.0	60.0	52.6	7.39	8.118	
760.0	760.0	760.0	760.0	3.8	3.8	88.95	1.1	60.0	60.0	52.5	7.51	7.989	
800.0	800.0	800.0	800.0	3.9	3.9	88.95	1.1	60.0	60.0	52.4	7.59	7.902	
855.0	855.0	855.0	855.0	4.0	4.0	88.95	1.1	60.0	60.0	52.3	7.70	7.792	
900.0	900.0	900.0	900.0	4.0	4.0	88.95	1.1	60.0	60.0	52.2	7.79	7.703	
950.0	950.0	950.0	950.0	4.1	4.1	88.95	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	88.95	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	88.95	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	88.95	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	88.95	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	88.95	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	88.95	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	88.95	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	88.95	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	88.95	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	88.95	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	88.95	1.1	60.0	60.0	51.1	8.88	6.758 CC, ES	
1,520.0	1,520.0	1,519.7	1,519.7	4.7	4.7	134.92	1.1	60.1	60.1	51.2	8.94	6.726	
1,600.0	1,600.0	1,598.2	1,598.2	4.9	4.9	135.16	2.0	61.4	62.7	53.5	9.17	6.833	
1,615.0	1,615.0	1,612.9	1,612.9	4.9	4.9	135.24	2.3	61.9	63.6	54.3	9.24	6.878	
1,700.0	1,699.8	1,696.0	1,695.8	5.1	5.1	135.79	4.8	65.6	70.7	61.1	9.63	7.345	
1,710.0	1,709.8	1,705.7	1,705.5	5.1	5.1	135.86	5.2	66.2	71.8	62.2	9.67	7.424	
1,800.0	1,799.5	1,792.9	1,792.4	5.4	5.3	136.54	9.3	72.5	84.1	74.0	10.09	8.331	
1,805.0	1,804.4	1,797.7	1,797.2	5.4	5.3	136.58	9.6	72.9	84.9	74.8	10.12	8.392	
1,900.0	1,898.7	1,888.5	1,887.4	5.7	5.6	137.22	15.6	82.0	102.7	92.2	10.57	9.718	
1,950.1	1,948.2	1,935.9	1,934.2	5.8	5.7	137.51	19.3	87.7	114.0	103.2	10.76	10.598	
1,995.0	1,992.6	1,978.0	1,975.8	5.8	5.9	137.77	23.0	93.2	125.0	114.0	10.92	11.439	
2,000.0	1,997.5	1,982.7	1,980.4	5.8	5.9	137.79	23.4	93.9	126.2	115.3	10.94	11.534	
2,090.0	2,086.4	2,066.3	2,062.6	6.1	6.2	137.73	31.8	106.6	149.8	138.5	11.35	13.197	
2,100.0	2,096.3	2,075.5	2,071.6	6.1	6.2	137.69	32.8	108.1	152.6	141.2	11.40	13.386	
2,185.0	2,180.3	2,153.3	2,147.6	6.3	6.5	137.17	41.9	122.0	177.0	165.2	11.80	15.001	
2,200.0	2,195.1	2,166.9	2,160.9	6.4	6.5	137.05	43.6	124.6	181.5	169.6	11.87	15.291	
2,280.0	2,274.1	2,241.2	2,233.0	6.6	6.8	136.35	53.3	139.4	206.1	193.9	12.26	16.820	
2,300.0	2,293.8	2,260.2	2,251.5	6.7	6.8	136.19	55.9	143.3	212.4	200.0	12.36	17.188	
2,375.0	2,367.9	2,331.4	2,320.6	6.9	7.1	135.66	65.3	157.7	235.7	222.9	12.74	18.503	
2,400.0	2,392.6	2,355.2	2,343.6	7.0	7.1	135.50	68.5	162.5	243.4	230.6	12.87	18.920	
2,470.0	2,461.7	2,421.7	2,408.2	7.2	7.4	135.12	77.3	175.9	265.2	252.0	13.24	20.035	

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

ConocoPhillips
Anticollision Report

Table with 4 columns: Company (DELAWARE BASIN WEST), Local Co-ordinate Reference (Well FLAMING SNAIL FEDERAL COM #703H), 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 #703H), Survey Calculation Method (Minimum Curvature), Well Error (3.0 usft), Output errors are at (2.00 sigma), Reference Wellbore (OWB), Database (EDT 15 Central Prod), Reference Design (PWP1), Offset TVD Reference (Offset Datum)

Table with 14 columns: Offset Design, Survey Program, Reference, Vertical, Measured Depth, Offset, Vertical, Semi Major Axis, Highside Toolface, Offset Wellbore Centre, Distance, Rule Assigned, Minimum Separation, Separation Factor, Warning. Contains multiple rows of well data.

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1														Offset Site Error: 0.0 usft	
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS														Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
7,600.0	7,566.6	7,634.5	7,566.6	18.4	18.4	88.91	336.4	569.7	900.1	867.8	32.23	27.928			
7,695.0	7,661.6	7,729.5	7,661.6	18.5	18.4	88.91	336.4	569.7	900.1	867.7	32.35	27.823			
7,700.0	7,666.6	7,734.5	7,666.6	18.5	18.4	88.91	336.4	569.7	900.1	867.7	32.36	27.818			
7,790.0	7,756.6	7,824.5	7,756.6	18.6	18.5	88.91	336.4	569.7	900.1	867.6	32.47	27.719			
7,800.0	7,766.6	7,834.5	7,766.6	18.6	18.5	88.91	336.4	569.7	900.1	867.6	32.48	27.708			
7,885.0	7,851.6	7,919.5	7,851.6	18.6	18.5	88.91	336.4	569.7	900.1	867.5	32.59	27.615			
7,900.0	7,866.6	7,934.5	7,866.6	18.6	18.5	88.91	336.4	569.7	900.1	867.5	32.61	27.599			
7,980.0	7,946.6	8,014.5	7,946.6	18.7	18.6	88.91	336.4	569.7	900.1	867.3	32.71	27.512			
8,000.0	7,966.6	8,034.5	7,966.6	18.7	18.6	88.91	336.4	569.7	900.1	867.3	32.74	27.491			
8,075.0	8,041.6	8,109.5	8,041.6	18.7	18.6	88.91	336.4	569.7	900.1	867.2	32.84	27.410			
8,100.0	8,066.6	8,134.5	8,066.6	18.7	18.6	88.91	336.4	569.7	900.1	867.2	32.87	27.383			
8,170.0	8,136.6	8,204.5	8,136.6	18.8	18.7	88.91	336.4	569.7	900.1	867.1	32.96	27.308			
8,200.0	8,166.6	8,234.5	8,166.6	18.8	18.7	88.91	336.4	569.7	900.1	867.1	33.00	27.276			
8,265.0	8,231.6	8,299.5	8,231.6	18.8	18.7	88.91	336.4	569.7	900.1	867.0	33.08	27.206			
8,300.0	8,266.6	8,334.5	8,266.6	18.9	18.8	88.91	336.4	569.7	900.1	866.9	33.13	27.169			
8,360.0	8,326.6	8,394.5	8,326.6	18.9	18.8	88.91	336.4	569.7	900.1	866.9	33.21	27.105			
8,400.0	8,366.6	8,434.5	8,366.6	18.9	18.8	88.91	336.4	569.7	900.1	866.8	33.25	27.068			
8,432.4	8,399.0	8,466.9	8,399.0	18.9	18.8	88.91	336.4	569.7	900.1	866.8	33.27	27.051			
8,450.0	8,416.6	8,484.5	8,416.6	18.9	18.8	-91.58	336.4	569.7	900.1	866.8	33.28	27.044			
8,455.0	8,421.6	8,489.2	8,421.3	18.9	18.8	-91.59	336.4	569.7	900.1	866.8	33.28	27.043			
8,500.0	8,466.5	8,529.7	8,461.8	19.0	18.8	-91.66	334.7	569.8	900.3	867.0	33.29	27.040			
8,550.0	8,515.8	8,574.9	8,506.6	19.0	18.9	-91.73	329.5	570.3	900.9	867.6	33.30	27.052			
8,600.0	8,564.2	8,620.2	8,551.1	19.0	18.9	-91.78	320.8	571.1	902.0	868.7	33.31	27.081			
8,645.0	8,606.8	8,661.1	8,590.5	19.1	18.9	-91.82	309.9	572.1	903.2	869.9	33.31	27.120			
8,650.0	8,611.4	8,665.7	8,594.9	19.1	18.9	-91.82	308.5	572.2	903.4	870.1	33.31	27.125			
8,700.0	8,657.0	8,711.4	8,637.7	19.1	18.9	-91.84	292.8	573.6	905.2	871.9	33.30	27.184			
8,740.0	8,692.1	8,748.1	8,671.1	19.2	19.0	-91.85	277.7	575.0	906.9	873.6	33.29	27.240			
8,750.0	8,700.6	8,757.3	8,679.4	19.2	19.0	-91.85	273.6	575.4	907.4	874.1	33.29	27.255			
8,800.0	8,741.9	8,803.5	8,719.6	19.2	19.0	-91.84	251.0	577.4	910.0	876.7	33.29	27.338			
8,835.0	8,769.3	8,835.9	8,746.7	19.2	19.0	-91.82	233.2	579.0	912.0	878.7	33.28	27.401			
8,850.0	8,780.6	8,850.0	8,758.1	19.3	19.0	-91.82	225.0	579.7	912.9	879.6	33.28	27.430			
8,900.0	8,816.4	8,896.6	8,794.5	19.3	19.1	-91.77	196.0	582.4	916.1	882.8	33.28	27.528			
8,930.0	8,836.4	8,924.8	8,815.3	19.3	19.1	-91.74	177.0	584.1	918.2	884.9	33.28	27.588			
8,950.0	8,849.0	8,943.7	8,828.7	19.4	19.1	-91.72	163.7	585.3	919.6	886.4	33.28	27.630			
9,000.0	8,878.2	8,991.1	8,860.3	19.4	19.1	-91.65	128.6	588.4	923.5	890.2	33.30	27.733			
9,025.0	8,891.5	9,015.0	8,875.1	19.4	19.1	-91.61	109.9	590.1	925.5	892.2	33.31	27.783			
9,050.0	8,903.8	9,039.0	8,889.1	19.5	19.2	-91.57	90.6	591.9	927.6	894.2	33.32	27.834			
9,100.0	8,925.5	9,087.2	8,914.9	19.5	19.2	-91.47	50.0	595.5	931.9	898.5	33.36	27.930			
9,120.0	8,933.1	9,106.6	8,924.2	19.5	19.2	-91.43	33.1	597.0	933.7	900.3	33.39	27.966			
9,150.0	8,943.2	9,135.8	8,937.3	19.6	19.3	-91.37	7.0	599.4	936.4	903.0	33.42	28.019			
9,200.0	8,956.8	9,185.0	8,956.1	19.6	19.3	-91.25	-38.2	603.5	941.1	907.6	33.49	28.098			
9,215.0	8,960.0	9,199.8	8,961.0	19.6	19.3	-91.21	-52.1	604.7	942.5	909.0	33.52	28.119			
9,250.0	8,966.1	9,234.6	8,971.1	19.6	19.4	-91.12	-85.2	607.7	945.9	912.3	33.58	28.165			
9,300.0	8,971.1	9,284.7	8,982.1	19.7	19.4	-90.99	-133.9	612.1	950.8	917.1	33.69	28.219			
9,310.0	8,971.6	9,294.8	8,983.8	19.7	19.5	-90.96	-143.8	613.0	951.8	918.1	33.72	28.228			
9,332.1	8,972.0	9,317.1	8,986.9	19.7	19.5	-90.90	-165.9	615.0	954.0	920.3	33.78	28.246			
9,400.0	8,972.0	9,387.2	8,991.0	19.8	19.6	-91.14	-235.5	621.2	960.8	926.8	33.98	28.274			
9,405.0	8,972.0	9,394.7	8,991.0	19.8	19.6	-91.14	-243.0	621.9	961.2	927.2	34.01	28.267			
9,500.0	8,972.1	9,537.5	8,991.1	19.9	19.8	-91.13	-385.5	630.7	967.9	933.3	34.57	27.998			
9,595.0	8,972.2	9,676.2	8,991.1	20.0	20.1	-91.12	-524.2	632.5	969.8	934.7	35.16	27.582			
9,600.0	8,972.2	9,681.2	8,991.1	20.0	20.1	-91.12	-529.2	632.5	969.8	934.6	35.18	27.564			

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

ConocoPhillips
Anticollision Report

Company: DELAWARE BASIN WEST; Local Co-ordinate Reference: Well FLAMING SNAIL FEDERAL COM #703H; Project: ATLAS PROSPECT (NM-E); Reference Site: FLAMING SNAIL FED COM PROJECT; Site Error: 0.0 usft; Reference Well: FLAMING SNAIL FEDERAL COM #703H; Well Error: 3.0 usft; Reference Wellbore: OWB; Reference Design: PWP1; TVD Reference: *RKB 32ft + GL 3129.3ft @ 3161.3usft; MD Reference: *RKB 32ft + GL 3129.3ft @ 3161.3usft; North Reference: Grid; Survey Calculation Method: Minimum Curvature; Output errors are at: 2.00 sigma; Database: EDT 15 Central Prod; Offset TVD Reference: Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS
Reference: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS
Rule Assigned:
Measured Depth (usft), Vertical Depth (usft), Measured Depth (usft), Vertical Depth (usft), Reference (usft), Offset (usft), Semi Major Axis (usft), Highside Toolface (°), Offset Wellbore Centre (+N/-S (usft), +E/-W (usft)), Distance (Between Centres (usft), Between Ellipses (usft)), Minimum Separation (usft), Separation Factor, Warning

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #701H - OWB - PWP1													Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8486-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft		
Reference													Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
22,400.0	8,979.9	22,481.2	8,997.1	104.7	105.0	-91.02	-13,328.8	526.8	969.9	760.3	209.60	4.627				
22,420.0	8,979.9	22,501.2	8,997.1	104.8	105.2	-91.02	-13,348.8	526.6	969.9	760.0	209.90	4.621				
22,500.0	8,979.9	22,581.2	8,997.1	105.4	105.8	-91.02	-13,428.8	526.0	969.9	758.8	211.11	4.594				
22,515.0	8,979.9	22,596.2	8,997.2	105.6	105.9	-91.02	-13,443.8	525.9	969.9	758.6	211.33	4.589				
22,600.0	8,980.0	22,681.2	8,997.2	106.2	106.5	-91.02	-13,528.8	525.2	969.9	757.3	212.62	4.562				
22,610.0	8,980.0	22,691.2	8,997.2	106.3	106.6	-91.02	-13,538.8	525.1	969.9	757.1	212.77	4.558				
22,700.0	8,980.0	22,781.2	8,997.2	106.9	107.3	-91.02	-13,628.8	524.3	969.9	755.8	214.13	4.530				
22,705.0	8,980.0	22,786.2	8,997.2	107.0	107.3	-91.02	-13,633.8	524.3	969.9	755.7	214.20	4.528				
22,800.0	8,980.1	22,881.2	8,997.3	107.7	108.0	-91.02	-13,728.8	523.5	969.9	754.3	215.64	4.498				
22,895.0	8,980.2	22,976.2	8,997.3	108.4	108.7	-91.01	-13,823.8	522.7	969.9	752.8	217.07	4.468				
22,900.0	8,980.2	22,981.2	8,997.3	108.5	108.8	-91.01	-13,828.8	522.7	969.9	752.7	217.15	4.467				
22,990.0	8,980.2	23,071.2	8,997.4	109.1	109.5	-91.01	-13,918.7	521.9	969.9	751.4	218.51	4.439				
23,000.0	8,980.2	23,081.2	8,997.4	109.2	109.5	-91.01	-13,928.7	521.9	969.9	751.2	218.66	4.436				
23,085.0	8,980.3	23,166.2	8,997.4	109.9	110.2	-91.01	-14,013.7	521.2	969.9	750.0	219.94	4.410				
23,100.0	8,980.3	23,181.2	8,997.4	110.0	110.3	-91.01	-14,028.7	521.0	969.9	749.7	220.17	4.405				
23,180.0	8,980.3	23,261.2	8,997.5	110.6	110.9	-91.01	-14,108.7	520.4	969.9	748.5	221.38	4.381				
23,200.0	8,980.3	23,281.2	8,997.5	110.7	111.0	-91.01	-14,128.7	520.2	969.9	748.2	221.68	4.375				
23,275.0	8,980.4	23,356.2	8,997.5	111.3	111.6	-91.01	-14,203.7	519.6	969.9	747.1	222.81	4.353				
23,300.0	8,980.4	23,381.2	8,997.5	111.5	111.8	-91.01	-14,228.7	519.4	969.9	746.7	223.19	4.346				
23,370.0	8,980.4	23,451.2	8,997.6	112.0	112.3	-91.01	-14,298.7	518.8	969.9	745.6	224.25	4.325				
23,400.0	8,980.5	23,481.2	8,997.6	112.2	112.6	-91.01	-14,328.7	518.6	969.9	745.2	224.70	4.316				
23,465.0	8,980.5	23,546.2	8,997.6	112.7	113.0	-91.01	-14,393.7	518.0	969.9	744.2	225.68	4.298				
23,500.0	8,980.5	23,581.2	8,997.6	113.0	113.3	-91.01	-14,428.7	517.7	969.9	743.7	226.21	4.288				
23,560.0	8,980.6	23,641.2	8,997.6	113.4	113.8	-91.01	-14,488.7	517.2	969.9	742.8	227.12	4.270				
23,600.0	8,980.6	23,681.2	8,997.7	113.7	114.1	-91.01	-14,528.7	516.9	969.9	742.2	227.72	4.259				
23,655.0	8,980.6	23,736.2	8,997.7	114.2	114.5	-91.01	-14,583.7	516.5	969.9	741.3	228.55	4.244				
23,700.0	8,980.6	23,781.2	8,997.7	114.5	114.8	-91.01	-14,628.7	516.1	969.9	740.7	229.24	4.231				
23,750.0	8,980.7	23,831.2	8,997.7	114.9	115.2	-91.01	-14,678.7	515.7	969.9	739.9	229.99	4.217				
23,800.0	8,980.7	23,881.2	8,997.8	115.3	115.6	-91.01	-14,728.7	515.3	969.9	739.1	230.75	4.203				
23,845.0	8,980.7	23,926.2	8,997.8	115.6	115.9	-91.01	-14,773.7	514.9	969.9	738.5	231.43	4.191				
23,900.0	8,980.8	23,981.2	8,997.8	116.0	116.3	-91.01	-14,828.7	514.4	969.9	737.6	232.26	4.176				
23,940.0	8,980.8	24,021.2	8,997.8	116.3	116.6	-91.01	-14,868.7	514.1	969.9	737.0	232.86	4.165				
24,000.0	8,980.8	24,081.2	8,997.8	116.8	117.1	-91.01	-14,928.7	513.6	969.9	736.1	233.77	4.149				
24,035.0	8,980.8	24,116.2	8,997.9	117.0	117.3	-91.01	-14,963.7	513.3	969.9	735.6	234.30	4.140				
24,100.0	8,980.9	24,181.2	8,997.9	117.5	117.8	-91.01	-15,028.7	512.8	969.9	734.6	235.28	4.122				
24,130.0	8,980.9	24,211.2	8,997.9	117.8	118.1	-91.00	-15,058.7	512.5	969.9	734.2	235.74	4.114				
24,168.5	8,980.9	24,249.7	8,997.9	118.0	118.4	-91.00	-15,097.2	512.2	969.9	733.6	236.32	4.104				
24,200.0	8,980.9	24,281.2	8,997.9	118.3	118.6	-91.00	-15,128.7	512.0	969.9	733.1	236.79	4.096				
24,225.0	8,981.0	24,306.2	8,998.0	118.5	118.8	-91.00	-15,153.7	511.7	969.9	732.7	237.17	4.089				
24,298.5	8,981.0	24,379.7	8,998.0	119.0	119.3	-91.00	-15,227.2	511.1	969.9	731.6	238.28	4.070 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 #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS														
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre (+N/-S (usft))	Offset Wellbore Centre (+E/-W (usft))	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	3.0	3.0		88.85	0.6	30.0	30.0				
95.0	95.0	94.9	94.9	3.0	3.0		88.85	0.6	30.0	30.0	24.0	6.04	4.971	
100.0	100.0	99.9	99.9	3.0	3.0		88.85	0.6	30.0	30.0	24.0	6.04	4.967	
190.0	190.0	189.9	189.9	3.1	3.1		88.85	0.6	30.0	30.0	23.8	6.25	4.799	
200.0	200.0	199.9	199.9	3.1	3.1		88.85	0.6	30.0	30.0	23.7	6.29	4.773	
285.0	285.0	284.9	284.9	3.3	3.3		88.85	0.6	30.0	30.0	23.5	6.48	4.629	
300.0	300.0	299.9	299.9	3.3	3.3		88.85	0.6	30.0	30.0	23.5	6.52	4.601	
380.0	380.0	379.9	379.9	3.4	3.4		88.85	0.6	30.0	30.0	23.3	6.70	4.477	
400.0	400.0	399.9	399.9	3.4	3.4		88.85	0.6	30.0	30.0	23.3	6.75	4.445	
475.0	475.0	474.9	474.9	3.5	3.5		88.85	0.6	30.0	30.0	23.1	6.91	4.340	
500.0	500.0	499.9	499.9	3.5	3.5		88.85	0.6	30.0	30.0	23.0	6.97	4.305	
570.0	570.0	569.9	569.9	3.6	3.6		88.85	0.6	30.0	30.0	22.9	7.12	4.215	
600.0	600.0	599.9	599.9	3.6	3.6		88.85	0.6	30.0	30.0	22.8	7.18	4.177	
665.0	665.0	664.9	664.9	3.7	3.7		88.85	0.6	30.0	30.0	22.7	7.32	4.100	
700.0	700.0	699.9	699.9	3.8	3.8		88.85	0.6	30.0	30.0	22.6	7.39	4.059	
760.0	760.0	759.9	759.9	3.8	3.8		88.85	0.6	30.0	30.0	22.5	7.51	3.994	
800.0	800.0	799.9	799.9	3.9	3.9		88.85	0.6	30.0	30.0	22.4	7.59	3.951	
855.0	855.0	854.9	854.9	4.0	4.0		88.85	0.6	30.0	30.0	22.3	7.70	3.896	
900.0	900.0	899.9	899.9	4.0	4.0		88.85	0.6	30.0	30.0	22.2	7.79	3.852	
950.0	950.0	949.9	949.9	4.1	4.1		88.85	0.6	30.0	30.0	22.1	7.89	3.805	
1,000.0	1,000.0	999.9	999.9	4.1	4.1		88.85	0.6	30.0	30.0	22.0	7.98	3.759	
1,045.0	1,045.0	1,044.9	1,044.9	4.2	4.2		88.85	0.6	30.0	30.0	21.9	8.07	3.720	
1,100.0	1,100.0	1,099.9	1,099.9	4.2	4.2		88.85	0.6	30.0	30.0	21.8	8.17	3.673	
1,140.0	1,140.0	1,139.9	1,139.9	4.3	4.3		88.85	0.6	30.0	30.0	21.8	8.24	3.641	
1,200.0	1,200.0	1,199.9	1,199.9	4.4	4.4		88.85	0.6	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		88.85	0.6	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		88.85	0.6	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		88.85	0.6	30.0	30.0	21.4	8.58	3.496	
1,400.0	1,400.0	1,399.9	1,399.9	4.6	4.6		88.85	0.6	30.0	30.0	21.3	8.71	3.446	
1,425.0	1,425.0	1,424.9	1,424.9	4.6	4.6		88.85	0.6	30.0	30.0	21.3	8.75	3.429	
1,500.0	1,500.0	1,499.9	1,499.9	4.7	4.7		88.85	0.6	30.0	30.0	21.1	8.88	3.379 CC, ES	
1,520.0	1,520.0	1,519.8	1,519.8	4.7	4.8		134.79	0.7	30.0	30.1	21.2	8.93	3.370	
1,600.0	1,600.0	1,599.5	1,599.5	4.9	4.9		134.13	2.2	30.6	31.9	22.8	9.11	3.499	
1,615.0	1,615.0	1,614.4	1,614.4	4.9	4.9		133.92	2.7	30.8	32.5	23.3	9.17	3.543	
1,700.0	1,699.8	1,698.8	1,698.7	5.1	5.2		132.46	7.0	32.5	37.6	28.0	9.51	3.949	
1,710.0	1,709.8	1,708.7	1,708.6	5.1	5.2		132.27	7.7	32.7	38.3	28.8	9.55	4.014	
1,800.0	1,799.5	1,797.7	1,797.2	5.4	5.4		130.55	15.0	35.5	47.0	37.1	9.91	4.747	
1,805.0	1,804.4	1,802.7	1,802.1	5.4	5.5		130.46	15.5	35.7	47.6	37.7	9.92	4.796	
1,900.0	1,898.7	1,896.5	1,895.2	5.7	5.6		129.16	25.8	39.6	60.1	49.9	10.21	5.888	
1,950.1	1,948.2	1,946.0	1,944.4	5.8	5.7		129.31	31.5	41.8	67.6	57.3	10.35	6.530	
1,995.0	1,992.6	1,990.4	1,988.4	5.8	5.8		129.75	36.5	43.7	74.6	64.1	10.49	7.112	
2,000.0	1,997.5	1,995.3	1,993.3	5.8	5.8		129.79	37.1	43.9	75.3	64.8	10.50	7.176	
2,090.0	2,086.4	2,084.2	2,081.6	6.1	6.0		130.44	47.2	47.8	89.3	78.5	10.84	8.237	
2,100.0	2,096.3	2,094.1	2,091.4	6.1	6.1		130.50	48.3	48.2	90.9	80.0	10.88	8.351	
2,185.0	2,180.3	2,178.0	2,174.7	6.3	6.3		130.94	57.9	51.9	104.1	92.9	11.22	9.278	
2,200.0	2,195.1	2,192.9	2,189.4	6.4	6.3		131.00	59.6	52.5	106.4	95.1	11.28	9.436	
2,280.0	2,274.1	2,271.9	2,267.9	6.6	6.6		131.31	68.6	55.9	118.8	107.2	11.60	10.244	
2,300.0	2,293.8	2,291.6	2,287.5	6.7	6.6		131.38	70.8	56.8	122.0	110.3	11.68	10.438	
2,375.0	2,367.9	2,365.7	2,361.0	6.9	6.8		131.60	79.3	60.0	133.6	121.6	11.99	11.139	
2,400.0	2,392.6	2,390.4	2,385.5	7.0	6.9		131.67	82.1	61.1	137.5	125.4	12.10	11.365	
2,470.0	2,461.7	2,459.6	2,454.2	7.2	7.1		131.83	90.0	64.1	148.4	136.0	12.40	11.971	

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Measured Reference Depth (usft)	Vertical Depth (usft)	Measured Offset Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis Toolface (°)	Offset Wellbore Centre +N/-S (usft) +E/-W (usft)		Distance Between Centres (usft) Between Ellipses (usft)		Minimum Separation (usft)	Separation Factor	Warning	
2,500.0	2,491.4	2,489.2	2,483.6	7.3	7.2	131.90	93.3	65.4	153.0	140.5	12.52	12.221		
2,565.0	2,555.6	2,553.4	2,547.3	7.5	7.4	132.02	100.6	68.2	163.2	150.3	12.80	12.742		
2,600.0	2,590.1	2,588.0	2,581.6	7.7	7.5	132.09	104.6	69.7	168.6	155.6	12.96	13.013		
2,660.0	2,649.4	2,647.3	2,640.4	7.9	7.7	132.18	111.3	72.2	177.9	164.7	13.22	13.460		
2,700.0	2,688.9	2,686.8	2,679.7	8.0	7.9	132.24	115.8	73.9	184.1	170.8	13.40	13.747		
2,755.0	2,743.2	2,741.1	2,733.6	8.2	8.0	132.32	122.0	76.3	192.7	179.1	13.64	14.127		
2,800.0	2,787.7	2,785.6	2,777.7	8.4	8.2	132.38	127.1	78.2	199.7	185.9	13.84	14.427		
2,850.0	2,837.1	2,834.9	2,826.7	8.6	8.4	132.43	132.7	80.4	207.5	193.4	14.07	14.749		
2,900.0	2,886.5	2,884.3	2,875.8	8.7	8.5	132.49	138.3	82.5	215.3	201.0	14.29	15.059		
2,945.0	2,930.9	2,928.8	2,919.9	8.9	8.7	132.53	143.4	84.5	222.3	207.8	14.50	15.329		
3,000.0	2,985.2	2,983.1	2,973.8	9.1	8.9	132.59	149.6	86.8	230.8	216.1	14.75	15.647		
3,040.0	3,024.7	3,022.6	3,013.0	9.3	9.0	132.62	154.1	88.5	237.0	222.1	14.94	15.871		
3,100.0	3,084.0	3,081.9	3,071.8	9.5	9.2	132.67	160.8	91.1	246.4	231.2	15.21	16.195		
3,135.0	3,118.6	3,116.5	3,106.2	9.6	9.4	132.70	164.7	92.6	251.8	236.4	15.38	16.377		
3,200.0	3,182.8	3,180.7	3,169.9	9.9	9.6	132.75	172.1	95.4	261.9	246.2	15.68	16.705		
3,230.0	3,212.4	3,210.3	3,199.3	10.0	9.7	132.77	175.4	96.7	266.6	250.8	15.82	16.852		
3,300.0	3,281.5	3,279.5	3,267.9	10.3	10.0	132.81	183.3	99.7	277.5	261.3	16.15	17.182		
3,325.0	3,306.2	3,304.2	3,292.4	10.4	10.1	132.83	186.1	100.8	281.4	265.1	16.27	17.297		
3,400.0	3,380.3	3,378.2	3,366.0	10.7	10.3	132.87	194.6	104.0	293.0	276.4	16.62	17.629		
3,420.0	3,400.0	3,398.0	3,385.6	10.8	10.4	132.88	196.8	104.8	296.1	279.4	16.72	17.715		
3,500.0	3,479.1	3,477.0	3,464.0	11.1	10.7	132.93	205.8	108.3	308.6	291.5	17.10	18.047		
3,515.0	3,493.9	3,491.8	3,478.7	11.1	10.8	132.94	207.5	108.9	310.9	293.8	17.17	18.108		
3,600.0	3,577.8	3,575.8	3,562.1	11.5	11.1	132.98	217.0	112.6	324.1	306.6	17.58	18.440		
3,610.0	3,587.7	3,585.7	3,571.9	11.5	11.1	132.98	218.2	113.0	325.7	308.1	17.63	18.478		
3,700.0	3,676.6	3,674.6	3,660.1	11.9	11.5	133.02	228.3	116.8	339.7	321.6	18.06	18.809		
3,705.0	3,681.5	3,679.5	3,665.0	11.9	11.5	133.02	228.9	117.1	340.5	322.4	18.09	18.827		
3,800.0	3,775.4	3,773.4	3,758.2	12.3	11.8	133.06	239.5	121.1	355.3	336.7	18.55	19.156		
3,895.0	3,869.2	3,867.2	3,851.3	12.7	12.2	133.10	250.2	125.2	370.0	351.0	19.01	19.467		
3,900.0	3,874.1	3,872.2	3,856.2	12.7	12.2	133.10	250.8	125.4	370.8	351.8	19.03	19.483		
3,990.0	3,963.0	3,961.1	3,944.5	13.1	12.6	133.13	260.9	129.3	384.8	365.3	19.47	19.792		
4,000.0	3,972.9	3,970.9	3,954.3	13.1	12.6	133.13	262.0	129.7	386.4	366.9	19.52	19.762		
4,085.0	4,056.9	4,054.9	4,037.6	13.5	12.9	133.16	271.6	133.4	399.6	379.7	19.94	20.041		
4,100.0	4,071.7	4,069.7	4,052.3	13.5	13.0	133.16	273.3	134.0	401.9	381.9	20.01	20.084		
4,180.0	4,150.7	4,148.7	4,130.7	13.9	13.3	133.19	282.3	137.4	414.4	394.0	20.41	20.300		
4,209.2	4,179.5	4,177.6	4,159.4	14.0	13.4	133.19	285.6	138.7	418.9	398.4	20.56	20.377		
4,275.0	4,244.6	4,244.0	4,225.3	14.3	13.7	133.27	292.9	141.5	428.8	408.0	20.88	20.539		
4,300.0	4,269.3	4,269.5	4,250.6	14.4	13.8	133.30	295.6	142.5	432.4	411.4	21.00	20.587		
4,370.0	4,338.7	4,341.0	4,321.8	14.7	14.0	133.40	302.5	145.2	441.7	420.4	21.35	20.693		
4,400.0	4,368.4	4,371.7	4,352.3	14.8	14.2	133.44	305.2	146.2	445.5	424.0	21.49	20.724		
4,465.0	4,433.0	4,438.3	4,418.7	15.0	14.4	133.55	310.6	148.2	452.9	431.1	21.80	20.772		
4,500.0	4,467.8	4,474.2	4,454.5	15.2	14.5	133.62	313.2	149.2	456.6	434.7	21.97	20.783		
4,560.0	4,527.5	4,535.9	4,516.0	15.4	14.7	133.74	317.1	150.7	462.4	440.2	22.25	20.785		
4,600.0	4,567.3	4,577.0	4,557.1	15.6	14.9	133.82	319.4	151.6	465.9	443.5	22.43	20.770		
4,655.0	4,622.1	4,633.6	4,613.6	15.8	15.1	133.95	322.1	152.6	470.2	447.5	22.67	20.737		
4,700.0	4,667.0	4,680.0	4,659.9	15.9	15.2	134.06	323.9	153.3	473.3	450.4	22.87	20.693		
4,750.0	4,716.9	4,731.5	4,711.4	16.1	15.4	134.18	325.5	153.9	476.3	453.2	23.08	20.634		
4,800.0	4,766.8	4,783.1	4,763.0	16.3	15.5	134.32	326.7	154.4	478.8	455.5	23.29	20.558		
4,845.0	4,811.7	4,829.5	4,809.4	16.4	15.6	134.45	327.4	154.7	480.6	457.2	23.46	20.488		
4,900.0	4,866.7	4,886.3	4,866.2	16.6	15.7	134.62	327.8	154.8	482.4	458.7	23.66	20.388		
4,940.0	4,906.7	4,926.7	4,906.6	16.7	15.8	134.73	327.8	154.8	483.3	459.5	23.79	20.319		
5,000.0	4,966.6	4,986.6	4,966.5	16.9	15.8	134.86	327.8	154.8	484.3	460.4	23.97	20.204		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	Separation Factor	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
5,035.0	5,001.6	5,021.6	5,001.5	17.0	15.8	134.91	327.8	154.8	484.7	460.7	24.05	20.152			
5,109.4	5,076.0	5,096.0	5,075.9	17.1	15.9	89.00	327.8	154.8	485.1	460.8	24.23	20.023			
5,130.0	5,096.6	5,116.6	5,096.5	17.1	15.9	89.00	327.8	154.8	485.1	460.8	24.26	19.999			
5,200.0	5,166.6	5,186.6	5,166.5	17.1	15.9	89.00	327.8	154.8	485.1	460.7	24.36	19.916			
5,225.0	5,191.6	5,211.6	5,191.5	17.1	15.9	89.00	327.8	154.8	485.1	460.7	24.39	19.885			
5,300.0	5,266.6	5,286.6	5,266.5	17.2	16.0	89.00	327.8	154.8	485.1	460.6	24.51	19.793			
5,320.0	5,286.6	5,306.6	5,286.5	17.2	16.0	89.00	327.8	154.8	485.1	460.5	24.54	19.769			
5,400.0	5,366.6	5,386.6	5,366.5	17.2	16.0	89.00	327.8	154.8	485.1	460.4	24.66	19.672			
5,415.0	5,381.6	5,401.6	5,381.5	17.2	16.0	89.00	327.8	154.8	485.1	460.4	24.68	19.654			
5,500.0	5,466.6	5,486.6	5,466.5	17.3	16.1	89.00	327.8	154.8	485.1	460.3	24.81	19.552			
5,510.0	5,476.6	5,496.6	5,476.5	17.3	16.1	89.00	327.8	154.8	485.1	460.2	24.82	19.540			
5,600.0	5,566.6	5,586.6	5,566.5	17.3	16.2	89.00	327.8	154.8	485.1	460.1	24.96	19.433			
5,605.0	5,571.6	5,591.6	5,571.5	17.3	16.2	89.00	327.8	154.8	485.1	460.1	24.97	19.428			
5,700.0	5,666.6	5,686.6	5,666.5	17.4	16.2	89.00	327.8	154.8	485.1	460.0	25.11	19.316			
5,795.0	5,761.6	5,781.6	5,761.5	17.4	16.3	89.00	327.8	154.8	485.1	459.8	25.26	19.206			
5,800.0	5,766.6	5,786.6	5,766.5	17.4	16.3	89.00	327.8	154.8	485.1	459.8	25.26	19.201			
5,890.0	5,856.6	5,876.6	5,856.5	17.5	16.3	89.00	327.8	154.8	485.1	459.7	25.40	19.097			
5,900.0	5,866.6	5,886.6	5,866.5	17.5	16.3	89.00	327.8	154.8	485.1	459.7	25.42	19.086			
5,985.0	5,951.6	5,971.6	5,951.5	17.5	16.4	89.00	327.8	154.8	485.1	459.5	25.54	18.990			
6,000.0	5,966.6	5,986.6	5,966.5	17.6	16.4	89.00	327.8	154.8	485.1	459.5	25.57	18.973			
6,080.0	6,046.6	6,066.6	6,046.5	17.6	16.4	89.00	327.8	154.8	485.1	459.4	25.69	18.883			
6,100.0	6,066.6	6,086.6	6,066.5	17.6	16.5	89.00	327.8	154.8	485.1	459.4	25.72	18.861			
6,175.0	6,141.6	6,161.6	6,141.5	17.6	16.5	89.00	327.8	154.8	485.1	459.2	25.83	18.778			
6,200.0	6,166.6	6,186.6	6,166.5	17.7	16.5	89.00	327.8	154.8	485.1	459.2	25.87	18.750			
6,270.0	6,236.6	6,256.6	6,236.5	17.7	16.6	89.00	327.8	154.8	485.1	459.1	25.98	18.673			
6,300.0	6,266.6	6,286.6	6,266.5	17.7	16.6	89.00	327.8	154.8	485.1	459.1	26.02	18.641			
6,365.0	6,331.6	6,351.6	6,331.5	17.8	16.6	89.00	327.8	154.8	485.1	459.0	26.12	18.570			
6,400.0	6,366.6	6,386.6	6,366.5	17.8	16.6	89.00	327.8	154.8	485.1	458.9	26.17	18.533			
6,460.0	6,426.6	6,446.6	6,426.5	17.8	16.7	89.00	327.8	154.8	485.1	458.8	26.27	18.468			
6,500.0	6,466.6	6,486.6	6,466.5	17.8	16.7	89.00	327.8	154.8	485.1	458.7	26.33	18.425			
6,555.0	6,521.6	6,541.6	6,521.5	17.9	16.7	89.00	327.8	154.8	485.1	458.7	26.41	18.367			
6,600.0	6,566.6	6,586.6	6,566.5	17.9	16.8	89.00	327.8	154.8	485.1	458.6	26.48	18.320			
6,650.0	6,616.6	6,636.6	6,616.5	17.9	16.8	89.00	327.8	154.8	485.1	458.5	26.55	18.267			
6,700.0	6,666.6	6,686.6	6,666.5	17.9	16.8	89.00	327.8	154.8	485.1	458.4	26.63	18.215			
6,745.0	6,711.6	6,731.6	6,711.5	18.0	16.9	89.00	327.8	154.8	485.1	458.4	26.70	18.168			
6,800.0	6,766.6	6,786.6	6,766.5	18.0	16.9	89.00	327.8	154.8	485.1	458.3	26.78	18.111			
6,840.0	6,806.6	6,826.6	6,806.5	18.0	16.9	89.00	327.8	154.8	485.1	458.2	26.84	18.070			
6,900.0	6,866.6	6,886.6	6,866.5	18.1	17.0	89.00	327.8	154.8	485.1	458.1	26.94	18.009			
6,935.0	6,901.6	6,921.6	6,901.5	18.1	17.0	89.00	327.8	154.8	485.1	458.1	26.99	17.973			
7,000.0	6,966.6	6,986.6	6,966.5	18.1	17.0	89.00	327.8	154.8	485.1	458.0	27.09	17.907			
7,030.0	6,996.6	7,016.6	6,996.5	18.1	17.0	89.00	327.8	154.8	485.1	457.9	27.13	17.877			
7,100.0	7,066.6	7,086.6	7,066.5	18.2	17.1	89.00	327.8	154.8	485.1	457.8	27.24	17.807			
7,125.0	7,091.6	7,111.6	7,091.5	18.2	17.1	89.00	327.8	154.8	485.1	457.8	27.28	17.782			
7,200.0	7,166.6	7,186.6	7,166.5	18.2	17.1	89.00	327.8	154.8	485.1	457.7	27.39	17.708			
7,220.0	7,186.6	7,206.6	7,186.5	18.2	17.2	89.00	327.8	154.8	485.1	457.7	27.42	17.688			
7,300.0	7,266.6	7,286.6	7,266.5	18.3	17.2	89.00	327.8	154.8	485.1	457.5	27.55	17.610			
7,315.0	7,281.6	7,301.6	7,281.5	18.3	17.2	89.00	327.8	154.8	485.1	457.5	27.57	17.595			
7,400.0	7,366.6	7,386.6	7,366.5	18.3	17.3	89.00	327.8	154.8	485.1	457.4	27.70	17.512			
7,410.0	7,376.6	7,396.6	7,376.5	18.3	17.3	89.00	327.8	154.8	485.1	457.4	27.71	17.503			
7,500.0	7,466.6	7,486.6	7,466.5	18.4	17.3	89.00	327.8	154.8	485.1	457.2	27.85	17.416			
7,505.0	7,471.6	7,491.6	7,471.5	18.4	17.3	89.00	327.8	154.8	485.1	457.2	27.86	17.411			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS													Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
7,600.0	7,566.6	7,586.6	7,566.5	18.4	17.4	89.00	327.8	154.8	485.1	457.1	28.00	17.321		
7,695.0	7,661.6	7,681.6	7,661.5	18.5	17.5	89.00	327.8	154.8	485.1	456.9	28.15	17.232		
7,700.0	7,666.6	7,686.6	7,666.5	18.5	17.5	89.00	327.8	154.8	485.1	456.9	28.16	17.227		
7,790.0	7,756.6	7,776.6	7,756.5	18.6	17.5	89.00	327.8	154.8	485.1	456.8	28.30	17.143		
7,800.0	7,766.6	7,786.6	7,766.5	18.6	17.5	89.00	327.8	154.8	485.1	456.8	28.31	17.134		
7,885.0	7,851.6	7,871.6	7,851.5	18.6	17.6	89.00	327.8	154.8	485.1	456.6	28.44	17.055		
7,900.0	7,866.6	7,886.6	7,866.5	18.6	17.6	89.00	327.8	154.8	485.1	456.6	28.46	17.041		
7,980.0	7,946.6	7,966.6	7,946.5	18.7	17.6	89.00	327.8	154.8	485.1	456.5	28.59	16.968		
8,000.0	7,966.6	7,986.6	7,966.5	18.7	17.7	89.00	327.8	154.8	485.1	456.5	28.62	16.950		
8,075.0	8,041.6	8,061.6	8,041.5	18.7	17.7	89.00	327.8	154.8	485.1	456.3	28.73	16.882		
8,100.0	8,066.6	8,086.6	8,066.5	18.7	17.7	89.00	327.8	154.8	485.1	456.3	28.77	16.860		
8,170.0	8,136.6	8,156.6	8,136.5	18.8	17.8	89.00	327.8	154.8	485.1	456.2	28.88	16.797		
8,200.0	8,166.6	8,186.6	8,166.5	18.8	17.8	89.00	327.8	154.8	485.1	456.1	28.92	16.770		
8,265.0	8,231.6	8,251.6	8,231.5	18.8	17.8	89.00	327.8	154.8	485.1	456.0	29.02	16.713		
8,300.0	8,266.6	8,286.6	8,266.5	18.9	17.9	89.00	327.8	154.8	485.1	456.0	29.08	16.682		
8,360.0	8,326.6	8,346.6	8,326.5	18.9	17.9	89.00	327.8	154.8	485.1	455.9	29.17	16.629		
8,400.0	8,366.6	8,386.6	8,366.5	18.9	17.9	89.00	327.8	154.8	485.1	455.8	29.23	16.594		
8,432.4	8,399.0	8,419.1	8,398.9	18.9	17.9	89.00	327.8	154.8	485.1	455.8	29.26	16.579		
8,450.0	8,416.6	8,436.6	8,416.7	18.9	17.9	-91.50	327.7	154.8	485.1	455.8	29.27	16.575		
8,455.0	8,421.6	8,441.9	8,421.8	18.9	17.9	-91.51	327.7	154.8	485.1	455.8	29.27	16.574		
8,500.0	8,466.5	8,488.0	8,467.8	19.0	18.0	-91.60	324.8	154.8	485.1	455.8	29.28	16.567		
8,550.0	8,515.8	8,539.2	8,518.4	19.0	18.1	-91.68	317.3	154.7	485.1	455.8	29.29	16.562		
8,600.0	8,564.2	8,590.5	8,568.3	19.0	18.1	-91.75	305.2	154.6	485.1	455.8	29.30	16.559		
8,645.0	8,606.8	8,636.7	8,612.1	19.1	18.2	-91.81	290.6	154.5	485.2	455.9	29.30	16.558		
8,650.0	8,611.4	8,641.9	8,616.9	19.1	18.2	-91.81	288.8	154.5	485.2	455.9	29.30	16.558		
8,700.0	8,657.0	8,693.3	8,663.9	19.1	18.3	-91.85	268.0	154.3	485.2	455.9	29.30	16.557		
8,740.0	8,692.1	8,734.4	8,700.0	19.2	18.3	-91.88	248.4	154.1	485.2	455.9	29.31	16.556		
8,750.0	8,700.6	8,744.7	8,708.9	19.2	18.3	-91.88	243.1	154.1	485.2	455.9	29.31	16.555		
8,800.0	8,741.9	8,796.1	8,751.4	19.2	18.4	-91.90	214.3	153.9	485.2	455.9	29.31	16.552		
8,835.0	8,769.3	8,832.1	8,779.6	19.2	18.5	-91.90	191.8	153.7	485.2	455.9	29.32	16.548		
8,850.0	8,780.6	8,847.6	8,791.2	19.3	18.5	-91.90	181.7	153.6	485.2	455.9	29.32	16.546		
8,900.0	8,816.4	8,899.0	8,828.0	19.3	18.6	-91.88	145.7	153.3	485.2	455.8	29.34	16.534		
8,930.0	8,836.4	8,929.8	8,848.4	19.3	18.6	-91.86	122.6	153.1	485.2	455.8	29.36	16.524		
8,950.0	8,849.0	8,950.4	8,861.3	19.4	18.6	-91.85	106.6	153.0	485.2	455.8	29.37	16.517		
9,000.0	8,878.2	9,001.8	8,891.0	19.4	18.7	-91.80	64.7	152.6	485.2	455.7	29.42	16.492		
9,025.0	8,891.5	9,027.5	8,904.4	19.4	18.7	-91.78	42.8	152.4	485.1	455.7	29.45	16.475		
9,050.0	8,903.8	9,053.1	8,916.8	19.5	18.7	-91.75	20.3	152.3	485.1	455.7	29.48	16.458		
9,100.0	8,925.5	9,104.4	8,938.5	19.5	18.8	-91.67	-26.1	151.9	485.1	455.6	29.55	16.415		
9,120.0	8,933.1	9,124.9	8,946.0	19.5	18.8	-91.64	-45.2	151.7	485.1	455.5	29.59	16.394		
9,150.0	8,943.2	9,155.7	8,955.9	19.6	18.8	-91.59	-74.3	151.5	485.1	455.5	29.65	16.362		
9,200.0	8,956.8	9,206.8	8,969.0	19.6	18.9	-91.49	-123.7	151.1	485.1	455.3	29.76	16.299		
9,215.0	8,960.0	9,222.1	8,972.0	19.6	18.9	-91.46	-138.8	150.9	485.1	455.3	29.80	16.277		
9,250.0	8,966.1	9,257.9	8,977.6	19.6	18.9	-91.38	-174.1	150.7	485.1	455.2	29.89	16.226		
9,300.0	8,971.1	9,308.9	8,981.6	19.7	18.9	-91.26	-224.9	150.2	485.0	455.0	30.04	16.144		
9,310.0	8,971.6	9,319.1	8,981.9	19.7	18.9	-91.23	-235.1	150.2	485.0	455.0	30.08	16.127		
9,332.1	8,972.0	9,341.3	8,982.0	19.7	18.9	-91.19	-257.3	150.0	485.0	454.9	30.15	16.088		
9,400.0	8,972.0	9,409.2	8,982.0	19.8	18.9	-91.19	-325.2	149.4	485.0	454.6	30.40	15.954		
9,405.0	8,972.0	9,414.2	8,982.0	19.8	18.9	-91.19	-330.2	149.4	485.0	454.6	30.42	15.942		
9,500.0	8,972.1	9,509.2	8,982.1	19.9	19.0	-91.19	-425.2	148.6	485.0	454.2	30.85	15.721		
9,595.0	8,972.2	9,604.2	8,982.1	20.0	19.0	-91.19	-520.2	147.8	485.0	453.7	31.34	15.474		
9,600.0	8,972.2	9,609.2	8,982.1	20.0	19.0	-91.19	-525.2	147.8	485.0	453.6	31.37	15.460		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1											Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS											Offset Well Error:	3.0 usft		
Rule Assigned:														
Measured Reference	Vertical Depth (usft)	Measured Offset	Vertical Depth (usft)	Reference	Offset	Semi Major Axis	Highside Toolface (°)	Offset Wellbore Centre	Distance		Minimum Separation	Separation Factor	Warning	
Depth (usft)		Depth (usft)	Depth (usft)	(usft)	(usft)	(usft)	(°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)		
9,690.0	8,972.2	9,699.2	8,982.2	20.2	19.1	-91.19	-615.2	147.0	485.0	453.1	31.90	15.207		
9,700.0	8,972.2	9,709.2	8,982.2	20.2	19.1	-91.19	-625.2	146.9	485.0	453.1	31.96	15.177		
9,785.0	8,972.3	9,794.2	8,982.2	20.3	19.1	-91.19	-710.2	146.2	485.0	452.5	32.50	14.922		
9,800.0	8,972.3	9,809.2	8,982.2	20.3	19.1	-91.19	-725.2	146.1	485.0	452.4	32.60	14.877		
9,880.0	8,972.3	9,889.2	8,982.3	20.5	19.2	-91.19	-805.2	145.4	485.0	451.9	33.16	14.625		
9,900.0	8,972.3	9,909.2	8,982.3	20.5	19.2	-91.18	-825.2	145.3	485.0	451.7	33.31	14.562		
9,975.0	8,972.4	9,984.2	8,982.3	20.7	19.3	-91.18	-900.2	144.7	485.0	451.1	33.87	14.319		
10,000.0	8,972.4	10,009.2	8,982.3	20.7	19.3	-91.18	-925.2	144.4	485.0	451.0	34.06	14.238		
10,070.0	8,972.4	10,079.2	8,982.3	20.9	19.3	-91.18	-995.2	143.9	485.0	450.4	34.63	14.006		
10,100.0	8,972.5	10,109.2	8,982.4	20.9	19.4	-91.18	-1,025.2	143.6	485.0	450.1	34.87	13.908		
10,165.0	8,972.5	10,174.2	8,982.4	21.1	19.4	-91.18	-1,090.2	143.1	485.0	449.6	35.43	13.691		
10,200.0	8,972.5	10,209.2	8,982.4	21.2	19.5	-91.18	-1,125.2	142.8	485.0	449.3	35.73	13.575		
10,260.0	8,972.6	10,269.2	8,982.4	21.4	19.6	-91.18	-1,185.2	142.3	485.0	448.8	36.27	13.374		
10,300.0	8,972.6	10,309.2	8,982.5	21.5	19.6	-91.18	-1,225.2	142.0	485.0	448.4	36.63	13.242		
10,355.0	8,972.6	10,364.2	8,982.5	21.6	19.7	-91.18	-1,280.2	141.5	485.0	447.9	37.14	13.058		
10,400.0	8,972.6	10,409.2	8,982.5	21.8	19.8	-91.18	-1,325.2	141.1	485.0	447.5	37.57	12.911		
10,450.0	8,972.7	10,459.2	8,982.5	21.9	19.9	-91.18	-1,375.2	140.7	485.0	447.0	38.05	12.745		
10,500.0	8,972.7	10,509.2	8,982.6	22.1	20.0	-91.18	-1,425.2	140.3	485.0	446.5	38.54	12.584		
10,545.0	8,972.7	10,554.2	8,982.6	22.3	20.1	-91.17	-1,470.2	139.9	485.0	446.0	39.00	12.437		
10,600.0	8,972.8	10,609.2	8,982.6	22.4	20.2	-91.17	-1,525.2	139.5	485.0	445.5	39.56	12.262		
10,640.0	8,972.8	10,649.2	8,982.6	22.6	20.4	-91.17	-1,565.2	139.2	485.0	445.0	39.97	12.134		
10,700.0	8,972.8	10,709.2	8,982.6	22.8	20.5	-91.17	-1,625.2	138.7	485.0	444.4	40.60	11.946		
10,735.0	8,972.8	10,744.2	8,982.7	23.0	20.7	-91.17	-1,660.2	138.4	485.0	444.0	40.98	11.837		
10,800.0	8,972.9	10,809.2	8,982.7	23.2	20.9	-91.17	-1,725.2	137.8	485.0	443.3	41.67	11.638		
10,830.0	8,972.9	10,839.2	8,982.7	23.3	21.0	-91.17	-1,755.2	137.6	485.0	443.0	42.00	11.547		
10,900.0	8,972.9	10,909.2	8,982.7	23.6	21.3	-91.17	-1,825.2	137.0	485.0	442.2	42.77	11.339		
10,925.0	8,973.0	10,934.2	8,982.7	23.7	21.4	-91.17	-1,850.2	136.8	485.0	442.0	43.06	11.265		
11,000.0	8,973.0	11,009.2	8,982.8	24.1	21.7	-91.17	-1,925.2	136.2	485.0	441.1	43.90	11.048		
11,020.0	8,973.0	11,029.2	8,982.8	24.2	21.8	-91.17	-1,945.2	136.0	485.0	440.9	44.13	10.990		
11,100.0	8,973.1	11,109.2	8,982.8	24.5	22.2	-91.17	-2,025.2	135.4	485.0	440.0	45.05	10.766		
11,115.0	8,973.1	11,124.2	8,982.8	24.6	22.3	-91.17	-2,040.2	135.2	485.0	439.8	45.23	10.724		
11,200.0	8,973.1	11,209.2	8,982.9	25.0	22.7	-91.16	-2,125.2	134.5	485.0	438.8	46.22	10.493		
11,210.0	8,973.1	11,219.2	8,982.9	25.1	22.8	-91.16	-2,135.2	134.5	485.0	438.7	46.34	10.466		
11,300.0	8,973.2	11,309.2	8,982.9	25.5	23.3	-91.16	-2,225.2	133.7	485.0	437.6	47.42	10.229		
11,305.0	8,973.2	11,314.2	8,982.9	25.5	23.3	-91.16	-2,230.2	133.7	485.0	437.5	47.48	10.216		
11,400.0	8,973.2	11,409.2	8,983.0	26.0	23.8	-91.16	-2,325.2	132.9	485.0	436.4	48.63	9.974		
11,495.0	8,973.3	11,504.2	8,983.0	26.5	24.4	-91.16	-2,420.2	132.1	485.0	435.2	49.79	9.740		
11,500.0	8,973.3	11,509.2	8,983.0	26.6	24.4	-91.16	-2,425.2	132.1	485.0	435.2	49.86	9.728		
11,590.0	8,973.4	11,599.2	8,983.1	27.1	25.0	-91.16	-2,515.1	131.3	485.0	434.0	50.97	9.515		
11,600.0	8,973.4	11,609.2	8,983.1	27.1	25.0	-91.16	-2,525.1	131.2	485.0	433.9	51.10	9.492		
11,685.0	8,973.4	11,694.2	8,983.1	27.6	25.5	-91.16	-2,610.1	130.5	485.0	432.8	52.17	9.297		
11,700.0	8,973.4	11,709.2	8,983.1	27.7	25.6	-91.16	-2,625.1	130.4	485.0	432.7	52.36	9.263		
11,780.0	8,973.5	11,789.2	8,983.1	28.1	26.1	-91.16	-2,705.1	129.7	485.0	431.6	53.38	9.087		
11,800.0	8,973.5	11,809.2	8,983.2	28.2	26.3	-91.15	-2,725.1	129.6	485.0	431.4	53.63	9.043		
11,875.0	8,973.5	11,884.2	8,983.2	28.7	26.7	-91.15	-2,800.1	129.0	485.0	430.4	54.60	8.884		
11,900.0	8,973.5	11,909.2	8,983.2	28.8	26.9	-91.15	-2,825.1	128.8	485.0	430.1	54.92	8.832		
11,970.0	8,973.6	11,979.2	8,983.2	29.2	27.4	-91.15	-2,895.1	128.2	485.0	429.2	55.83	8.688		
12,000.0	8,973.6	12,009.2	8,983.3	29.4	27.5	-91.15	-2,925.1	127.9	485.0	428.8	56.22	8.628		
12,065.0	8,973.6	12,074.2	8,983.3	29.8	28.0	-91.15	-2,990.1	127.4	485.0	427.9	57.07	8.499		
12,100.0	8,973.7	12,109.2	8,983.3	30.0	28.2	-91.15	-3,025.1	127.1	485.0	427.5	57.53	8.431		
12,160.0	8,973.7	12,169.2	8,983.3	30.4	28.6	-91.15	-3,085.1	126.6	485.0	426.7	58.32	8.317		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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								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)				
12,200.0	8,973.7	12,209.2	8,983.3	30.6	28.9	-91.15	-3,125.1	126.3	485.0	426.2	58.85	8.242		
12,255.0	8,973.8	12,264.2	8,983.4	31.0	29.2	-91.15	-3,180.1	125.8	485.0	425.4	59.58	8.141		
12,300.0	8,973.8	12,309.2	8,983.4	31.2	29.5	-91.15	-3,225.1	125.4	485.0	424.8	60.18	8.060		
12,350.0	8,973.8	12,359.2	8,983.4	31.6	29.9	-91.15	-3,275.1	125.0	485.0	424.2	60.84	7.971		
12,400.0	8,973.8	12,409.2	8,983.4	31.9	30.2	-91.15	-3,325.1	124.6	485.0	423.5	61.51	7.885		
12,445.0	8,973.9	12,454.2	8,983.5	32.1	30.5	-91.14	-3,370.1	124.3	485.0	422.9	62.12	7.808		
12,500.0	8,973.9	12,509.2	8,983.5	32.5	30.9	-91.14	-3,425.1	123.8	485.0	422.2	62.86	7.716		
12,540.0	8,973.9	12,549.2	8,983.5	32.8	31.2	-91.14	-3,465.1	123.5	485.0	421.6	63.40	7.650		
12,600.0	8,974.0	12,609.2	8,983.5	33.1	31.6	-91.14	-3,525.1	123.0	485.0	420.8	64.22	7.553		
12,635.0	8,974.0	12,644.2	8,983.5	33.4	31.8	-91.14	-3,560.1	122.7	485.0	420.3	64.69	7.497		
12,700.0	8,974.0	12,709.2	8,983.6	33.8	32.3	-91.14	-3,625.1	122.1	485.0	419.4	65.58	7.396		
12,730.0	8,974.0	12,739.2	8,983.6	34.0	32.5	-91.14	-3,655.1	121.9	485.0	419.0	65.99	7.350		
12,800.0	8,974.1	12,809.2	8,983.6	34.4	32.9	-91.14	-3,725.1	121.3	485.0	418.1	66.95	7.244		
12,825.0	8,974.1	12,834.2	8,983.6	34.6	33.1	-91.14	-3,750.1	121.1	485.0	417.7	67.29	7.207		
12,900.0	8,974.1	12,909.2	8,983.7	35.1	33.6	-91.14	-3,825.1	120.5	485.0	416.7	68.33	7.098		
12,920.0	8,974.2	12,929.2	8,983.7	35.2	33.8	-91.14	-3,845.1	120.3	485.0	416.4	68.60	7.070		
13,000.0	8,974.2	13,009.2	8,983.7	35.8	34.3	-91.14	-3,925.1	119.7	485.0	415.3	69.71	6.957		
13,015.0	8,974.2	13,024.2	8,983.7	35.9	34.4	-91.14	-3,940.1	119.5	485.0	415.1	69.92	6.937		
13,100.0	8,974.3	13,109.2	8,983.8	36.4	35.0	-91.13	-4,025.1	118.8	485.0	413.9	71.10	6.822		
13,110.0	8,974.3	13,119.2	8,983.8	36.5	35.1	-91.13	-4,035.1	118.8	485.0	413.8	71.24	6.808		
13,200.0	8,974.3	13,209.2	8,983.8	37.1	35.7	-91.13	-4,125.1	118.0	485.0	412.5	72.49	6.690		
13,205.0	8,974.3	13,214.2	8,983.8	37.1	35.8	-91.13	-4,130.1	118.0	485.0	412.4	72.56	6.684		
13,300.0	8,974.4	13,309.2	8,983.9	37.8	36.4	-91.13	-4,225.1	117.2	485.0	411.1	73.89	6.564		
13,395.0	8,974.4	13,404.2	8,983.9	38.4	37.1	-91.13	-4,320.1	116.4	485.0	409.8	75.23	6.447		
13,400.0	8,974.4	13,409.2	8,983.9	38.4	37.2	-91.13	-4,325.1	116.4	485.0	409.7	75.30	6.441		
13,490.0	8,974.5	13,499.2	8,983.9	39.1	37.8	-91.13	-4,415.1	115.6	485.0	408.4	76.57	6.334		
13,500.0	8,974.5	13,509.2	8,984.0	39.1	37.9	-91.13	-4,425.1	115.5	485.0	408.3	76.71	6.323		
13,585.0	8,974.6	13,594.2	8,984.0	39.7	38.5	-91.13	-4,510.1	114.8	485.0	407.1	77.91	6.225		
13,600.0	8,974.6	13,609.2	8,984.0	39.8	38.6	-91.13	-4,525.1	114.7	485.0	406.9	78.12	6.208		
13,680.0	8,974.6	13,689.2	8,984.0	40.4	39.2	-91.12	-4,605.1	114.0	485.0	405.8	79.26	6.119		
13,700.0	8,974.6	13,709.2	8,984.0	40.5	39.3	-91.12	-4,625.1	113.9	485.0	405.5	79.54	6.098		
13,775.0	8,974.7	13,784.2	8,984.1	41.0	39.8	-91.12	-4,700.1	113.3	485.0	404.4	80.61	6.017		
13,800.0	8,974.7	13,809.2	8,984.1	41.2	40.0	-91.12	-4,725.1	113.1	485.0	404.0	80.96	5.991		
13,870.0	8,974.7	13,879.2	8,984.1	41.7	40.5	-91.12	-4,795.1	112.5	485.0	403.0	81.96	5.918		
13,900.0	8,974.7	13,909.2	8,984.1	41.9	40.7	-91.12	-4,825.1	112.2	485.0	402.6	82.39	5.887		
13,965.0	8,974.8	13,974.2	8,984.2	42.3	41.2	-91.12	-4,890.1	111.7	485.0	401.7	83.32	5.821		
14,000.0	8,974.8	14,009.2	8,984.2	42.6	41.5	-91.12	-4,925.1	111.4	485.0	401.2	83.82	5.786		
14,060.0	8,974.8	14,069.2	8,984.2	43.0	41.9	-91.12	-4,985.1	110.9	485.0	400.3	84.68	5.728		
14,100.0	8,974.9	14,109.2	8,984.2	43.3	42.2	-91.12	-5,025.1	110.6	485.0	399.8	85.25	5.689		
14,155.0	8,974.9	14,164.2	8,984.3	43.7	42.6	-91.12	-5,080.1	110.1	485.0	399.0	86.04	5.637		
14,200.0	8,974.9	14,209.2	8,984.3	44.0	42.9	-91.12	-5,125.1	109.8	485.0	398.3	86.69	5.595		
14,250.0	8,975.0	14,259.2	8,984.3	44.3	43.3	-91.12	-5,175.1	109.3	485.0	397.6	87.41	5.549		
14,300.0	8,975.0	14,309.2	8,984.3	44.7	43.6	-91.11	-5,225.1	108.9	485.0	396.9	88.13	5.504		
14,345.0	8,975.0	14,354.2	8,984.3	45.0	44.0	-91.11	-5,270.1	108.6	485.0	396.2	88.78	5.463		
14,400.0	8,975.0	14,409.2	8,984.4	45.4	44.4	-91.11	-5,325.1	108.1	485.0	395.4	89.57	5.415		
14,440.0	8,975.1	14,449.2	8,984.4	45.7	44.7	-91.11	-5,365.0	107.8	485.0	394.9	90.15	5.380		
14,500.0	8,975.1	14,509.2	8,984.4	46.1	45.1	-91.11	-5,425.0	107.3	485.0	394.0	91.01	5.329		
14,535.0	8,975.1	14,544.2	8,984.4	46.4	45.3	-91.11	-5,460.0	107.0	485.0	393.5	91.52	5.299		
14,600.0	8,975.2	14,609.2	8,984.5	46.8	45.8	-91.11	-5,525.0	106.5	485.0	392.5	92.46	5.245		
14,630.0	8,975.2	14,639.2	8,984.5	47.0	46.0	-91.11	-5,555.0	106.2	485.0	392.1	92.90	5.221		
14,700.0	8,975.2	14,709.2	8,984.5	47.5	46.5	-91.11	-5,625.0	105.6	485.0	391.1	93.91	5.164		

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

ConocoPhillips
 Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
14,725.0	8,975.2	14,734.2	8,984.5	47.7	46.7	-91.11	-5,650.0	105.4	485.0	390.7	94.28	5.145			
14,800.0	8,975.3	14,809.2	8,984.6	48.3	47.3	-91.11	-5,725.0	104.8	485.0	389.6	95.37	5.086			
14,820.0	8,975.3	14,829.2	8,984.6	48.4	47.4	-91.11	-5,745.0	104.6	485.0	389.4	95.66	5.070			
14,900.0	8,975.3	14,909.2	8,984.6	49.0	48.0	-91.11	-5,825.0	104.0	485.0	388.2	96.82	5.009			
14,915.0	8,975.4	14,924.2	8,984.6	49.1	48.1	-91.11	-5,840.0	103.8	485.0	388.0	97.04	4.998			
15,000.0	8,975.4	15,009.2	8,984.7	49.7	48.7	-91.10	-5,925.0	103.1	485.0	386.7	98.28	4.935			
15,010.0	8,975.4	15,019.2	8,984.7	49.8	48.8	-91.10	-5,935.0	103.1	485.0	386.6	98.42	4.928			
15,100.0	8,975.5	15,109.2	8,984.7	50.4	49.5	-91.10	-6,025.0	102.3	485.0	385.3	99.74	4.863			
15,105.0	8,975.5	15,114.2	8,984.7	50.4	49.5	-91.10	-6,030.0	102.3	485.0	385.2	99.81	4.859			
15,200.0	8,975.5	15,209.2	8,984.7	51.1	50.2	-91.10	-6,125.0	101.5	485.0	383.8	101.20	4.793			
15,295.0	8,975.6	15,304.2	8,984.8	51.8	50.9	-91.10	-6,220.0	100.7	485.0	382.4	102.59	4.728			
15,300.0	8,975.6	15,309.2	8,984.8	51.8	51.0	-91.10	-6,225.0	100.7	485.0	382.3	102.66	4.724			
15,390.0	8,975.6	15,399.2	8,984.8	52.5	51.6	-91.10	-6,315.0	99.9	485.0	381.0	103.98	4.664			
15,400.0	8,975.6	15,409.2	8,984.8	52.6	51.7	-91.10	-6,325.0	99.8	485.0	380.9	104.13	4.658			
15,485.0	8,975.7	15,494.2	8,984.9	53.2	52.3	-91.10	-6,410.0	99.1	485.0	379.6	105.37	4.603			
15,500.0	8,975.7	15,509.2	8,984.9	53.3	52.4	-91.10	-6,425.0	99.0	485.0	379.4	105.59	4.593			
15,580.0	8,975.8	15,589.2	8,984.9	53.9	53.0	-91.09	-6,505.0	98.4	485.0	378.2	106.77	4.543			
15,600.0	8,975.8	15,609.2	8,984.9	54.0	53.2	-91.09	-6,525.0	98.2	485.0	377.9	107.06	4.530			
15,675.0	8,975.8	15,684.2	8,985.0	54.6	53.7	-91.09	-6,600.0	97.6	485.0	376.8	108.16	4.484			
15,700.0	8,975.8	15,709.2	8,985.0	54.7	53.9	-91.09	-6,625.0	97.4	485.0	376.5	108.53	4.469			
15,770.0	8,975.9	15,779.2	8,985.0	55.3	54.4	-91.09	-6,695.0	96.8	485.0	375.4	109.56	4.427			
15,800.0	8,975.9	15,809.2	8,985.0	55.5	54.7	-91.09	-6,725.0	96.5	485.0	375.0	110.00	4.409			
15,865.0	8,975.9	15,874.2	8,985.1	55.9	55.1	-91.09	-6,790.0	96.0	485.0	374.0	110.96	4.371			
15,900.0	8,975.9	15,909.2	8,985.1	56.2	55.4	-91.09	-6,825.0	95.7	485.0	373.5	111.48	4.351			
15,960.0	8,976.0	15,969.2	8,985.1	56.6	55.8	-91.09	-6,885.0	95.2	485.0	372.6	112.36	4.316			
16,000.0	8,976.0	16,009.2	8,985.1	56.9	56.1	-91.09	-6,925.0	94.9	485.0	372.1	112.95	4.294			
16,055.0	8,976.0	16,064.2	8,985.1	57.3	56.5	-91.09	-6,980.0	94.4	485.0	371.2	113.76	4.263			
16,100.0	8,976.1	16,109.2	8,985.2	57.7	56.9	-91.09	-7,025.0	94.1	485.0	370.6	114.43	4.238			
16,150.0	8,976.1	16,159.2	8,985.2	58.0	57.2	-91.09	-7,075.0	93.6	485.0	369.8	115.17	4.211			
16,200.0	8,976.1	16,209.2	8,985.2	58.4	57.6	-91.08	-7,125.0	93.2	485.0	369.1	115.91	4.184			
16,245.0	8,976.2	16,254.2	8,985.2	58.7	58.0	-91.08	-7,170.0	92.9	485.0	368.4	116.57	4.161			
16,300.0	8,976.2	16,309.2	8,985.3	59.1	58.4	-91.08	-7,225.0	92.4	485.0	367.6	117.39	4.132			
16,340.0	8,976.2	16,349.2	8,985.3	59.4	58.7	-91.08	-7,265.0	92.1	485.0	367.0	117.98	4.111			
16,400.0	8,976.3	16,409.2	8,985.3	59.9	59.1	-91.08	-7,325.0	91.6	485.0	366.1	118.87	4.080			
16,435.0	8,976.3	16,444.2	8,985.3	60.1	59.4	-91.08	-7,360.0	91.3	485.0	365.6	119.38	4.063			
16,500.0	8,976.3	16,509.2	8,985.4	60.6	59.9	-91.08	-7,425.0	90.8	485.0	364.7	120.35	4.030			
16,530.0	8,976.3	16,539.2	8,985.4	60.8	60.1	-91.08	-7,455.0	90.5	485.0	364.2	120.79	4.015			
16,600.0	8,976.4	16,609.2	8,985.4	61.3	60.6	-91.08	-7,525.0	89.9	485.0	363.2	121.83	3.981			
16,625.0	8,976.4	16,634.2	8,985.4	61.5	60.8	-91.08	-7,550.0	89.7	485.0	362.8	122.20	3.969			
16,700.0	8,976.4	16,709.2	8,985.4	62.1	61.3	-91.08	-7,625.0	89.1	485.0	361.7	123.31	3.933			
16,720.0	8,976.4	16,729.2	8,985.5	62.2	61.5	-91.08	-7,645.0	88.9	485.0	361.4	123.61	3.924			
16,800.0	8,976.5	16,809.2	8,985.5	62.8	62.1	-91.08	-7,725.0	88.3	485.0	360.2	124.80	3.886			
16,815.0	8,976.5	16,824.2	8,985.5	62.9	62.2	-91.08	-7,740.0	88.2	485.0	360.0	125.02	3.879			
16,900.0	8,976.6	16,909.2	8,985.5	63.5	62.8	-91.07	-7,825.0	87.5	485.0	358.7	126.28	3.841			
16,910.0	8,976.6	16,919.2	8,985.5	63.6	62.9	-91.07	-7,835.0	87.4	485.0	358.6	126.43	3.836			
17,000.0	8,976.6	17,009.2	8,985.6	64.3	63.6	-91.07	-7,925.0	86.6	485.0	357.2	127.77	3.796			
17,005.0	8,976.6	17,014.2	8,985.6	64.3	63.6	-91.07	-7,930.0	86.6	485.0	357.2	127.84	3.794			
17,100.0	8,976.7	17,109.2	8,985.6	65.0	64.3	-91.07	-8,025.0	85.8	485.0	355.7	129.26	3.752			
17,195.0	8,976.7	17,204.2	8,985.7	65.7	65.0	-91.07	-8,120.0	85.0	485.0	354.3	130.67	3.712			
17,200.0	8,976.7	17,209.2	8,985.7	65.7	65.1	-91.07	-8,125.0	85.0	485.0	354.3	130.75	3.710			
17,290.0	8,976.8	17,299.2	8,985.7	66.4	65.8	-91.07	-8,215.0	84.2	485.0	352.9	132.09	3.672			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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		Highside Toolface		Offset Wellbore Centre		Distance		Minimum Separation	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)			+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	(usft)			
17,300.0	8,976.8	17,309.2	8,985.7	66.5	65.8	-91.07		-8,225.0	84.1	485.0	352.8	132.24	3.668		
17,385.0	8,976.8	17,394.2	8,985.8	67.1	66.5	-91.07		-8,309.9	83.4	485.0	351.5	133.50	3.633		
17,400.0	8,976.9	17,409.2	8,985.8	67.2	66.6	-91.07		-8,324.9	83.3	485.0	351.3	133.73	3.627		
17,480.0	8,976.9	17,489.2	8,985.8	67.8	67.2	-91.06		-8,404.9	82.7	485.0	350.1	134.92	3.595		
17,500.0	8,976.9	17,509.2	8,985.8	68.0	67.3	-91.06		-8,424.9	82.5	485.0	349.8	135.22	3.587		
17,575.0	8,977.0	17,584.2	8,985.9	68.5	67.9	-91.06		-8,499.9	81.9	485.0	348.7	136.34	3.557		
17,600.0	8,977.0	17,609.2	8,985.9	68.7	68.1	-91.06		-8,524.9	81.7	485.0	348.3	136.71	3.548		
17,670.0	8,977.0	17,679.2	8,985.9	69.2	68.6	-91.06		-8,594.9	81.1	485.0	347.2	137.75	3.521		
17,700.0	8,977.0	17,709.2	8,985.9	69.5	68.8	-91.06		-8,624.9	80.8	485.0	346.8	138.20	3.509		
17,765.0	8,977.1	17,774.2	8,985.9	69.9	69.3	-91.06		-8,689.9	80.3	485.0	345.8	139.17	3.485		
17,800.0	8,977.1	17,809.2	8,986.0	70.2	69.6	-91.06		-8,724.9	80.0	485.0	345.3	139.70	3.472		
17,860.0	8,977.1	17,869.2	8,986.0	70.6	70.0	-91.06		-8,784.9	79.5	485.0	344.4	140.59	3.450		
17,900.0	8,977.2	17,909.2	8,986.0	70.9	70.3	-91.06		-8,824.9	79.2	485.0	343.8	141.19	3.435		
17,955.0	8,977.2	17,964.2	8,986.0	71.3	70.7	-91.06		-8,879.9	78.7	485.0	343.0	142.01	3.415		
18,000.0	8,977.2	18,009.2	8,986.1	71.7	71.1	-91.06		-8,924.9	78.4	485.0	342.3	142.68	3.399		
18,050.0	8,977.2	18,059.2	8,986.1	72.1	71.4	-91.06		-8,974.9	78.0	485.0	341.6	143.43	3.381		
18,100.0	8,977.3	18,109.2	8,986.1	72.4	71.8	-91.05		-9,024.9	77.5	485.0	340.8	144.18	3.364		
18,145.0	8,977.3	18,154.2	8,986.1	72.8	72.2	-91.05		-9,069.9	77.2	485.0	340.1	144.85	3.348		
18,200.0	8,977.3	18,209.2	8,986.1	73.2	72.6	-91.05		-9,124.9	76.7	485.0	339.3	145.68	3.329		
18,240.0	8,977.4	18,249.2	8,986.2	73.5	72.9	-91.05		-9,164.9	76.4	485.0	338.7	146.28	3.316		
18,300.0	8,977.4	18,309.2	8,986.2	73.9	73.3	-91.05		-9,224.9	75.9	485.0	337.8	147.17	3.295		
18,335.0	8,977.4	18,344.2	8,986.2	74.2	73.6	-91.05		-9,259.9	75.6	485.0	337.3	147.70	3.284		
18,400.0	8,977.5	18,409.2	8,986.2	74.7	74.1	-91.05		-9,324.9	75.1	485.0	336.3	148.67	3.262		
18,430.0	8,977.5	18,439.2	8,986.3	74.9	74.3	-91.05		-9,354.9	74.8	485.0	335.9	149.12	3.252		
18,500.0	8,977.5	18,509.2	8,986.3	75.4	74.8	-91.05		-9,424.9	74.2	485.0	334.8	150.17	3.230		
18,525.0	8,977.5	18,534.2	8,986.3	75.6	75.0	-91.05		-9,449.9	74.0	485.0	334.5	150.54	3.222		
18,600.0	8,977.6	18,609.2	8,986.3	76.1	75.6	-91.05		-9,524.9	73.4	485.0	333.3	151.67	3.198		
18,620.0	8,977.6	18,629.2	8,986.3	76.3	75.7	-91.05		-9,544.9	73.2	485.0	333.0	151.97	3.191		
18,700.0	8,977.6	18,709.2	8,986.4	76.9	76.3	-91.05		-9,624.9	72.6	485.0	331.8	153.17	3.166		
18,715.0	8,977.6	18,724.2	8,986.4	77.0	76.4	-91.04		-9,639.9	72.5	485.0	331.6	153.39	3.162		
18,800.0	8,977.7	18,809.2	8,986.4	77.6	77.1	-91.04		-9,724.9	71.8	485.0	330.3	154.67	3.136		
18,810.0	8,977.7	18,819.2	8,986.4	77.7	77.2	-91.04		-9,734.9	71.7	485.0	330.2	154.82	3.133		
18,900.0	8,977.8	18,909.2	8,986.5	78.4	77.8	-91.04		-9,824.9	70.9	485.0	328.8	156.17	3.106		
18,905.0	8,977.8	18,914.2	8,986.5	78.4	77.9	-91.04		-9,829.9	70.9	485.0	328.8	156.24	3.104		
19,000.0	8,977.8	19,009.2	8,986.5	79.1	78.6	-91.04		-9,924.9	70.1	485.0	327.3	157.67	3.076		
19,095.0	8,977.9	19,104.2	8,986.6	79.8	79.3	-91.04		-10,019.9	69.3	485.0	325.9	159.10	3.048		
19,100.0	8,977.9	19,109.2	8,986.6	79.9	79.3	-91.04		-10,024.9	69.3	485.0	325.8	159.17	3.047		
19,190.0	8,977.9	19,199.2	8,986.6	80.6	80.0	-91.04		-10,114.9	68.5	485.0	324.5	160.52	3.021		
19,200.0	8,977.9	19,209.2	8,986.6	80.6	80.1	-91.04		-10,124.9	68.5	485.0	324.3	160.67	3.019		
19,285.0	8,978.0	19,294.2	8,986.7	81.3	80.7	-91.04		-10,209.9	67.7	485.0	323.0	161.95	2.995		
19,300.0	8,978.0	19,309.2	8,986.7	81.4	80.9	-91.04		-10,224.9	67.6	485.0	322.8	162.18	2.991		
19,380.0	8,978.0	19,389.2	8,986.7	82.0	81.5	-91.03		-10,304.9	67.0	485.0	321.6	163.38	2.969		
19,400.0	8,978.1	19,409.2	8,986.7	82.1	81.6	-91.03		-10,324.9	66.8	485.0	321.3	163.68	2.963		
19,475.0	8,978.1	19,484.2	8,986.7	82.7	82.2	-91.03		-10,399.9	66.2	485.0	320.2	164.81	2.943		
19,500.0	8,978.1	19,509.2	8,986.8	82.9	82.4	-91.03		-10,424.9	66.0	485.0	319.8	165.18	2.936		
19,570.0	8,978.2	19,579.2	8,986.8	83.4	82.9	-91.03		-10,494.9	65.4	485.0	318.8	166.24	2.918		
19,600.0	8,978.2	19,609.2	8,986.8	83.6	83.1	-91.03		-10,524.9	65.1	485.0	318.3	166.69	2.910		
19,665.0	8,978.2	19,674.2	8,986.8	84.1	83.6	-91.03		-10,589.9	64.6	485.0	317.3	167.67	2.893		
19,700.0	8,978.2	19,709.2	8,986.8	84.4	83.9	-91.03		-10,624.9	64.3	485.0	316.8	168.19	2.884		
19,760.0	8,978.3	19,769.2	8,986.9	84.8	84.3	-91.03		-10,684.9	63.8	485.0	315.9	169.09	2.868		
19,800.0	8,978.3	19,809.2	8,986.9	85.1	84.6	-91.03		-10,724.9	63.5	485.0	315.3	169.70	2.858		

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

ConocoPhillips
Anticollision Report

Company: DELAWARE BASIN WEST
Project: ATLAS PROSPECT (NM-E)
Reference Site: FLAMING SNAIL FED COM PROJECT
Site Error: 0.0 usft
Reference Well: FLAMING SNAIL FEDERAL COM #703H
Well Error: 3.0 usft
Reference Wellbore: OWB
Reference Design: PWP1
Local Co-ordinate Reference: Well FLAMING SNAIL FEDERAL COM #703H
TVD Reference: *RKB 32ft + GL 3129.3ft @ 3161.3usft
MD Reference: *RKB 32ft + GL 3129.3ft @ 3161.3usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDT 15 Central Prod
Offset TVD Reference: Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #702H - OWB - PWP1
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8429-r.5 MWD+IFR1+MS
Table with columns: 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. Includes Offset Site Error: 0.0 usft and Offset Well Error: 3.0 usft.

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
22,400.0	8,979.9	22,409.2	8,988.1	104.7	104.3	-90.99	-13,324.8	42.0	485.0	276.1	208.94	2.321		
22,420.0	8,979.9	22,429.2	8,988.1	104.8	104.4	-90.99	-13,344.8	41.9	485.0	275.8	209.24	2.318		
22,500.0	8,979.9	22,509.2	8,988.2	105.4	105.1	-90.98	-13,424.8	41.2	485.0	274.5	210.45	2.305		
22,515.0	8,979.9	22,524.2	8,988.2	105.6	105.2	-90.98	-13,439.8	41.1	485.0	274.3	210.68	2.302		
22,600.0	8,980.0	22,609.2	8,988.2	106.2	105.8	-90.98	-13,524.8	40.4	485.0	273.0	211.97	2.288		
22,610.0	8,980.0	22,619.2	8,988.2	106.3	105.9	-90.98	-13,534.8	40.3	485.0	272.9	212.12	2.286		
22,700.0	8,980.0	22,709.2	8,988.2	106.9	106.6	-90.98	-13,624.8	39.5	485.0	271.5	213.48	2.272		
22,705.0	8,980.0	22,714.2	8,988.2	107.0	106.6	-90.98	-13,629.8	39.5	485.0	271.4	213.56	2.271		
22,800.0	8,980.1	22,809.2	8,988.3	107.7	107.3	-90.98	-13,724.8	38.7	485.0	270.0	215.00	2.256		
22,895.0	8,980.2	22,904.2	8,988.3	108.4	108.0	-90.98	-13,819.8	37.9	485.0	268.6	216.43	2.241		
22,900.0	8,980.2	22,909.2	8,988.3	108.5	108.1	-90.98	-13,824.8	37.9	485.0	268.5	216.51	2.240		
22,990.0	8,980.2	22,999.2	8,988.4	109.1	108.8	-90.98	-13,914.8	37.1	485.0	267.1	217.87	2.226		
23,000.0	8,980.2	23,009.2	8,988.4	109.2	108.8	-90.98	-13,924.8	37.1	485.0	267.0	218.02	2.225		
23,085.0	8,980.3	23,094.2	8,988.4	109.9	109.5	-90.98	-14,009.8	36.4	485.0	265.7	219.31	2.211		
23,100.0	8,980.3	23,109.2	8,988.4	110.0	109.6	-90.98	-14,024.8	36.2	485.0	265.5	219.54	2.209		
23,180.0	8,980.3	23,189.2	8,988.5	110.6	110.2	-90.97	-14,104.7	35.6	485.0	264.2	220.75	2.197		
23,200.0	8,980.3	23,209.2	8,988.5	110.7	110.4	-90.97	-14,124.7	35.4	485.0	263.9	221.05	2.194		
23,275.0	8,980.4	23,284.2	8,988.5	111.3	110.9	-90.97	-14,199.7	34.8	485.0	262.8	222.19	2.183		
23,300.0	8,980.4	23,309.2	8,988.5	111.5	111.1	-90.97	-14,224.7	34.6	485.0	262.4	222.57	2.179		
23,370.0	8,980.4	23,379.2	8,988.6	112.0	111.6	-90.97	-14,294.7	34.0	485.0	261.4	223.63	2.169		
23,400.0	8,980.5	23,409.2	8,988.6	112.2	111.9	-90.97	-14,324.7	33.8	485.0	260.9	224.08	2.164		
23,465.0	8,980.5	23,474.2	8,988.6	112.7	112.4	-90.97	-14,389.7	33.2	485.0	259.9	225.07	2.155		
23,500.0	8,980.5	23,509.2	8,988.6	113.0	112.6	-90.97	-14,424.7	32.9	485.0	259.4	225.60	2.150		
23,560.0	8,980.6	23,569.2	8,988.6	113.4	113.1	-90.97	-14,484.7	32.4	485.0	258.5	226.51	2.141		
23,600.0	8,980.6	23,609.2	8,988.7	113.7	113.4	-90.97	-14,524.7	32.1	485.0	257.9	227.11	2.135		
23,655.0	8,980.6	23,664.2	8,988.7	114.2	113.8	-90.97	-14,579.7	31.6	485.0	257.0	227.95	2.128		
23,700.0	8,980.6	23,709.2	8,988.7	114.5	114.2	-90.97	-14,624.7	31.3	485.0	256.4	228.63	2.121		
23,750.0	8,980.7	23,759.2	8,988.7	114.9	114.5	-90.96	-14,674.7	30.9	485.0	255.6	229.39	2.114		
23,800.0	8,980.7	23,809.2	8,988.8	115.3	114.9	-90.96	-14,724.7	30.5	485.0	254.8	230.14	2.107		
23,845.0	8,980.7	23,854.2	8,988.8	115.6	115.3	-90.96	-14,769.7	30.1	485.0	254.2	230.83	2.101		
23,900.0	8,980.8	23,909.2	8,988.8	116.0	115.7	-90.96	-14,824.7	29.6	485.0	253.3	231.66	2.094		
23,940.0	8,980.8	23,949.2	8,988.8	116.3	116.0	-90.96	-14,864.7	29.3	485.0	252.7	232.27	2.088		
24,000.0	8,980.8	24,009.2	8,988.9	116.8	116.4	-90.96	-14,924.7	28.8	485.0	251.8	233.17	2.080		
24,035.0	8,980.8	24,044.2	8,988.9	117.0	116.7	-90.96	-14,959.7	28.5	485.0	251.3	233.71	2.075		
24,100.0	8,980.9	24,109.2	8,988.9	117.5	117.2	-90.96	-15,024.7	28.0	485.0	250.3	234.69	2.067		
24,130.0	8,980.9	24,139.2	8,988.9	117.8	117.4	-90.96	-15,054.7	27.7	485.0	249.8	235.15	2.063		
24,168.5	8,980.9	24,177.7	8,988.9	118.0	117.7	-90.96	-15,093.2	27.4	485.0	249.3	235.73	2.057		
24,200.0	8,980.9	24,209.2	8,988.9	118.3	117.9	-90.96	-15,124.7	27.1	485.0	248.8	236.20	2.053		
24,225.0	8,981.0	24,234.2	8,989.0	118.5	118.1	-90.96	-15,149.7	26.9	485.0	248.4	236.58	2.050		
24,298.5	8,981.0	24,307.7	8,989.0	119.0	118.7	-90.96	-15,223.2	26.3	485.0	247.3	237.70	2.040 SF		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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													Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
								+N/-S (usft)	+E/-W (usft)							
0.0	0.0	0.0	0.0	3.0	3.0		-90.95	-0.5	-30.0	30.0						
95.0	95.0	95.0	95.0	3.0	3.0		-90.95	-0.5	-30.0	30.0	24.0	6.04	4.971			
100.0	100.0	100.0	100.0	3.0	3.0		-90.95	-0.5	-30.0	30.0	24.0	6.04	4.967			
190.0	190.0	190.0	190.0	3.1	3.1		-90.95	-0.5	-30.0	30.0	23.8	6.25	4.799			
200.0	200.0	200.0	200.0	3.1	3.1		-90.95	-0.5	-30.0	30.0	23.7	6.29	4.773			
285.0	285.0	285.0	285.0	3.3	3.3		-90.95	-0.5	-30.0	30.0	23.5	6.48	4.628			
300.0	300.0	300.0	300.0	3.3	3.3		-90.95	-0.5	-30.0	30.0	23.5	6.52	4.600			
380.0	380.0	380.0	380.0	3.4	3.4		-90.95	-0.5	-30.0	30.0	23.3	6.70	4.477			
400.0	400.0	400.0	400.0	3.4	3.4		-90.95	-0.5	-30.0	30.0	23.3	6.75	4.445			
475.0	475.0	475.0	475.0	3.5	3.5		-90.95	-0.5	-30.0	30.0	23.1	6.91	4.340			
500.0	500.0	500.0	500.0	3.5	3.5		-90.95	-0.5	-30.0	30.0	23.0	6.97	4.304			
570.0	570.0	570.0	570.0	3.6	3.6		-90.95	-0.5	-30.0	30.0	22.9	7.12	4.215			
600.0	600.0	600.0	600.0	3.6	3.6		-90.95	-0.5	-30.0	30.0	22.8	7.18	4.176			
665.0	665.0	665.0	665.0	3.7	3.7		-90.95	-0.5	-30.0	30.0	22.7	7.32	4.100			
700.0	700.0	700.0	700.0	3.8	3.8		-90.95	-0.5	-30.0	30.0	22.6	7.39	4.059			
760.0	760.0	760.0	760.0	3.8	3.8		-90.95	-0.5	-30.0	30.0	22.5	7.51	3.994			
800.0	800.0	800.0	800.0	3.9	3.9		-90.95	-0.5	-30.0	30.0	22.4	7.59	3.951			
855.0	855.0	855.0	855.0	4.0	4.0		-90.95	-0.5	-30.0	30.0	22.3	7.70	3.896			
900.0	900.0	900.0	900.0	4.0	4.0		-90.95	-0.5	-30.0	30.0	22.2	7.79	3.851			
950.0	950.0	950.0	950.0	4.1	4.1		-90.95	-0.5	-30.0	30.0	22.1	7.89	3.805			
1,000.0	1,000.0	1,000.0	1,000.0	4.1	4.1		-90.95	-0.5	-30.0	30.0	22.0	7.98	3.759			
1,045.0	1,045.0	1,045.0	1,045.0	4.2	4.2		-90.95	-0.5	-30.0	30.0	21.9	8.07	3.720			
1,100.0	1,100.0	1,100.0	1,100.0	4.2	4.2		-90.95	-0.5	-30.0	30.0	21.8	8.17	3.673			
1,140.0	1,140.0	1,140.0	1,140.0	4.3	4.3		-90.95	-0.5	-30.0	30.0	21.8	8.24	3.640			
1,200.0	1,200.0	1,200.0	1,200.0	4.4	4.4		-90.95	-0.5	-30.0	30.0	21.7	8.35	3.592			
1,235.0	1,235.0	1,235.0	1,235.0	4.4	4.4		-90.95	-0.5	-30.0	30.0	21.6	8.41	3.566			
1,300.0	1,300.0	1,300.0	1,300.0	4.5	4.5		-90.95	-0.5	-30.0	30.0	21.5	8.53	3.517			
1,330.0	1,330.0	1,330.0	1,330.0	4.5	4.5		-90.95	-0.5	-30.0	30.0	21.4	8.58	3.495			
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6		-90.95	-0.5	-30.0	30.0	21.3	8.71	3.446			
1,425.0	1,425.0	1,425.0	1,425.0	4.6	4.6		-90.95	-0.5	-30.0	30.0	21.3	8.75	3.429			
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7		-90.95	-0.5	-30.0	30.0	21.1	8.88	3.379 CC			
1,520.0	1,520.0	1,519.8	1,519.8	4.7	4.7		-45.04	-0.5	-30.1	30.0	21.1	8.94	3.357 ES			
1,600.0	1,600.0	1,599.0	1,599.0	4.9	4.8		-46.05	0.1	-31.6	30.4	21.2	9.19	3.306			
1,615.0	1,615.0	1,613.9	1,613.9	4.9	4.9		-46.39	0.3	-32.1	30.5	21.2	9.25	3.295			
1,700.0	1,699.8	1,698.0	1,697.9	5.1	5.0		-49.08	2.0	-36.4	31.5	21.9	9.64	3.272			
1,710.0	1,709.8	1,707.9	1,707.8	5.1	5.1		-49.47	2.3	-37.0	31.7	22.0	9.68	3.274			
1,800.0	1,799.5	1,797.0	1,796.5	5.4	5.3		-53.62	5.2	-44.3	33.6	23.6	10.06	3.343			
1,805.0	1,804.4	1,802.0	1,801.4	5.4	5.3		-53.88	5.4	-44.8	33.8	23.7	10.08	3.350			
1,900.0	1,898.7	1,895.9	1,894.6	5.7	5.6		-59.04	9.6	-55.4	36.9	26.5	10.46	3.529			
1,950.1	1,948.2	1,945.4	1,943.6	5.8	5.7		-61.87	12.2	-62.1	39.0	28.4	10.59	3.685			
1,995.0	1,992.6	1,989.7	1,987.4	5.8	5.9		-64.00	14.9	-68.8	41.4	30.7	10.72	3.862			
2,000.0	1,997.5	1,994.7	1,992.2	5.8	5.9		-64.18	15.2	-69.6	41.7	31.0	10.73	3.885			
2,090.0	2,086.4	2,083.4	2,079.4	6.1	6.2		-65.84	21.3	-85.0	48.2	37.1	11.08	4.345			
2,100.0	2,096.3	2,093.3	2,089.0	6.1	6.2		-65.86	22.1	-86.9	49.0	37.9	11.12	4.405			
2,185.0	2,180.3	2,176.7	2,170.5	6.3	6.5		-65.05	28.8	-104.0	57.2	45.7	11.51	4.969			
2,200.0	2,195.1	2,191.4	2,184.7	6.4	6.6		-64.77	30.1	-107.2	58.8	47.2	11.58	5.080			
2,280.0	2,274.1	2,270.8	2,261.7	6.6	6.8		-63.21	37.2	-125.0	67.9	55.9	11.98	5.667			
2,300.0	2,293.8	2,290.6	2,281.0	6.7	6.9		-62.88	38.9	-129.5	70.1	58.1	12.08	5.808			
2,375.0	2,367.9	2,365.1	2,353.3	6.9	7.1		-61.82	45.6	-146.3	78.7	66.2	12.46	6.312			
2,400.0	2,392.6	2,390.0	2,377.4	7.0	7.2		-61.52	47.8	-151.8	81.5	68.9	12.60	6.473			
2,470.0	2,461.7	2,459.5	2,444.8	7.2	7.5		-60.77	54.0	-167.5	89.5	76.5	12.97	6.901			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
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)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
2,500.0	2,491.4	2,489.3	2,473.8	7.3	7.6	-60.48	56.7	-174.2	93.0	79.8	13.14	7.076		
2,565.0	2,555.6	2,553.9	2,536.4	7.5	7.8	-59.94	62.4	-188.7	100.4	86.9	13.50	7.437		
2,600.0	2,590.1	2,588.6	2,570.1	7.7	7.9	-59.68	65.5	-196.5	104.4	90.7	13.69	7.623		
2,660.0	2,649.4	2,648.2	2,628.0	7.9	8.1	-59.27	70.8	-209.9	111.3	97.2	14.04	7.926		
2,700.0	2,688.9	2,688.0	2,666.5	8.0	8.3	-59.03	74.4	-218.9	115.9	101.6	14.27	8.119		
2,755.0	2,743.2	2,742.6	2,719.5	8.2	8.5	-58.73	79.2	-231.2	122.2	107.6	14.59	8.372		
2,800.0	2,787.7	2,787.3	2,762.9	8.4	8.7	-58.50	83.2	-241.2	127.3	112.5	14.86	8.570		
2,850.0	2,837.1	2,837.0	2,811.1	8.6	8.9	-58.27	87.7	-252.4	133.1	117.9	15.16	8.779		
2,900.0	2,886.5	2,886.6	2,859.3	8.7	9.1	-58.06	92.1	-263.6	138.8	123.4	15.46	8.979		
2,945.0	2,930.9	2,931.3	2,902.7	8.9	9.2	-57.88	96.1	-273.6	144.0	128.2	15.74	9.150		
3,000.0	2,985.2	2,986.0	2,955.7	9.1	9.5	-57.68	100.9	-285.9	150.3	134.2	16.07	9.351		
3,040.0	3,024.7	3,025.7	2,994.2	9.3	9.6	-57.55	104.5	-294.8	154.9	138.6	16.32	9.490		
3,100.0	3,084.0	3,085.3	3,052.0	9.5	9.9	-57.36	109.8	-308.2	161.8	145.1	16.70	9.689		
3,135.0	3,118.6	3,120.1	3,085.8	9.6	10.0	-57.26	112.9	-316.1	165.8	148.9	16.92	9.801		
3,200.0	3,182.8	3,184.6	3,148.4	9.9	10.3	-57.08	118.6	-330.6	173.3	156.0	17.33	9.999		
3,230.0	3,212.4	3,214.4	3,177.3	10.0	10.4	-57.01	121.3	-337.3	176.8	159.2	17.52	10.087		
3,300.0	3,281.5	3,284.0	3,244.8	10.3	10.7	-56.84	127.5	-352.9	184.8	166.8	17.97	10.282		
3,325.0	3,306.2	3,308.8	3,268.9	10.4	10.8	-56.78	129.7	-358.5	187.7	169.5	18.13	10.349		
3,400.0	3,380.3	3,383.3	3,341.2	10.7	11.1	-56.62	136.4	-375.3	196.3	177.7	18.62	10.542		
3,420.0	3,400.0	3,403.2	3,360.5	10.8	11.2	-56.58	138.1	-379.7	198.6	179.9	18.75	10.591		
3,500.0	3,479.1	3,482.6	3,437.6	11.1	11.6	-56.43	145.2	-397.6	207.8	188.5	19.28	10.780		
3,515.0	3,493.9	3,497.5	3,452.0	11.1	11.6	-56.41	146.5	-401.0	209.5	190.2	19.38	10.815		
3,600.0	3,577.8	3,582.0	3,534.0	11.5	12.0	-56.26	154.1	-420.0	219.3	199.4	19.94	11.000		
3,610.0	3,587.7	3,591.9	3,543.6	11.5	12.1	-56.24	155.0	-422.2	220.5	200.5	20.01	11.021		
3,700.0	3,676.6	3,681.3	3,630.3	11.9	12.4	-56.11	162.9	-442.3	230.8	210.2	20.61	11.203		
3,705.0	3,681.5	3,686.3	3,635.2	11.9	12.5	-56.10	163.4	-443.4	231.4	210.8	20.64	11.212		
3,800.0	3,775.4	3,780.6	3,726.7	12.3	12.9	-55.97	171.8	-464.7	242.4	221.1	21.28	11.390		
3,895.0	3,869.2	3,875.0	3,818.3	12.7	13.3	-55.85	180.2	-485.9	253.3	231.4	21.92	11.556		
3,900.0	3,874.1	3,880.0	3,823.1	12.7	13.3	-55.84	180.6	-487.0	253.9	231.9	21.95	11.564		
3,990.0	3,963.0	3,969.4	3,909.8	13.1	13.7	-55.73	188.6	-507.1	264.2	241.7	22.57	11.710		
4,000.0	3,972.9	3,979.3	3,919.5	13.1	13.8	-55.72	189.5	-509.3	265.4	242.8	22.63	11.725		
4,085.0	4,056.9	4,063.7	4,001.4	13.5	14.2	-55.63	197.0	-528.3	275.2	252.0	23.22	11.853		
4,100.0	4,071.7	4,078.6	4,015.9	13.5	14.2	-55.62	198.4	-531.7	276.9	253.6	23.32	11.875		
4,180.0	4,150.7	4,158.1	4,093.0	13.9	14.6	-55.54	205.4	-549.6	286.1	262.2	23.88	11.984		
4,209.2	4,179.5	4,187.1	4,121.1	14.0	14.7	-55.51	208.0	-556.1	289.5	265.4	24.08	12.022		
4,275.0	4,244.6	4,252.4	4,184.5	14.3	15.0	-55.45	213.9	-570.8	297.3	272.7	24.54	12.116		
4,300.0	4,269.3	4,277.2	4,208.6	14.4	15.2	-55.41	216.1	-576.4	300.3	275.6	24.71	12.152		
4,370.0	4,338.7	4,346.7	4,275.9	14.7	15.5	-55.19	222.3	-592.0	309.3	284.0	25.23	12.257		
4,400.0	4,368.4	4,376.4	4,304.8	14.8	15.6	-55.06	224.9	-598.7	313.3	287.8	25.46	12.302		
4,465.0	4,433.0	4,440.7	4,367.2	15.0	15.9	-54.72	230.6	-613.1	322.2	296.2	25.97	12.406		
4,500.0	4,467.8	4,475.3	4,400.8	15.2	16.1	-54.51	233.7	-620.9	327.2	300.9	26.25	12.463		
4,560.0	4,527.5	4,534.6	4,458.3	15.4	16.3	-54.09	239.0	-634.3	336.1	309.3	26.74	12.567		
4,600.0	4,567.3	4,574.1	4,496.6	15.6	16.5	-53.78	242.5	-643.1	342.2	315.1	27.08	12.637		
4,655.0	4,622.1	4,628.3	4,549.2	15.8	16.8	-53.32	247.4	-655.3	350.9	323.4	27.53	12.744		
4,700.0	4,667.0	4,674.7	4,594.3	15.9	17.0	-52.90	251.5	-665.7	358.2	330.3	27.93	12.824		
4,750.0	4,716.9	4,726.8	4,645.0	16.1	17.2	-52.43	255.9	-676.8	366.2	337.8	28.37	12.906		
4,800.0	4,766.8	4,779.0	4,695.9	16.3	17.5	-51.96	260.2	-687.6	374.1	345.3	28.82	12.979		
4,845.0	4,811.7	4,826.1	4,741.9	16.4	17.7	-51.54	263.9	-696.9	381.1	351.9	29.22	13.044		
4,900.0	4,866.7	4,883.7	4,798.3	16.6	17.9	-51.02	268.2	-707.9	389.6	359.9	29.70	13.117		
4,940.0	4,906.7	4,925.7	4,839.4	16.7	18.1	-50.65	271.2	-715.5	395.7	365.6	30.04	13.171		
5,000.0	4,966.6	4,988.8	4,901.4	16.9	18.4	-50.09	275.6	-726.5	404.7	374.1	30.55	13.246		

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Reference Well:	FLAMING SNAIL FEDERAL COM #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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													Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
5,035.0	5,001.6	5,025.6	4,937.6	17.0	18.6	-49.76	278.0	-732.6	409.9	379.1	30.82	13.298				
5,109.4	5,076.0	5,104.1	5,015.0	17.1	18.9	-95.02	282.9	-744.9	420.8	389.4	31.40	13.401				
5,130.0	5,096.6	5,125.9	5,036.5	17.1	19.0	-94.80	284.2	-748.2	423.7	392.2	31.54	13.435				
5,200.0	5,166.6	5,200.1	5,109.8	17.1	19.3	-94.14	288.3	-758.6	433.3	401.3	32.00	13.540				
5,225.0	5,191.6	5,226.6	5,136.1	17.1	19.4	-93.92	289.7	-762.2	436.5	404.3	32.16	13.573				
5,300.0	5,266.6	5,306.5	5,215.3	17.2	19.8	-93.32	293.6	-772.1	445.6	413.0	32.62	13.660				
5,320.0	5,286.6	5,327.9	5,236.5	17.2	19.9	-93.18	294.6	-774.6	447.9	415.1	32.74	13.680				
5,400.0	5,366.6	5,413.5	5,321.5	17.2	20.2	-92.65	298.3	-783.8	456.3	423.1	33.19	13.747				
5,415.0	5,381.6	5,429.6	5,337.5	17.2	20.3	-92.56	298.9	-785.4	457.8	424.5	33.27	13.757				
5,500.0	5,466.6	5,520.9	5,428.4	17.3	20.6	-92.11	302.2	-793.7	465.3	431.6	33.71	13.802				
5,510.0	5,476.6	5,531.7	5,439.1	17.3	20.7	-92.07	302.6	-794.5	466.2	432.4	33.76	13.806				
5,600.0	5,566.6	5,628.7	5,535.8	17.3	21.0	-91.69	305.4	-801.7	472.7	438.5	34.19	13.827				
5,605.0	5,571.6	5,634.1	5,541.2	17.3	21.1	-91.67	305.5	-802.1	473.0	438.8	34.21	13.828				
5,700.0	5,666.6	5,736.8	5,643.7	17.4	21.4	-91.37	307.8	-807.9	478.4	443.8	34.61	13.823				
5,795.0	5,761.6	5,839.6	5,746.5	17.4	21.8	-91.17	309.5	-812.0	482.1	447.2	34.95	13.794				
5,800.0	5,766.6	5,845.0	5,751.9	17.4	21.8	-91.16	309.5	-812.2	482.3	447.3	34.97	13.792				
5,890.0	5,856.6	5,942.6	5,849.4	17.5	22.1	-91.05	310.4	-814.4	484.3	449.1	35.24	13.746				
5,900.0	5,866.6	5,953.4	5,860.2	17.5	22.1	-91.04	310.5	-814.6	484.5	449.2	35.26	13.740				
5,985.0	5,951.6	6,044.8	5,951.6	17.5	22.2	-91.02	310.7	-815.1	485.0	449.6	35.40	13.700				
6,000.0	5,966.6	6,059.8	5,966.6	17.6	22.2	-91.02	310.7	-815.1	485.0	449.6	35.41	13.695				
6,080.0	6,046.6	6,139.8	6,046.6	17.6	22.3	-91.02	310.7	-815.1	485.0	449.5	35.49	13.665				
6,100.0	6,066.6	6,159.8	6,066.6	17.6	22.3	-91.02	310.7	-815.1	485.0	449.5	35.51	13.657				
6,175.0	6,141.6	6,234.8	6,141.6	17.6	22.3	-91.02	310.7	-815.1	485.0	449.4	35.59	13.627				
6,200.0	6,166.6	6,259.8	6,166.6	17.7	22.3	-91.02	310.7	-815.1	485.0	449.4	35.62	13.617				
6,270.0	6,236.6	6,329.8	6,236.6	17.7	22.3	-91.02	310.7	-815.1	485.0	449.3	35.69	13.589				
6,300.0	6,266.6	6,359.8	6,266.6	17.7	22.3	-91.02	310.7	-815.1	485.0	449.3	35.72	13.577				
6,365.0	6,331.6	6,424.8	6,331.6	17.8	22.4	-91.02	310.7	-815.1	485.0	449.2	35.79	13.551				
6,400.0	6,366.6	6,459.8	6,366.6	17.8	22.4	-91.02	310.7	-815.1	485.0	449.1	35.83	13.537				
6,460.0	6,426.6	6,519.8	6,426.6	17.8	22.4	-91.02	310.7	-815.1	485.0	449.1	35.89	13.513				
6,500.0	6,466.6	6,559.8	6,466.6	17.8	22.4	-91.02	310.7	-815.1	485.0	449.0	35.93	13.497				
6,555.0	6,521.6	6,614.8	6,521.6	17.9	22.4	-91.02	310.7	-815.1	485.0	449.0	35.99	13.475				
6,600.0	6,566.6	6,659.8	6,566.6	17.9	22.5	-91.02	310.7	-815.1	485.0	448.9	36.04	13.457				
6,650.0	6,616.6	6,709.8	6,616.6	17.9	22.5	-91.02	310.7	-815.1	485.0	448.9	36.09	13.437				
6,700.0	6,666.6	6,759.8	6,666.6	17.9	22.5	-91.02	310.7	-815.1	485.0	448.8	36.15	13.417				
6,745.0	6,711.6	6,804.8	6,711.6	18.0	22.5	-91.02	310.7	-815.1	485.0	448.8	36.19	13.399				
6,800.0	6,766.6	6,859.8	6,766.6	18.0	22.5	-91.02	310.7	-815.1	485.0	448.7	36.25	13.377				
6,840.0	6,806.6	6,899.8	6,806.6	18.0	22.6	-91.02	310.7	-815.1	485.0	448.7	36.30	13.361				
6,900.0	6,866.6	6,959.8	6,866.6	18.1	22.6	-91.02	310.7	-815.1	485.0	448.6	36.36	13.338				
6,935.0	6,901.6	6,994.8	6,901.6	18.1	22.6	-91.02	310.7	-815.1	485.0	448.6	36.40	13.324				
7,000.0	6,966.6	7,059.8	6,966.6	18.1	22.6	-91.02	310.7	-815.1	485.0	448.5	36.47	13.298				
7,030.0	6,996.6	7,089.8	6,996.6	18.1	22.6	-91.02	310.7	-815.1	485.0	448.5	36.50	13.286				
7,100.0	7,066.6	7,159.8	7,066.6	18.2	22.7	-91.02	310.7	-815.1	485.0	448.4	36.58	13.259				
7,125.0	7,091.6	7,184.8	7,091.6	18.2	22.7	-91.02	310.7	-815.1	485.0	448.4	36.60	13.249				
7,200.0	7,166.6	7,259.8	7,166.6	18.2	22.7	-91.02	310.7	-815.1	485.0	448.3	36.69	13.220				
7,220.0	7,186.6	7,279.8	7,186.6	18.2	22.7	-91.02	310.7	-815.1	485.0	448.3	36.71	13.212				
7,300.0	7,266.6	7,359.8	7,266.6	18.3	22.7	-91.02	310.7	-815.1	485.0	448.2	36.80	13.180				
7,315.0	7,281.6	7,374.8	7,281.6	18.3	22.7	-91.02	310.7	-815.1	485.0	448.2	36.81	13.174				
7,400.0	7,366.6	7,459.8	7,366.6	18.3	22.8	-91.02	310.7	-815.1	485.0	448.1	36.90	13.141				
7,410.0	7,376.6	7,469.8	7,376.6	18.3	22.8	-91.02	310.7	-815.1	485.0	448.1	36.92	13.137				
7,500.0	7,466.6	7,559.8	7,466.6	18.4	22.8	-91.02	310.7	-815.1	485.0	448.0	37.01	13.102				
7,505.0	7,471.6	7,564.8	7,471.6	18.4	22.8	-91.02	310.7	-815.1	485.0	448.0	37.02	13.100				

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 #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
7,600.0	7,566.6	7,659.8	7,566.6	18.4	22.9	-91.02	310.7	-815.1	485.0	447.9	37.12	13.063		
7,695.0	7,661.6	7,754.8	7,661.6	18.5	22.9	-91.02	310.7	-815.1	485.0	447.7	37.23	13.027		
7,700.0	7,666.6	7,759.8	7,666.6	18.5	22.9	-91.02	310.7	-815.1	485.0	447.7	37.24	13.025		
7,790.0	7,756.6	7,849.8	7,756.6	18.6	22.9	-91.02	310.7	-815.1	485.0	447.6	37.34	12.990		
7,800.0	7,766.6	7,859.8	7,766.6	18.6	22.9	-91.02	310.7	-815.1	485.0	447.6	37.35	12.986		
7,885.0	7,851.6	7,944.8	7,851.6	18.6	23.0	-91.02	310.7	-815.1	485.0	447.5	37.44	12.953		
7,900.0	7,866.6	7,959.8	7,866.6	18.6	23.0	-91.02	310.7	-815.1	485.0	447.5	37.46	12.947		
7,980.0	7,946.6	8,039.8	7,946.6	18.7	23.0	-91.02	310.7	-815.1	485.0	447.4	37.55	12.917		
8,000.0	7,966.6	8,059.8	7,966.6	18.7	23.0	-91.02	310.7	-815.1	485.0	447.4	37.57	12.909		
8,075.0	8,041.6	8,134.8	8,041.6	18.7	23.1	-91.02	310.7	-815.1	485.0	447.3	37.65	12.880		
8,100.0	8,066.6	8,159.8	8,066.6	18.7	23.1	-91.02	310.7	-815.1	485.0	447.3	37.68	12.871		
8,170.0	8,136.6	8,229.8	8,136.6	18.8	23.1	-91.02	310.7	-815.1	485.0	447.2	37.76	12.844		
8,200.0	8,166.6	8,259.8	8,166.6	18.8	23.1	-91.02	310.7	-815.1	485.0	447.2	37.79	12.832		
8,265.0	8,231.6	8,324.8	8,231.6	18.8	23.1	-91.02	310.7	-815.1	485.0	447.1	37.87	12.807		
8,300.0	8,266.6	8,359.8	8,266.6	18.9	23.2	-91.02	310.7	-815.1	485.0	447.1	37.91	12.794		
8,360.0	8,326.6	8,419.8	8,326.6	18.9	23.2	-91.02	310.7	-815.1	485.0	447.0	37.97	12.772		
8,400.0	8,366.6	8,459.8	8,366.6	18.9	23.2	-91.02	310.7	-815.1	485.0	447.0	38.01	12.759		
8,401.3	8,367.9	8,461.1	8,367.9	18.9	23.2	-91.02	310.7	-815.1	485.0	447.0	38.01	12.759		
8,432.4	8,399.0	8,492.0	8,398.8	18.9	23.2	-91.02	310.6	-815.1	485.0	447.0	38.03	12.754		
8,450.0	8,416.6	8,509.2	8,416.0	18.9	23.2	88.47	310.1	-815.1	485.0	447.0	38.03	12.754		
8,455.0	8,421.6	8,514.1	8,420.9	18.9	23.2	88.46	309.9	-815.1	485.0	447.0	38.03	12.754		
8,500.0	8,466.5	8,558.1	8,464.7	19.0	23.2	88.39	305.8	-815.1	485.0	447.0	38.04	12.751		
8,550.0	8,515.8	8,606.9	8,512.8	19.0	23.2	88.32	297.4	-815.2	485.0	447.0	38.05	12.748		
8,600.0	8,564.2	8,655.7	8,559.9	19.0	23.2	88.26	284.9	-815.3	485.0	447.0	38.06	12.744		
8,645.0	8,606.8	8,700.0	8,601.7	19.1	23.3	88.22	270.2	-815.4	485.0	447.0	38.06	12.743		
8,645.4	8,607.1	8,700.0	8,601.7	19.1	23.3	88.22	270.2	-815.4	485.0	447.0	38.07	12.740		
8,650.0	8,611.4	8,704.4	8,605.8	19.1	23.3	88.22	268.5	-815.4	485.0	447.0	38.07	12.739		
8,700.0	8,657.0	8,753.1	8,650.1	19.1	23.3	88.19	248.3	-815.6	485.1	447.0	38.09	12.733		
8,740.0	8,692.1	8,792.1	8,684.1	19.2	23.3	88.18	229.5	-815.8	485.1	446.9	38.11	12.727		
8,750.0	8,700.6	8,801.8	8,692.5	19.2	23.3	88.17	224.4	-815.8	485.1	446.9	38.12	12.726		
8,755.1	8,705.0	8,806.8	8,696.7	19.2	23.3	88.17	221.7	-815.8	485.1	446.9	38.12	12.725		
8,800.0	8,741.9	8,850.0	8,732.3	19.2	23.3	88.17	197.3	-816.0	485.1	446.9	38.16	12.713		
8,835.0	8,769.3	8,884.6	8,759.4	19.2	23.3	88.18	175.8	-816.2	485.1	446.9	38.17	12.708		
8,850.0	8,780.6	8,899.2	8,770.4	19.3	23.3	88.18	166.2	-816.3	485.1	446.9	38.18	12.705		
8,900.0	8,816.4	8,947.9	8,805.4	19.3	23.4	88.20	132.4	-816.6	485.1	446.8	38.22	12.690		
8,930.0	8,836.4	8,977.1	8,825.0	19.3	23.4	88.22	110.7	-816.8	485.0	446.8	38.25	12.680		
8,950.0	8,849.0	8,996.6	8,837.4	19.4	23.4	88.24	95.7	-816.9	485.0	446.8	38.27	12.673		
9,000.0	8,878.2	9,045.4	8,866.2	19.4	23.4	88.29	56.4	-817.2	485.0	446.7	38.34	12.652		
9,025.0	8,891.5	9,069.7	8,879.3	19.4	23.4	88.32	35.8	-817.4	485.0	446.6	38.37	12.640		
9,050.0	8,903.8	9,094.1	8,891.6	19.5	23.5	88.35	14.7	-817.5	485.0	446.6	38.41	12.628		
9,100.0	8,925.5	9,143.0	8,913.4	19.5	23.5	88.43	-29.0	-817.9	485.0	446.5	38.49	12.600		
9,120.0	8,933.1	9,162.5	8,921.0	19.5	23.5	88.46	-46.9	-818.1	485.0	446.5	38.53	12.587		
9,150.0	8,943.2	9,191.9	8,931.3	19.6	23.5	88.52	-74.4	-818.3	485.0	446.4	38.59	12.568		
9,200.0	8,956.8	9,240.8	8,945.4	19.6	23.6	88.61	-121.3	-818.7	485.0	446.3	38.69	12.533		
9,215.0	8,960.0	9,255.5	8,948.8	19.6	23.6	88.64	-135.6	-818.8	485.0	446.2	38.73	12.521		
9,250.0	8,966.1	9,289.8	8,955.4	19.6	23.7	88.72	-169.3	-819.1	484.9	446.1	38.81	12.494		
9,300.0	8,971.1	9,338.9	8,961.3	19.7	23.7	88.84	-218.0	-819.5	484.9	446.0	38.94	12.453		
9,310.0	8,971.6	9,348.8	8,962.0	19.7	23.7	88.86	-227.8	-819.6	484.9	445.9	38.97	12.444		
9,332.1	8,972.0	9,370.5	8,962.9	19.7	23.7	88.92	-249.5	-819.7	484.9	445.9	39.03	12.425		
9,344.3	8,972.0	9,382.5	8,963.0	19.7	23.8	88.94	-261.5	-819.8	484.9	445.8	39.06	12.414		
9,400.0	8,972.0	9,438.2	8,963.0	19.8	23.8	88.94	-317.2	-820.3	484.9	445.7	39.23	12.362		

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

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Anticollision Report

Table with 4 columns: Company, Project, Reference Site, Site Error, Reference Well, Well Error, Reference Wellbore, Reference Design, Local Co-ordinate Reference, TVD Reference, MD Reference, North Reference, Survey Calculation Method, Output errors are at, Database, Offset TVD Reference.

Table with 13 columns: Offset Design, Survey Program, Reference, Vertical, Measured Depth, Vertical, Measured Depth, Vertical, Reference, Offset, Highside Toolface, Offset Wellbore Centre, Distance, Minimum Separation, Separation Factor, Warning. Contains multiple rows of data.

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

ConocoPhillips
Anticollision Report

Company: DELAWARE BASIN WEST
Local Co-ordinate Reference: Well FLAMING SNAIL FEDERAL COM #703H
Project: ATLAS PROSPECT (NM-E)
Reference Site: FLAMING SNAIL FED COM PROJECT
Site Error: 0.0 usft
Reference Well: FLAMING SNAIL FEDERAL COM #703H
Well Error: 3.0 usft
Reference Wellbore: OWB
Reference Design: PWP1

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #704H - OWB - PWP1
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8483-r.5 MWD+IFR1+MS
Table with columns: Measured Reference Depth, Vertical Depth, Measured Offset Depth, Vertical Offset Depth, Reference (usft), Offset (usft), Highside Toolface (°), Offset Wellbore Centre (+N/-S, +E/-W), Distance (Between Centres, Ellipses), Minimum Separation, Separation Factor, Warning

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

ConocoPhillips
Anticollision Report

Summary table containing Company, Project, Reference Site, Site Error, Reference Well, Well Error, Reference Wellbore, Reference Design, Local Co-ordinate Reference, TVD Reference, MD Reference, North Reference, Survey Calculation Method, Output errors are at, Database, and Offset TVD Reference.

Main data table with columns: Offset Design, Survey Program, Reference, Measured Vertical Depth, Offset Vertical Depth, Semi Major Axis Reference/Offset, Highside Toolface, Offset Wellbore Centre (+N/-S, +E/-W), Distance (Between Centres, Between Ellipses), Minimum Separation, Separation Factor, Warning, Offset Site Error, and Offset Well Error.

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,595.0	8,972.2	9,667.3	8,953.2	20.0	30.8	88.89		-508.2	-1,306.7	969.8	922.7	47.15	20.567	
9,600.0	8,972.2	9,672.3	8,953.2	20.0	30.8	88.89		-513.2	-1,306.7	969.8	922.6	47.17	20.559	
9,690.0	8,972.2	9,762.3	8,953.3	20.2	31.0	88.89		-603.2	-1,307.5	969.8	922.3	47.55	20.398	
9,700.0	8,972.2	9,772.3	8,953.3	20.2	31.0	88.89		-613.2	-1,307.6	969.8	922.2	47.59	20.380	
9,785.0	8,972.3	9,857.3	8,953.3	20.3	31.2	88.89		-698.2	-1,308.3	969.8	921.8	47.98	20.213	
9,800.0	8,972.3	9,872.3	8,953.4	20.3	31.2	88.89		-713.2	-1,308.4	969.8	921.8	48.05	20.184	
9,880.0	8,972.3	9,952.3	8,953.4	20.5	31.4	88.89		-793.2	-1,309.1	969.8	921.4	48.45	20.015	
9,900.0	8,972.3	9,972.3	8,953.4	20.5	31.4	88.89		-813.2	-1,309.2	969.8	921.3	48.56	19.973	
9,975.0	8,972.4	10,047.3	8,953.5	20.7	31.6	88.89		-888.2	-1,309.9	969.8	920.9	48.97	19.804	
10,000.0	8,972.4	10,072.3	8,953.5	20.7	31.6	88.89		-913.2	-1,310.1	969.8	920.7	49.11	19.748	
10,070.0	8,972.4	10,142.3	8,953.6	20.9	31.8	88.89		-983.2	-1,310.6	969.8	920.3	49.52	19.583	
10,100.0	8,972.5	10,172.3	8,953.6	20.9	31.8	88.89		-1,013.2	-1,310.9	969.8	920.1	49.70	19.512	
10,165.0	8,972.5	10,237.3	8,953.6	21.1	32.0	88.89		-1,078.2	-1,311.4	969.8	919.7	50.12	19.352	
10,200.0	8,972.5	10,272.3	8,953.7	21.2	32.1	88.89		-1,113.2	-1,311.7	969.8	919.5	50.34	19.266	
10,260.0	8,972.6	10,332.3	8,953.7	21.4	32.2	88.89		-1,173.2	-1,312.2	969.8	919.1	50.74	19.113	
10,300.0	8,972.6	10,372.3	8,953.8	21.5	32.3	88.89		-1,213.2	-1,312.5	969.8	918.8	51.01	19.011	
10,355.0	8,972.6	10,427.3	8,953.8	21.6	32.5	88.89		-1,268.2	-1,313.0	969.8	918.4	51.40	18.868	
10,400.0	8,972.6	10,472.3	8,953.8	21.8	32.6	88.89		-1,313.2	-1,313.4	969.8	918.1	51.72	18.750	
10,450.0	8,972.7	10,522.3	8,953.9	21.9	32.8	88.90		-1,363.2	-1,313.8	969.8	917.7	52.09	18.617	
10,500.0	8,972.7	10,572.3	8,953.9	22.1	32.9	88.90		-1,413.2	-1,314.2	969.8	917.4	52.47	18.484	
10,545.0	8,972.7	10,617.3	8,954.0	22.3	33.0	88.90		-1,458.2	-1,314.6	969.8	917.0	52.82	18.362	
10,600.0	8,972.8	10,672.3	8,954.0	22.4	33.2	88.90		-1,513.2	-1,315.0	969.8	916.6	53.25	18.214	
10,640.0	8,972.8	10,712.3	8,954.0	22.6	33.3	88.90		-1,553.2	-1,315.4	969.8	916.3	53.57	18.104	
10,700.0	8,972.8	10,772.3	8,954.1	22.8	33.5	88.90		-1,613.2	-1,315.9	969.8	915.8	54.06	17.941	
10,735.0	8,972.8	10,807.3	8,954.1	23.0	33.6	88.90		-1,648.2	-1,316.1	969.8	915.5	54.35	17.844	
10,800.0	8,972.9	10,872.3	8,954.2	23.2	33.9	88.90		-1,713.2	-1,316.7	969.8	914.9	54.90	17.666	
10,830.0	8,972.9	10,902.3	8,954.2	23.3	34.0	88.90		-1,743.2	-1,316.9	969.8	914.7	55.16	17.583	
10,900.0	8,972.9	10,972.3	8,954.2	23.6	34.2	88.90		-1,813.2	-1,317.5	969.8	914.1	55.77	17.390	
10,925.0	8,973.0	10,997.3	8,954.3	23.7	34.3	88.90		-1,838.2	-1,317.7	969.8	913.8	55.99	17.321	
11,000.0	8,973.0	11,072.3	8,954.3	24.1	34.6	88.90		-1,913.2	-1,318.3	969.8	913.2	56.67	17.115	
11,020.0	8,973.0	11,092.3	8,954.3	24.2	34.6	88.90		-1,933.2	-1,318.5	969.8	913.0	56.85	17.060	
11,100.0	8,973.1	11,172.3	8,954.4	24.5	34.9	88.90		-2,013.2	-1,319.2	969.8	912.2	57.59	16.841	
11,115.0	8,973.1	11,187.3	8,954.4	24.6	35.0	88.90		-2,028.2	-1,319.3	969.8	912.1	57.73	16.800	
11,200.0	8,973.1	11,272.3	8,954.5	25.0	35.3	88.90		-2,113.1	-1,320.0	969.8	911.3	58.54	16.568	
11,210.0	8,973.1	11,282.3	8,954.5	25.1	35.4	88.90		-2,123.1	-1,320.1	969.8	911.2	58.63	16.541	
11,300.0	8,973.2	11,372.3	8,954.6	25.5	35.7	88.91		-2,213.1	-1,320.8	969.8	910.3	59.51	16.298	
11,305.0	8,973.2	11,377.3	8,954.6	25.5	35.7	88.91		-2,218.1	-1,320.9	969.8	910.3	59.56	16.285	
11,400.0	8,973.2	11,472.3	8,954.6	26.0	36.1	88.91		-2,313.1	-1,321.6	969.8	909.3	60.50	16.031	
11,495.0	8,973.3	11,567.3	8,954.7	26.5	36.5	88.91		-2,408.1	-1,322.4	969.8	908.4	61.46	15.779	
11,500.0	8,973.3	11,572.3	8,954.7	26.6	36.5	88.91		-2,413.1	-1,322.5	969.8	908.3	61.51	15.766	
11,590.0	8,973.4	11,662.3	8,954.8	27.1	36.9	88.91		-2,503.1	-1,323.2	969.8	907.4	62.44	15.531	
11,600.0	8,973.4	11,672.3	8,954.8	27.1	36.9	88.91		-2,513.1	-1,323.3	969.8	907.3	62.55	15.506	
11,685.0	8,973.4	11,757.3	8,954.9	27.6	37.3	88.91		-2,598.1	-1,324.0	969.8	906.4	63.44	15.287	
11,700.0	8,973.4	11,772.3	8,954.9	27.7	37.4	88.91		-2,613.1	-1,324.1	969.8	906.2	63.60	15.249	
11,780.0	8,973.5	11,852.3	8,954.9	28.1	37.7	88.91		-2,693.1	-1,324.8	969.8	905.4	64.46	15.046	
11,800.0	8,973.5	11,872.3	8,955.0	28.2	37.8	88.91		-2,713.1	-1,325.0	969.8	905.2	64.67	14.996	
11,875.0	8,973.5	11,947.3	8,955.0	28.7	38.2	88.91		-2,788.1	-1,325.6	969.8	904.4	65.49	14.809	
11,900.0	8,973.5	11,972.3	8,955.0	28.8	38.3	88.91		-2,813.1	-1,325.8	969.8	904.1	65.76	14.748	
11,970.0	8,973.6	12,042.3	8,955.1	29.2	38.6	88.91		-2,883.1	-1,326.4	969.8	903.3	66.53	14.577	
12,000.0	8,973.6	12,072.3	8,955.1	29.4	38.7	88.91		-2,913.1	-1,326.6	969.8	903.0	66.87	14.504	
12,065.0	8,973.6	12,137.3	8,955.2	29.8	39.0	88.91		-2,978.1	-1,327.1	969.8	902.3	67.59	14.348	

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 #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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	
Rule Assigned:															
Measured Reference	Vertical	Measured	Vertical	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning		
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
12,100.0	8,973.7	12,172.3	8,955.2	30.0	39.2	88.92	-3,013.1	-1,327.4	969.8	901.9	67.99	14.265			
12,160.0	8,973.7	12,232.3	8,955.3	30.4	39.5	88.92	-3,073.1	-1,327.9	969.8	901.2	68.67	14.124			
12,200.0	8,973.7	12,272.3	8,955.3	30.6	39.7	88.92	-3,113.1	-1,328.3	969.8	900.7	69.12	14.031			
12,255.0	8,973.8	12,327.3	8,955.3	31.0	40.0	88.92	-3,168.1	-1,328.7	969.8	900.1	69.75	13.904			
12,300.0	8,973.8	12,372.3	8,955.4	31.2	40.2	88.92	-3,213.1	-1,329.1	969.8	899.6	70.27	13.801			
12,350.0	8,973.8	12,422.3	8,955.4	31.6	40.4	88.92	-3,263.1	-1,329.5	969.9	899.0	70.85	13.688			
12,400.0	8,973.8	12,472.3	8,955.4	31.9	40.7	88.92	-3,313.1	-1,329.9	969.9	898.4	71.44	13.576			
12,445.0	8,973.9	12,517.3	8,955.5	32.1	40.9	88.92	-3,358.1	-1,330.3	969.9	897.9	71.96	13.477			
12,500.0	8,973.9	12,572.3	8,955.5	32.5	41.2	88.92	-3,413.1	-1,330.7	969.9	897.2	72.61	13.357			
12,540.0	8,973.9	12,612.3	8,955.6	32.8	41.4	88.92	-3,453.1	-1,331.1	969.9	896.8	73.09	13.270			
12,600.0	8,974.0	12,672.3	8,955.6	33.1	41.7	88.92	-3,513.1	-1,331.6	969.9	896.1	73.80	13.141			
12,635.0	8,974.0	12,707.3	8,955.6	33.4	41.9	88.92	-3,548.1	-1,331.9	969.9	895.6	74.22	13.067			
12,700.0	8,974.0	12,772.3	8,955.7	33.8	42.2	88.92	-3,613.1	-1,332.4	969.9	894.9	75.00	12.931			
12,730.0	8,974.0	12,802.3	8,955.7	34.0	42.4	88.92	-3,643.1	-1,332.7	969.9	894.5	75.36	12.869			
12,800.0	8,974.1	12,872.3	8,955.8	34.4	42.8	88.92	-3,713.1	-1,333.2	969.9	893.6	76.21	12.726			
12,825.0	8,974.1	12,897.3	8,955.8	34.6	42.9	88.92	-3,738.1	-1,333.4	969.9	893.3	76.52	12.675			
12,900.0	8,974.1	12,972.3	8,955.8	35.1	43.3	88.93	-3,813.1	-1,334.1	969.9	892.4	77.44	12.525			
12,920.0	8,974.2	12,992.3	8,955.9	35.2	43.4	88.93	-3,833.1	-1,334.2	969.9	892.2	77.68	12.485			
13,000.0	8,974.2	13,072.3	8,955.9	35.8	43.8	88.93	-3,913.1	-1,334.9	969.9	891.2	78.67	12.329			
13,015.0	8,974.2	13,087.3	8,955.9	35.9	43.9	88.93	-3,928.1	-1,335.0	969.9	891.0	78.85	12.300			
13,100.0	8,974.3	13,172.3	8,956.0	36.4	44.4	88.93	-4,013.1	-1,335.7	969.9	889.9	79.91	12.137			
13,110.0	8,974.3	13,182.3	8,956.0	36.5	44.4	88.93	-4,023.1	-1,335.8	969.9	889.8	80.03	12.118			
13,200.0	8,974.3	13,272.3	8,956.1	37.1	44.9	88.93	-4,113.1	-1,336.5	969.9	888.7	81.16	11.950			
13,205.0	8,974.3	13,277.3	8,956.1	37.1	45.0	88.93	-4,118.1	-1,336.6	969.9	888.6	81.22	11.941			
13,300.0	8,974.4	13,372.3	8,956.2	37.8	45.5	88.93	-4,213.1	-1,337.4	969.9	887.4	82.42	11.767			
13,395.0	8,974.4	13,467.3	8,956.2	38.4	46.0	88.93	-4,308.1	-1,338.2	969.9	886.2	83.63	11.598			
13,400.0	8,974.4	13,472.3	8,956.3	38.4	46.1	88.93	-4,313.1	-1,338.2	969.9	886.2	83.69	11.589			
13,490.0	8,974.5	13,562.3	8,956.3	39.1	46.6	88.93	-4,403.1	-1,338.9	969.9	885.0	84.84	11.432			
13,500.0	8,974.5	13,572.3	8,956.3	39.1	46.6	88.93	-4,413.1	-1,339.0	969.9	884.9	84.97	11.415			
13,585.0	8,974.6	13,657.3	8,956.4	39.7	47.1	88.93	-4,498.1	-1,339.7	969.9	883.8	86.06	11.270			
13,600.0	8,974.6	13,672.3	8,956.4	39.8	47.2	88.93	-4,513.1	-1,339.9	969.9	883.6	86.25	11.245			
13,680.0	8,974.6	13,752.3	8,956.5	40.4	47.7	88.93	-4,593.1	-1,340.5	969.9	882.6	87.29	11.111			
13,700.0	8,974.6	13,772.3	8,956.5	40.5	47.8	88.93	-4,613.1	-1,340.7	969.9	882.3	87.54	11.079			
13,775.0	8,974.7	13,847.3	8,956.6	41.0	48.2	88.94	-4,688.1	-1,341.3	969.9	881.3	88.52	10.957			
13,800.0	8,974.7	13,872.3	8,956.6	41.2	48.4	88.94	-4,713.1	-1,341.5	969.9	881.0	88.84	10.917			
13,870.0	8,974.7	13,942.3	8,956.6	41.7	48.8	88.94	-4,783.1	-1,342.1	969.9	880.1	89.76	10.805			
13,900.0	8,974.7	13,972.3	8,956.7	41.9	49.0	88.94	-4,813.1	-1,342.3	969.9	879.7	90.15	10.758			
13,965.0	8,974.8	14,037.3	8,956.7	42.3	49.4	88.94	-4,878.1	-1,342.9	969.9	878.9	91.00	10.658			
14,000.0	8,974.8	14,072.3	8,956.7	42.6	49.6	88.94	-4,913.1	-1,343.2	969.9	878.4	91.46	10.604			
14,060.0	8,974.8	14,132.3	8,956.8	43.0	49.9	88.94	-4,973.0	-1,343.7	969.9	877.6	92.25	10.513			
14,100.0	8,974.9	14,172.3	8,956.8	43.3	50.2	88.94	-5,013.0	-1,344.0	969.9	877.1	92.78	10.453			
14,155.0	8,974.9	14,227.3	8,956.9	43.7	50.5	88.94	-5,068.0	-1,344.4	969.9	876.4	93.51	10.372			
14,200.0	8,974.9	14,272.3	8,956.9	44.0	50.8	88.94	-5,113.0	-1,344.8	969.9	875.8	94.11	10.306			
14,250.0	8,975.0	14,322.3	8,956.9	44.3	51.1	88.94	-5,163.0	-1,345.2	969.9	875.1	94.77	10.234			
14,300.0	8,975.0	14,372.3	8,957.0	44.7	51.4	88.94	-5,213.0	-1,345.6	969.9	874.4	95.44	10.162			
14,345.0	8,975.0	14,417.3	8,957.0	45.0	51.7	88.94	-5,258.0	-1,346.0	969.9	873.8	96.04	10.099			
14,400.0	8,975.0	14,472.3	8,957.1	45.4	52.0	88.94	-5,313.0	-1,346.5	969.9	873.1	96.78	10.022			
14,440.0	8,975.1	14,512.3	8,957.1	45.7	52.3	88.94	-5,353.0	-1,346.8	969.9	872.6	97.31	9.967			
14,500.0	8,975.1	14,572.3	8,957.1	46.1	52.6	88.94	-5,413.0	-1,347.3	969.9	871.8	98.12	9.885			
14,535.0	8,975.1	14,607.3	8,957.2	46.4	52.8	88.94	-5,448.0	-1,347.6	969.9	871.3	98.59	9.838			
14,600.0	8,975.2	14,672.3	8,957.2	46.8	53.2	88.95	-5,513.0	-1,348.1	969.9	870.4	99.47	9.751			

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #705H - OWB - PWP1													Offset Site Error:	0.0 usft		
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 8530-r.5 MWD+IFR1+MS													Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
14,630.0	8,975.2	14,702.3	8,957.2	47.0	53.4	88.95	-5,543.0	-1,348.4	969.9	870.0	99.87	9.711				
14,700.0	8,975.2	14,772.3	8,957.3	47.5	53.9	88.95	-5,613.0	-1,349.0	969.9	869.1	100.82	9.620				
14,725.0	8,975.2	14,797.3	8,957.3	47.7	54.0	88.95	-5,638.0	-1,349.2	969.9	868.7	101.16	9.588				
14,800.0	8,975.3	14,872.3	8,957.4	48.3	54.5	88.95	-5,713.0	-1,349.8	969.9	867.7	102.17	9.492				
14,820.0	8,975.3	14,892.3	8,957.4	48.4	54.6	88.95	-5,733.0	-1,349.9	969.9	867.4	102.45	9.467				
14,900.0	8,975.3	14,972.3	8,957.5	49.0	55.1	88.95	-5,813.0	-1,350.6	969.9	866.3	103.54	9.368				
14,915.0	8,975.4	14,987.3	8,957.5	49.1	55.2	88.95	-5,828.0	-1,350.7	969.9	866.1	103.74	9.349				
15,000.0	8,975.4	15,072.3	8,957.5	49.7	55.8	88.95	-5,913.0	-1,351.4	969.9	865.0	104.90	9.246				
15,010.0	8,975.4	15,082.3	8,957.5	49.8	55.8	88.95	-5,923.0	-1,351.5	969.9	864.8	105.04	9.234				
15,100.0	8,975.5	15,172.3	8,957.6	50.4	56.4	88.95	-6,013.0	-1,352.3	969.9	863.6	106.27	9.126				
15,105.0	8,975.5	15,177.3	8,957.6	50.4	56.4	88.95	-6,018.0	-1,352.3	969.9	863.5	106.34	9.120				
15,200.0	8,975.5	15,272.3	8,957.7	51.1	57.1	88.95	-6,113.0	-1,353.1	969.9	862.2	107.65	9.010				
15,295.0	8,975.6	15,367.3	8,957.8	51.8	57.7	88.95	-6,208.0	-1,353.9	969.9	860.9	108.96	8.902				
15,300.0	8,975.6	15,372.3	8,957.8	51.8	57.7	88.95	-6,213.0	-1,353.9	969.9	860.9	109.03	8.896				
15,390.0	8,975.6	15,462.3	8,957.9	52.5	58.3	88.95	-6,303.0	-1,354.7	969.9	859.6	110.27	8.796				
15,400.0	8,975.6	15,472.3	8,957.9	52.6	58.4	88.96	-6,313.0	-1,354.7	969.9	859.5	110.41	8.785				
15,485.0	8,975.7	15,557.3	8,957.9	53.2	58.9	88.96	-6,398.0	-1,355.5	969.9	858.3	111.59	8.692				
15,500.0	8,975.7	15,572.3	8,957.9	53.3	59.0	88.96	-6,413.0	-1,355.6	969.9	858.1	111.79	8.676				
15,580.0	8,975.8	15,652.3	8,958.0	53.9	59.5	88.96	-6,493.0	-1,356.2	969.9	857.0	112.90	8.590				
15,600.0	8,975.8	15,672.3	8,958.0	54.0	59.7	88.96	-6,513.0	-1,356.4	969.9	856.7	113.18	8.569				
15,675.0	8,975.8	15,747.3	8,958.1	54.6	60.1	88.96	-6,588.0	-1,357.0	969.9	855.7	114.23	8.491				
15,700.0	8,975.8	15,772.3	8,958.1	54.7	60.3	88.96	-6,613.0	-1,357.2	969.9	855.3	114.58	8.465				
15,770.0	8,975.9	15,842.3	8,958.2	55.3	60.8	88.96	-6,683.0	-1,357.8	969.9	854.3	115.55	8.393				
15,800.0	8,975.9	15,872.3	8,958.2	55.5	61.0	88.96	-6,713.0	-1,358.1	969.9	853.9	115.97	8.363				
15,865.0	8,975.9	15,937.3	8,958.2	55.9	61.4	88.96	-6,778.0	-1,358.6	969.9	853.0	116.88	8.298				
15,900.0	8,975.9	15,972.3	8,958.3	56.2	61.6	88.96	-6,813.0	-1,358.9	969.9	852.5	117.37	8.263				
15,960.0	8,976.0	16,032.3	8,958.3	56.6	62.0	88.96	-6,873.0	-1,359.4	969.9	851.7	118.21	8.205				
16,000.0	8,976.0	16,072.3	8,958.3	56.9	62.3	88.96	-6,913.0	-1,359.7	969.9	851.1	118.77	8.166				
16,055.0	8,976.0	16,127.3	8,958.4	57.3	62.7	88.96	-6,968.0	-1,360.2	969.9	850.3	119.55	8.113				
16,100.0	8,976.1	16,172.3	8,958.4	57.7	63.0	88.96	-7,013.0	-1,360.5	969.9	849.7	120.18	8.070				
16,150.0	8,976.1	16,222.3	8,958.5	58.0	63.3	88.96	-7,063.0	-1,361.0	969.9	849.0	120.88	8.023				
16,200.0	8,976.1	16,272.3	8,958.5	58.4	63.6	88.96	-7,113.0	-1,361.4	969.9	848.3	121.59	7.977				
16,245.0	8,976.2	16,317.3	8,958.5	58.7	63.9	88.97	-7,158.0	-1,361.7	969.9	847.7	122.22	7.935				
16,300.0	8,976.2	16,372.3	8,958.6	59.1	64.3	88.97	-7,213.0	-1,362.2	969.9	846.9	123.00	7.885				
16,340.0	8,976.2	16,412.3	8,958.6	59.4	64.6	88.97	-7,253.0	-1,362.5	969.9	846.3	123.56	7.849				
16,400.0	8,976.3	16,472.3	8,958.7	59.9	65.0	88.97	-7,313.0	-1,363.0	969.9	845.5	124.41	7.796				
16,435.0	8,976.3	16,507.3	8,958.7	60.1	65.2	88.97	-7,348.0	-1,363.3	969.9	845.0	124.91	7.765				
16,500.0	8,976.3	16,572.3	8,958.7	60.6	65.7	88.97	-7,413.0	-1,363.9	969.9	844.1	125.83	7.708				
16,530.0	8,976.3	16,602.3	8,958.8	60.8	65.9	88.97	-7,443.0	-1,364.1	969.9	843.6	126.25	7.682				
16,600.0	8,976.4	16,672.3	8,958.8	61.3	66.3	88.97	-7,513.0	-1,364.7	969.9	842.6	127.25	7.622				
16,625.0	8,976.4	16,697.3	8,958.8	61.5	66.5	88.97	-7,538.0	-1,364.9	969.9	842.3	127.60	7.601				
16,700.0	8,976.4	16,772.3	8,958.9	62.1	67.0	88.97	-7,613.0	-1,365.5	969.9	841.2	128.67	7.538				
16,720.0	8,976.4	16,792.3	8,958.9	62.2	67.1	88.97	-7,633.0	-1,365.7	969.9	840.9	128.95	7.521				
16,800.0	8,976.5	16,872.3	8,959.0	62.8	67.7	88.97	-7,713.0	-1,366.3	969.9	839.8	130.09	7.455				
16,815.0	8,976.5	16,887.3	8,959.0	62.9	67.8	88.97	-7,728.0	-1,366.5	969.9	839.6	130.31	7.443				
16,900.0	8,976.6	16,972.3	8,959.1	63.5	68.4	88.97	-7,813.0	-1,367.2	969.9	838.4	131.52	7.375				
16,910.0	8,976.6	16,982.3	8,959.1	63.6	68.4	88.97	-7,823.0	-1,367.2	969.9	838.2	131.66	7.367				
17,000.0	8,976.6	17,072.3	8,959.1	64.3	69.1	88.97	-7,912.0	-1,368.0	969.9	837.0	132.95	7.295				
17,005.0	8,976.6	17,077.3	8,959.2	64.3	69.1	88.97	-7,917.0	-1,368.0	969.9	836.9	133.02	7.291				
17,100.0	8,976.7	17,172.3	8,959.2	65.0	69.7	88.98	-8,012.0	-1,368.8	969.9	835.5	134.38	7.218				
17,195.0	8,976.7	17,267.3	8,959.3	65.7	70.4	88.98	-8,107.0	-1,369.6	969.9	834.2	135.74	7.145				

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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												Rule Assigned:		Warning	
Offset				Semi Major Axis		Offset Wellbore Centre		Distance		Minimum Separation					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
17,200.0	8,976.7	17,272.3	8,959.3	65.7	70.4	88.98	-8,112.9	-1,369.6	969.9	834.1	135.81	7.142			
17,290.0	8,976.8	17,362.3	8,959.4	66.4	71.0	88.98	-8,202.9	-1,370.4	969.9	832.8	137.10	7.074			
17,300.0	8,976.8	17,372.3	8,959.4	66.5	71.1	88.98	-8,212.9	-1,370.5	969.9	832.7	137.24	7.067			
17,385.0	8,976.8	17,457.3	8,959.5	67.1	71.7	88.98	-8,297.9	-1,371.2	969.9	831.4	138.47	7.005			
17,400.0	8,976.9	17,472.3	8,959.5	67.2	71.8	88.98	-8,312.9	-1,371.3	969.9	831.2	138.68	6.994			
17,480.0	8,976.9	17,552.3	8,959.5	67.8	72.4	88.98	-8,392.9	-1,372.0	969.9	830.1	139.83	6.936			
17,500.0	8,976.9	17,572.3	8,959.6	68.0	72.5	88.98	-8,412.9	-1,372.1	969.9	829.8	140.12	6.922			
17,575.0	8,977.0	17,647.3	8,959.6	68.5	73.0	88.98	-8,487.9	-1,372.7	969.9	828.7	141.20	6.869			
17,600.0	8,977.0	17,672.3	8,959.6	68.7	73.2	88.98	-8,512.9	-1,373.0	969.9	828.3	141.56	6.852			
17,670.0	8,977.0	17,742.3	8,959.7	69.2	73.7	88.98	-8,582.9	-1,373.5	969.9	827.3	142.57	6.803			
17,700.0	8,977.0	17,772.3	8,959.7	69.5	73.9	88.98	-8,612.9	-1,373.8	969.9	826.9	143.00	6.783			
17,765.0	8,977.1	17,837.3	8,959.8	69.9	74.3	88.98	-8,677.9	-1,374.3	969.9	826.0	143.94	6.738			
17,800.0	8,977.1	17,872.3	8,959.8	70.2	74.6	88.98	-8,712.9	-1,374.6	969.9	825.5	144.44	6.715			
17,860.0	8,977.1	17,932.3	8,959.8	70.6	75.0	88.98	-8,772.9	-1,375.1	969.9	824.6	145.31	6.675			
17,900.0	8,977.2	17,972.3	8,959.9	70.9	75.3	88.99	-8,812.9	-1,375.4	969.9	824.0	145.89	6.648			
17,955.0	8,977.2	18,027.3	8,959.9	71.3	75.7	88.99	-8,867.9	-1,375.9	969.9	823.2	146.69	6.612			
18,000.0	8,977.2	18,072.3	8,960.0	71.7	76.0	88.99	-8,912.9	-1,376.3	969.9	822.6	147.34	6.583			
18,050.0	8,977.2	18,122.3	8,960.0	72.1	76.3	88.99	-8,962.9	-1,376.7	969.9	821.9	148.06	6.551			
18,100.0	8,977.3	18,172.3	8,960.0	72.4	76.7	88.99	-9,012.9	-1,377.1	969.9	821.1	148.79	6.519			
18,145.0	8,977.3	18,217.3	8,960.1	72.8	77.0	88.99	-9,057.9	-1,377.5	969.9	820.5	149.44	6.490			
18,200.0	8,977.3	18,272.3	8,960.1	73.2	77.4	88.99	-9,112.9	-1,377.9	969.9	819.7	150.24	6.456			
18,240.0	8,977.4	18,312.3	8,960.1	73.5	77.7	88.99	-9,152.9	-1,378.3	969.9	819.1	150.82	6.431			
18,300.0	8,977.4	18,372.3	8,960.2	73.9	78.1	88.99	-9,212.9	-1,378.7	969.9	818.2	151.69	6.394			
18,335.0	8,977.4	18,407.3	8,960.2	74.2	78.3	88.99	-9,247.9	-1,379.0	969.9	817.7	152.20	6.373			
18,400.0	8,977.5	18,472.3	8,960.3	74.7	78.8	88.99	-9,312.9	-1,379.6	969.9	816.8	153.14	6.333			
18,430.0	8,977.5	18,502.3	8,960.3	74.9	79.0	88.99	-9,342.9	-1,379.8	969.9	816.3	153.58	6.316			
18,500.0	8,977.5	18,572.3	8,960.4	75.4	79.5	88.99	-9,412.9	-1,380.4	969.9	815.3	154.60	6.274			
18,525.0	8,977.5	18,597.3	8,960.4	75.6	79.7	88.99	-9,437.9	-1,380.6	969.9	815.0	154.96	6.259			
18,600.0	8,977.6	18,672.3	8,960.4	76.1	80.2	88.99	-9,512.9	-1,381.2	969.9	813.9	156.05	6.215			
18,620.0	8,977.6	18,692.3	8,960.5	76.3	80.3	88.99	-9,532.9	-1,381.4	969.9	813.6	156.34	6.204			
18,700.0	8,977.6	18,772.3	8,960.5	76.9	80.9	88.99	-9,612.9	-1,382.1	969.9	812.4	157.51	6.158			
18,715.0	8,977.6	18,787.3	8,960.5	77.0	81.0	88.99	-9,627.9	-1,382.2	969.9	812.2	157.73	6.149			
18,800.0	8,977.7	18,872.3	8,960.6	77.6	81.6	89.00	-9,712.9	-1,382.9	969.9	811.0	158.97	6.101			
18,810.0	8,977.7	18,882.3	8,960.6	77.7	81.7	89.00	-9,722.9	-1,383.0	969.9	810.8	159.11	6.096			
18,900.0	8,977.8	18,972.3	8,960.7	78.4	82.3	89.00	-9,812.9	-1,383.7	969.9	809.5	160.43	6.046			
18,905.0	8,977.8	18,977.3	8,960.7	78.4	82.4	89.00	-9,817.9	-1,383.8	969.9	809.4	160.50	6.043			
19,000.0	8,977.8	19,072.3	8,960.8	79.1	83.0	89.00	-9,912.9	-1,384.5	969.9	808.0	161.89	5.991			
19,095.0	8,977.9	19,167.3	8,960.8	79.8	83.7	89.00	-10,007.9	-1,385.3	969.9	806.6	163.28	5.940			
19,100.0	8,977.9	19,172.3	8,960.8	79.9	83.7	89.00	-10,012.9	-1,385.4	969.9	806.6	163.35	5.938			
19,190.0	8,977.9	19,262.3	8,960.9	80.6	84.4	89.00	-10,102.9	-1,386.1	969.9	805.3	164.67	5.890			
19,200.0	8,977.9	19,272.3	8,960.9	80.6	84.5	89.00	-10,112.9	-1,386.2	969.9	805.1	164.81	5.885			
19,285.0	8,978.0	19,357.3	8,961.0	81.3	85.1	89.00	-10,197.9	-1,386.9	969.9	803.9	166.06	5.841			
19,300.0	8,978.0	19,372.3	8,961.0	81.4	85.2	89.00	-10,212.9	-1,387.0	969.9	803.6	166.28	5.833			
19,380.0	8,978.0	19,452.3	8,961.1	82.0	85.7	89.00	-10,292.9	-1,387.7	969.9	802.5	167.45	5.792			
19,400.0	8,978.1	19,472.3	8,961.1	82.1	85.9	89.00	-10,312.9	-1,387.9	969.9	802.2	167.74	5.782			
19,475.0	8,978.1	19,547.3	8,961.1	82.7	86.4	89.00	-10,387.9	-1,388.5	969.9	801.1	168.84	5.745			
19,500.0	8,978.1	19,572.3	8,961.2	82.9	86.6	89.00	-10,412.9	-1,388.7	969.9	800.7	169.21	5.732			
19,570.0	8,978.2	19,642.3	8,961.2	83.4	87.1	89.01	-10,482.9	-1,389.3	969.9	799.7	170.24	5.697			
19,600.0	8,978.2	19,672.3	8,961.2	83.6	87.3	89.01	-10,512.9	-1,389.5	969.9	799.3	170.68	5.683			
19,665.0	8,978.2	19,737.3	8,961.3	84.1	87.8	89.01	-10,577.9	-1,390.0	969.9	798.3	171.63	5.651			
19,700.0	8,978.2	19,772.3	8,961.3	84.4	88.0	89.01	-10,612.9	-1,390.3	969.9	797.8	172.15	5.634			

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
				Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
19,760.0	8,978.3	19,832.3	8,961.4	84.8	88.5	89.01	-10,672.9	-1,390.8	969.9	796.9	173.03	5.606		
19,800.0	8,978.3	19,872.3	8,961.4	85.1	88.8	89.01	-10,712.9	-1,391.2	969.9	796.3	173.62	5.587		
19,855.0	8,978.3	19,927.3	8,961.4	85.5	89.1	89.01	-10,767.8	-1,391.6	969.9	795.5	174.43	5.561		
19,900.0	8,978.4	19,972.3	8,961.5	85.9	89.5	89.01	-10,812.8	-1,392.0	969.9	794.8	175.09	5.540		
19,950.0	8,978.4	20,022.3	8,961.5	86.2	89.8	89.01	-10,862.8	-1,392.4	969.9	794.1	175.82	5.516		
20,000.0	8,978.4	20,072.3	8,961.6	86.6	90.2	89.01	-10,912.8	-1,392.8	969.9	793.4	176.56	5.493		
20,045.0	8,978.4	20,117.3	8,961.6	87.0	90.5	89.01	-10,957.8	-1,393.2	969.9	792.7	177.22	5.473		
20,100.0	8,978.5	20,172.3	8,961.6	87.4	90.9	89.01	-11,012.8	-1,393.6	969.9	791.9	178.03	5.448		
20,140.0	8,978.5	20,212.3	8,961.7	87.7	91.2	89.01	-11,052.8	-1,394.0	969.9	791.3	178.62	5.430		
20,200.0	8,978.5	20,272.3	8,961.7	88.1	91.6	89.01	-11,112.8	-1,394.5	969.9	790.4	179.51	5.403		
20,235.0	8,978.6	20,307.3	8,961.8	88.4	91.9	89.01	-11,147.8	-1,394.8	969.9	789.9	180.02	5.388		
20,300.0	8,978.6	20,372.3	8,961.8	88.9	92.3	89.01	-11,212.8	-1,395.3	969.9	789.0	180.98	5.359		
20,330.0	8,978.6	20,402.3	8,961.8	89.1	92.6	89.01	-11,242.8	-1,395.5	969.9	788.5	181.42	5.346		
20,400.0	8,978.7	20,472.3	8,961.9	89.6	93.1	89.02	-11,312.8	-1,396.1	969.9	787.5	182.46	5.316		
20,425.0	8,978.7	20,497.3	8,961.9	89.8	93.3	89.02	-11,337.8	-1,396.3	969.9	787.1	182.83	5.305		
20,500.0	8,978.7	20,572.3	8,962.0	90.4	93.8	89.02	-11,412.8	-1,397.0	969.9	786.0	183.93	5.273		
20,520.0	8,978.7	20,592.3	8,962.0	90.5	93.9	89.02	-11,432.8	-1,397.1	969.9	785.7	184.23	5.265		
20,600.0	8,978.8	20,672.3	8,962.0	91.1	94.5	89.02	-11,512.8	-1,397.8	969.9	784.5	185.41	5.231		
20,615.0	8,978.8	20,687.3	8,962.1	91.2	94.6	89.02	-11,527.8	-1,397.9	969.9	784.3	185.63	5.225		
20,700.0	8,978.8	20,772.3	8,962.1	91.9	95.2	89.02	-11,612.8	-1,398.6	969.9	783.1	186.89	5.190		
20,710.0	8,978.8	20,782.3	8,962.1	92.0	95.3	89.02	-11,622.8	-1,398.7	969.9	782.9	187.04	5.186		
20,800.0	8,978.9	20,872.3	8,962.2	92.6	96.0	89.02	-11,712.8	-1,399.4	969.9	781.6	188.37	5.149		
20,805.0	8,978.9	20,877.3	8,962.2	92.7	96.0	89.02	-11,717.8	-1,399.5	969.9	781.5	188.44	5.147		
20,900.0	8,979.0	20,972.3	8,962.3	93.4	96.7	89.02	-11,812.8	-1,400.3	969.9	780.1	189.85	5.109		
20,995.0	8,979.0	21,067.3	8,962.4	94.1	97.4	89.02	-11,907.8	-1,401.1	969.9	778.7	191.25	5.072		
21,000.0	8,979.0	21,072.3	8,962.4	94.1	97.4	89.02	-11,912.8	-1,401.1	969.9	778.6	191.33	5.070		
21,090.0	8,979.1	21,162.3	8,962.4	94.8	98.1	89.02	-12,002.8	-1,401.8	969.9	777.3	192.66	5.034		
21,100.0	8,979.1	21,172.3	8,962.4	94.9	98.1	89.02	-12,012.8	-1,401.9	969.9	777.1	192.81	5.031		
21,185.0	8,979.1	21,257.3	8,962.5	95.5	98.8	89.02	-12,097.8	-1,402.6	969.9	775.9	194.07	4.998		
21,200.0	8,979.1	21,272.3	8,962.5	95.6	98.9	89.02	-12,112.8	-1,402.7	969.9	775.7	194.29	4.992		
21,280.0	8,979.2	21,352.3	8,962.6	96.2	99.4	89.03	-12,192.8	-1,403.4	969.9	774.5	195.48	4.962		
21,300.0	8,979.2	21,372.3	8,962.6	96.4	99.6	89.03	-12,212.8	-1,403.6	969.9	774.2	195.77	4.954		
21,375.0	8,979.2	21,447.3	8,962.7	97.0	100.1	89.03	-12,287.8	-1,404.2	969.9	773.1	196.88	4.926		
21,400.0	8,979.3	21,472.3	8,962.7	97.1	100.3	89.03	-12,312.8	-1,404.4	969.9	772.7	197.26	4.917		
21,470.0	8,979.3	21,542.3	8,962.7	97.7	100.8	89.03	-12,382.8	-1,405.0	970.0	771.7	198.29	4.891		
21,500.0	8,979.3	21,572.3	8,962.8	97.9	101.1	89.03	-12,412.8	-1,405.2	970.0	771.2	198.74	4.881		
21,565.0	8,979.4	21,637.3	8,962.8	98.4	101.5	89.03	-12,477.8	-1,405.8	970.0	770.2	199.70	4.857		
21,600.0	8,979.4	21,672.3	8,962.8	98.7	101.8	89.03	-12,512.8	-1,406.1	970.0	769.7	200.22	4.844		
21,660.0	8,979.4	21,732.3	8,962.9	99.1	102.2	89.03	-12,572.8	-1,406.6	970.0	768.8	201.11	4.823		
21,700.0	8,979.4	21,772.3	8,962.9	99.4	102.5	89.03	-12,612.8	-1,406.9	970.0	768.2	201.71	4.809		
21,755.0	8,979.5	21,827.3	8,963.0	99.8	102.9	89.03	-12,667.8	-1,407.3	970.0	767.4	202.53	4.789		
21,800.0	8,979.5	21,872.3	8,963.0	100.2	103.2	89.03	-12,712.8	-1,407.7	970.0	766.8	203.19	4.774		
21,850.0	8,979.5	21,922.3	8,963.1	100.5	103.6	89.03	-12,762.8	-1,408.1	970.0	766.0	203.94	4.756		
21,900.0	8,979.6	21,972.3	8,963.1	100.9	104.0	89.03	-12,812.8	-1,408.5	970.0	765.3	204.68	4.739		
21,945.0	8,979.6	22,017.3	8,963.1	101.3	104.3	89.03	-12,857.8	-1,408.9	970.0	764.6	205.35	4.723		
22,000.0	8,979.6	22,072.3	8,963.2	101.7	104.7	89.03	-12,912.8	-1,409.4	970.0	763.8	206.17	4.705		
22,040.0	8,979.6	22,112.3	8,963.2	102.0	105.0	89.03	-12,952.8	-1,409.7	970.0	763.2	206.76	4.691		
22,100.0	8,979.7	22,172.3	8,963.3	102.4	105.4	89.04	-13,012.8	-1,410.2	970.0	762.3	207.66	4.671		
22,135.0	8,979.7	22,207.3	8,963.3	102.7	105.7	89.04	-13,047.8	-1,410.5	970.0	761.8	208.18	4.659		
22,200.0	8,979.7	22,272.3	8,963.3	103.2	106.2	89.04	-13,112.8	-1,411.0	970.0	760.8	209.14	4.638		
22,230.0	8,979.8	22,302.3	8,963.4	103.4	106.4	89.04	-13,142.8	-1,411.3	970.0	760.4	209.59	4.628		

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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													Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
22,300.0	8,979.8	22,372.3	8,963.4	103.9	106.9	89.04	-13,212.8	-1,411.9	970.0	759.3	210.63	4.605				
22,325.0	8,979.8	22,397.3	8,963.4	104.1	107.1	89.04	-13,237.8	-1,412.1	970.0	759.0	211.00	4.597				
22,400.0	8,979.9	22,472.3	8,963.5	104.7	107.6	89.04	-13,312.8	-1,412.7	970.0	757.8	212.12	4.573				
22,420.0	8,979.9	22,492.3	8,963.5	104.8	107.8	89.04	-13,332.8	-1,412.8	970.0	757.5	212.42	4.566				
22,500.0	8,979.9	22,572.3	8,963.6	105.4	108.4	89.04	-13,412.8	-1,413.5	970.0	756.4	213.61	4.541				
22,515.0	8,979.9	22,587.3	8,963.6	105.6	108.5	89.04	-13,427.8	-1,413.6	970.0	756.1	213.84	4.536				
22,600.0	8,980.0	22,672.3	8,963.7	106.2	109.1	89.04	-13,512.8	-1,414.3	970.0	754.9	215.10	4.509				
22,610.0	8,980.0	22,682.3	8,963.7	106.3	109.2	89.04	-13,522.8	-1,414.4	970.0	754.7	215.25	4.506				
22,700.0	8,980.0	22,772.3	8,963.7	106.9	109.8	89.04	-13,612.8	-1,415.2	970.0	753.4	216.59	4.478				
22,705.0	8,980.0	22,777.3	8,963.7	107.0	109.9	89.04	-13,617.8	-1,415.2	970.0	753.3	216.67	4.477				
22,800.0	8,980.1	22,872.3	8,963.8	107.7	110.6	89.04	-13,712.7	-1,416.0	970.0	751.9	218.08	4.448				
22,895.0	8,980.2	22,967.3	8,963.9	108.4	111.3	89.05	-13,807.7	-1,416.8	970.0	750.5	219.50	4.419				
22,900.0	8,980.2	22,972.3	8,963.9	108.5	111.3	89.05	-13,812.7	-1,416.8	970.0	750.4	219.58	4.417				
22,990.0	8,980.2	23,062.3	8,964.0	109.1	112.0	89.05	-13,902.7	-1,417.6	970.0	749.0	220.92	4.391				
23,000.0	8,980.2	23,072.3	8,964.0	109.2	112.0	89.05	-13,912.7	-1,417.6	970.0	748.9	221.07	4.388				
23,085.0	8,980.3	23,157.3	8,964.0	109.9	112.7	89.05	-13,997.7	-1,418.3	970.0	747.6	222.34	4.363				
23,100.0	8,980.3	23,172.3	8,964.1	110.0	112.8	89.05	-14,012.7	-1,418.5	970.0	747.4	222.56	4.358				
23,180.0	8,980.3	23,252.3	8,964.1	110.6	113.4	89.05	-14,092.7	-1,419.1	970.0	746.2	223.76	4.335				
23,200.0	8,980.3	23,272.3	8,964.1	110.7	113.5	89.05	-14,112.7	-1,419.3	970.0	745.9	224.05	4.329				
23,275.0	8,980.4	23,347.3	8,964.2	111.3	114.1	89.05	-14,187.7	-1,419.9	970.0	744.8	225.17	4.308				
23,300.0	8,980.4	23,372.3	8,964.2	111.5	114.2	89.05	-14,212.7	-1,420.1	970.0	744.4	225.55	4.300				
23,370.0	8,980.4	23,442.3	8,964.3	112.0	114.8	89.05	-14,282.7	-1,420.7	970.0	743.4	226.59	4.281				
23,400.0	8,980.5	23,472.3	8,964.3	112.2	115.0	89.05	-14,312.7	-1,421.0	970.0	742.9	227.04	4.272				
23,465.0	8,980.5	23,537.3	8,964.3	112.7	115.5	89.05	-14,377.7	-1,421.5	970.0	742.0	228.01	4.254				
23,500.0	8,980.5	23,572.3	8,964.4	113.0	115.7	89.05	-14,412.7	-1,421.8	970.0	741.4	228.54	4.244				
23,560.0	8,980.6	23,632.3	8,964.4	113.4	116.2	89.05	-14,472.7	-1,422.3	970.0	740.5	229.43	4.228				
23,600.0	8,980.6	23,672.3	8,964.5	113.7	116.5	89.05	-14,512.7	-1,422.6	970.0	739.9	230.03	4.217				
23,655.0	8,980.6	23,727.3	8,964.5	114.2	116.9	89.05	-14,567.7	-1,423.1	970.0	739.1	230.85	4.202				
23,700.0	8,980.6	23,772.3	8,964.5	114.5	117.2	89.05	-14,612.7	-1,423.4	970.0	738.4	231.53	4.189				
23,750.0	8,980.7	23,822.3	8,964.6	114.9	117.6	89.06	-14,662.7	-1,423.9	970.0	737.7	232.28	4.176				
23,800.0	8,980.7	23,872.3	8,964.6	115.3	117.9	89.06	-14,712.7	-1,424.3	970.0	737.0	233.02	4.163				
23,845.0	8,980.7	23,917.3	8,964.7	115.6	118.3	89.06	-14,757.7	-1,424.6	970.0	736.3	233.70	4.151				
23,900.0	8,980.8	23,972.3	8,964.7	116.0	118.7	89.06	-14,812.7	-1,425.1	970.0	735.5	234.52	4.136				
23,940.0	8,980.8	24,012.3	8,964.7	116.3	119.0	89.06	-14,852.7	-1,425.4	970.0	734.9	235.12	4.125				
24,000.0	8,980.8	24,072.3	8,964.8	116.8	119.4	89.06	-14,912.7	-1,425.9	970.0	734.0	236.02	4.110				
24,035.0	8,980.8	24,107.3	8,964.8	117.0	119.7	89.06	-14,947.7	-1,426.2	970.0	733.4	236.54	4.101				
24,100.0	8,980.9	24,172.3	8,964.9	117.5	120.1	89.06	-15,012.7	-1,426.7	970.0	732.5	237.51	4.084				
24,130.0	8,980.9	24,202.3	8,964.9	117.8	120.4	89.06	-15,042.7	-1,427.0	970.0	732.0	237.96	4.076				
24,168.5	8,980.9	24,240.7	8,964.9	118.0	120.7	89.06	-15,081.2	-1,427.3	970.0	731.4	238.54	4.066				
24,200.0	8,980.9	24,272.3	8,964.9	118.3	120.9	89.06	-15,112.7	-1,427.6	970.0	731.0	239.01	4.058				
24,225.0	8,981.0	24,297.3	8,965.0	118.5	121.1	89.06	-15,137.7	-1,427.8	970.0	730.6	239.38	4.052				
24,227.6	8,981.0	24,299.8	8,965.0	118.5	121.1	89.06	-15,140.3	-1,427.8	970.0	730.6	239.42	4.051				
24,298.5	8,981.0	24,345.4	8,965.0	119.0	121.4	89.06	-15,185.8	-1,428.2	970.3	729.9	240.43	4.036 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 #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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													Rule Assigned:			
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)						
0.0	0.0	0.0	0.0	3.0	3.0	-0.92	150.1	-2.4	150.2							
95.0	95.0	91.0	91.0	3.0	3.0	-0.92	150.1	-2.4	150.1	144.1	6.03	24.875				
100.0	100.0	96.0	96.0	3.0	3.0	-0.92	150.1	-2.4	150.1	144.1	6.04	24.855				
190.0	190.0	186.0	186.0	3.1	3.1	-0.92	150.1	-2.4	150.1	143.9	6.25	24.013				
200.0	200.0	196.0	196.0	3.1	3.1	-0.92	150.1	-2.4	150.1	143.8	6.29	23.881				
285.0	285.0	281.0	281.0	3.3	3.2	-0.92	150.1	-2.4	150.1	143.6	6.50	23.109				
300.0	300.0	296.0	296.0	3.3	3.3	-0.92	150.1	-2.4	150.1	143.6	6.54	22.962				
380.0	380.0	376.0	376.0	3.4	3.4	-0.92	150.1	-2.4	150.1	143.4	6.73	22.294				
400.0	400.0	396.0	396.0	3.4	3.4	-0.92	150.1	-2.4	150.1	143.3	6.79	22.121				
475.0	475.0	471.0	471.0	3.5	3.5	-0.92	150.1	-2.4	150.1	143.2	6.97	21.542				
500.0	500.0	496.0	496.0	3.5	3.5	-0.92	150.1	-2.4	150.1	143.1	7.03	21.346				
570.0	570.0	566.0	566.0	3.6	3.6	-0.92	150.1	-2.4	150.1	142.9	7.20	20.843				
600.0	600.0	596.0	596.0	3.6	3.6	-0.92	150.1	-2.4	150.1	142.8	7.28	20.627				
665.0	665.0	661.0	661.0	3.7	3.7	-0.92	150.1	-2.4	150.1	142.7	7.43	20.191				
700.0	700.0	696.0	696.0	3.8	3.8	-0.92	150.1	-2.4	150.1	142.6	7.52	19.958				
760.0	760.0	756.0	756.0	3.8	3.8	-0.92	150.1	-2.4	150.1	142.5	7.67	19.583				
800.0	800.0	796.0	796.0	3.9	3.9	-0.92	150.1	-2.4	150.1	142.4	7.76	19.335				
855.0	855.0	851.0	851.0	4.0	3.9	-0.92	150.1	-2.4	150.1	142.2	7.90	19.012				
900.0	900.0	896.0	896.0	4.0	4.0	-0.92	150.1	-2.4	150.1	142.1	8.01	18.752				
950.0	950.0	946.0	946.0	4.1	4.1	-0.92	150.1	-2.4	150.1	142.0	8.12	18.476				
1,000.0	1,000.0	996.0	996.0	4.1	4.1	-0.92	150.1	-2.4	150.1	141.9	8.25	18.205				
1,045.0	1,045.0	1,041.0	1,041.0	4.2	4.2	-0.92	150.1	-2.4	150.1	141.8	8.35	17.972				
1,100.0	1,100.0	1,096.0	1,096.0	4.2	4.2	-0.92	150.1	-2.4	150.1	141.6	8.49	17.691				
1,140.0	1,140.0	1,136.0	1,136.0	4.3	4.3	-0.92	150.1	-2.4	150.1	141.5	8.58	17.495				
1,200.0	1,200.0	1,196.0	1,196.0	4.4	4.4	-0.92	150.1	-2.4	150.1	141.4	8.72	17.207				
1,235.0	1,235.0	1,231.0	1,231.0	4.4	4.4	-0.92	150.1	-2.4	150.1	141.3	8.81	17.045				
1,300.0	1,300.0	1,296.0	1,296.0	4.5	4.5	-0.92	150.1	-2.4	150.1	141.2	8.96	16.750				
1,330.0	1,330.0	1,326.0	1,326.0	4.5	4.5	-0.92	150.1	-2.4	150.1	141.1	9.03	16.619				
1,400.0	1,400.0	1,396.0	1,396.0	4.6	4.6	-0.92	150.1	-2.4	150.1	140.9	9.20	16.318				
1,425.0	1,425.0	1,421.0	1,421.0	4.6	4.6	-0.92	150.1	-2.4	150.1	140.9	9.26	16.215				
1,500.0	1,500.0	1,496.0	1,496.0	4.7	4.7	-0.92	150.1	-2.4	150.1	140.7	9.44	15.909				
1,520.0	1,520.0	1,515.5	1,515.5	4.7	4.7	45.08	150.1	-2.4	150.1	140.6	9.49	15.814				
1,600.0	1,600.0	1,592.9	1,592.9	4.9	4.9	45.96	151.1	-1.2	149.9	140.2	9.72	15.427				
1,615.0	1,615.0	1,607.4	1,607.4	4.9	4.9	46.26	151.4	-0.8	149.8	140.0	9.77	15.335				
1,700.0	1,699.8	1,689.3	1,689.2	5.1	5.1	48.76	154.1	2.4	149.5	139.4	10.10	14.806				
1,710.0	1,709.8	1,700.0	1,699.8	5.1	5.1	49.19	154.5	3.0	149.5	139.4	10.14	14.742				
1,722.6	1,722.4	1,711.0	1,710.9	5.2	5.1	49.65	155.0	3.6	149.5	139.3	10.19	14.676	CC, ES			
1,800.0	1,799.5	1,785.0	1,784.6	5.4	5.3	53.40	159.1	8.6	149.9	139.4	10.49	14.292				
1,805.0	1,804.4	1,789.8	1,789.3	5.4	5.3	53.67	159.4	8.9	149.9	139.4	10.51	14.271				
1,900.0	1,898.7	1,879.6	1,878.5	5.7	5.6	59.67	166.0	17.1	152.1	141.2	10.86	13.998				
1,950.1	1,948.2	1,926.5	1,924.9	5.8	5.7	63.30	170.1	22.2	154.4	143.4	11.00	14.031				
1,995.0	1,992.6	1,968.2	1,966.1	5.8	5.9	66.71	174.2	27.2	157.5	146.3	11.13	14.151				
2,000.0	1,997.5	1,972.9	1,970.7	5.8	5.9	67.09	174.7	27.8	157.9	146.7	11.14	14.170				
2,090.0	2,086.4	2,055.8	2,052.3	6.1	6.2	73.67	184.1	39.2	167.9	156.4	11.48	14.632				
2,100.0	2,096.3	2,064.9	2,061.2	6.1	6.2	74.37	185.2	40.6	169.3	157.8	11.51	14.706				
2,185.0	2,180.3	2,142.1	2,136.8	6.3	6.5	79.94	195.4	53.1	183.5	171.7	11.84	15.497				
2,200.0	2,195.1	2,155.7	2,150.0	6.4	6.5	80.86	197.3	55.5	186.5	174.6	11.90	15.665				
2,280.0	2,274.1	2,229.2	2,221.4	6.6	6.8	85.42	208.4	69.0	203.8	191.6	12.23	16.667				
2,300.0	2,293.8	2,248.3	2,239.9	6.7	6.8	86.49	211.3	72.6	208.5	196.1	12.32	16.927				
2,375.0	2,367.9	2,319.8	2,309.3	6.9	7.0	90.12	222.2	86.0	226.4	213.8	12.65	17.904				
2,400.0	2,392.6	2,343.6	2,332.4	7.0	7.1	91.21	225.9	90.5	232.6	219.8	12.76	18.226				

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
2,470.0	2,461.7	2,410.4	2,397.2	7.2	7.3	93.98	236.1	103.0	250.2	237.1	13.09	19.116		
2,500.0	2,491.4	2,439.0	2,425.0	7.3	7.4	95.05	240.4	108.4	257.9	244.7	13.23	19.488		
2,565.0	2,555.6	2,501.0	2,485.1	7.5	7.6	97.17	249.9	120.0	274.9	261.3	13.55	20.279		
2,600.0	2,590.1	2,534.4	2,517.5	7.7	7.8	98.20	255.0	126.2	284.1	270.4	13.73	20.691		
2,660.0	2,649.4	2,591.7	2,573.1	7.9	8.0	99.83	263.8	137.0	300.2	286.2	14.04	21.380		
2,700.0	2,688.9	2,629.8	2,610.1	8.0	8.1	100.83	269.6	144.1	311.1	296.8	14.25	21.824		
2,755.0	2,743.2	2,682.3	2,661.0	8.2	8.3	102.09	277.6	154.0	326.1	311.6	14.55	22.416		
2,800.0	2,787.7	2,725.2	2,702.7	8.4	8.5	103.04	284.2	162.0	338.5	323.7	14.79	22.884		
2,850.0	2,837.1	2,772.9	2,748.9	8.6	8.7	104.02	291.5	170.9	352.4	337.3	15.07	23.386		
2,900.0	2,886.5	2,820.6	2,795.2	8.7	8.8	104.92	298.8	179.9	366.4	351.0	15.35	23.871		
2,945.0	2,930.9	2,863.5	2,836.9	8.9	9.0	105.68	305.4	187.9	379.0	363.4	15.60	24.291		
3,000.0	2,985.2	2,916.0	2,887.8	9.1	9.2	106.54	313.4	197.8	394.6	378.6	15.92	24.787		
3,040.0	3,024.7	2,954.1	2,924.8	9.3	9.4	107.13	319.2	204.9	405.9	389.7	16.15	25.133		
3,100.0	3,084.0	3,011.4	2,980.3	9.5	9.6	107.94	328.0	215.6	423.0	406.5	16.50	25.636		
3,135.0	3,118.6	3,044.8	3,012.7	9.6	9.7	108.39	333.1	221.9	433.0	416.3	16.71	25.917		
3,200.0	3,182.8	3,106.8	3,072.9	9.9	10.0	109.17	342.6	233.5	451.6	434.5	17.09	26.423		
3,230.0	3,212.4	3,135.4	3,100.6	10.0	10.1	109.51	346.9	238.9	460.2	443.0	17.27	26.646		
3,300.0	3,281.5	3,202.1	3,165.4	10.3	10.4	110.25	357.1	251.4	480.4	462.7	17.69	27.151		
3,325.0	3,306.2	3,226.0	3,188.6	10.4	10.5	110.50	360.8	255.9	487.6	469.8	17.85	27.324		
3,400.0	3,380.3	3,297.5	3,258.0	10.7	10.8	111.21	371.7	269.3	509.4	491.0	18.30	27.827		
3,420.0	3,400.0	3,316.6	3,276.5	10.8	10.9	111.39	374.7	272.9	515.2	496.7	18.43	27.956		
3,500.0	3,479.1	3,392.9	3,350.5	11.1	11.2	112.07	386.3	287.2	538.4	519.5	18.92	28.454		
3,515.0	3,493.9	3,407.2	3,364.4	11.1	11.3	112.19	388.5	289.9	542.8	523.8	19.02	28.544		
3,600.0	3,577.8	3,488.3	3,443.1	11.5	11.6	112.84	400.9	305.1	567.6	548.0	19.55	29.036		
3,610.0	3,587.7	3,497.9	3,452.4	11.5	11.7	112.91	402.4	306.8	570.5	550.9	19.61	29.092		
3,700.0	3,676.6	3,583.7	3,535.6	11.9	12.0	113.54	415.5	322.9	596.8	576.6	20.18	29.577		
3,705.0	3,681.5	3,588.5	3,540.3	11.9	12.1	113.57	416.2	323.8	598.3	578.1	20.21	29.603		
3,800.0	3,775.4	3,679.1	3,628.2	12.3	12.5	114.17	430.1	340.8	626.1	605.3	20.81	30.081		
3,895.0	3,869.2	3,769.7	3,716.1	12.7	12.9	114.71	443.9	357.8	654.0	632.6	21.42	30.528		
3,900.0	3,874.1	3,774.5	3,720.8	12.7	12.9	114.74	444.7	358.7	655.5	634.0	21.46	30.551		
3,990.0	3,963.0	3,860.3	3,804.1	13.1	13.3	115.21	457.8	374.8	682.0	660.0	22.04	30.947		
4,000.0	3,972.9	3,869.9	3,813.3	13.1	13.3	115.27	459.3	376.6	684.9	662.8	22.10	30.989		
4,085.0	4,056.9	3,950.9	3,892.0	13.5	13.7	115.68	471.7	391.8	710.0	687.3	22.66	31.339		
4,100.0	4,071.7	3,965.3	3,905.9	13.5	13.8	115.75	473.9	394.5	714.4	691.7	22.75	31.399		
4,180.0	4,150.7	4,041.6	3,979.9	13.9	14.1	116.10	485.5	408.8	738.0	714.8	23.28	31.697		
4,209.2	4,179.5	4,069.4	4,006.9	14.0	14.2	116.23	489.8	414.0	746.7	723.2	23.48	31.803		
4,275.0	4,244.6	4,132.3	4,067.9	14.3	14.5	116.66	499.4	425.8	766.0	742.1	23.90	32.045		
4,300.0	4,269.3	4,156.2	4,091.1	14.4	14.6	116.80	503.0	430.3	773.2	749.1	24.06	32.132		
4,370.0	4,338.7	4,223.2	4,156.1	14.7	14.9	117.15	513.3	442.8	793.2	768.7	24.52	32.355		
4,400.0	4,368.4	4,252.0	4,184.1	14.8	15.1	117.28	517.7	448.2	801.7	777.0	24.71	32.443		
4,465.0	4,433.0	4,314.4	4,244.6	15.0	15.3	117.52	527.2	459.9	819.9	794.7	25.13	32.626		
4,500.0	4,467.8	4,348.0	4,277.3	15.2	15.5	117.63	532.4	466.2	829.5	804.1	25.35	32.717		
4,560.0	4,527.5	4,405.8	4,333.3	15.4	15.8	117.78	541.2	477.1	845.8	820.0	25.73	32.866		
4,600.0	4,567.3	4,444.3	4,370.7	15.6	15.9	117.86	547.1	484.3	856.5	830.5	25.99	32.956		
4,655.0	4,622.1	4,497.4	4,422.2	15.8	16.2	117.94	555.2	494.2	871.0	844.6	26.33	33.077		
4,700.0	4,667.0	4,542.2	4,465.7	15.9	16.4	117.97	562.1	502.6	882.7	856.1	26.61	33.169		
4,750.0	4,716.9	4,610.4	4,532.0	16.1	16.7	117.97	571.9	514.7	894.9	867.8	27.05	33.079		
4,800.0	4,766.8	4,679.3	4,599.5	16.3	17.0	117.96	580.9	525.7	905.8	878.3	27.50	32.933		
4,845.0	4,811.7	4,742.0	4,661.1	16.4	17.3	117.95	588.1	534.6	914.5	886.6	27.89	32.787		
4,900.0	4,866.7	4,819.3	4,737.5	16.6	17.7	117.93	595.9	544.1	923.7	895.3	28.35	32.582		
4,940.0	4,906.7	4,876.0	4,793.7	16.7	17.9	117.91	600.7	550.0	929.4	900.7	28.66	32.426		

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

ConocoPhillips
Anticollision Report

Company: DELAWARE BASIN WEST
Project: ATLAS PROSPECT (NM-E)
Reference Site: FLAMING SNAIL FED COM PROJECT
Site Error: 0.0 usft
Reference Well: FLAMING SNAIL FEDERAL COM #703H
Well Error: 3.0 usft
Reference Wellbore: OWB
Reference Design: PWP1
Local Co-ordinate Reference: Well FLAMING SNAIL FEDERAL COM #703H
TVD Reference: *RKB 32ft + GL 3129.3ft @ 3161.3usft
MD Reference: *RKB 32ft + GL 3129.3ft @ 3161.3usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Output errors are at: 2.00 sigma
Database: EDT 15 Central Prod
Offset TVD Reference: Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS
Reference: Offset Semi Major Axis Highside 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) Toolface (°) +N/-S (usft) +E/-W (usft) Centres (usft) Ellipses (usft) Separation (usft) Factor

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

ConocoPhillips
Anticollision Report

Company: DELAWARE BASIN WEST
Local Co-ordinate Reference: Well FLAMING SNAIL FEDERAL COM #703H
Project: ATLAS PROSPECT (NM-E)
Reference Site: FLAMING SNAIL FED COM PROJECT
Site Error: 0.0 usft
Reference Well: FLAMING SNAIL FEDERAL COM #703H
Well Error: 3.0 usft
Reference Wellbore: OWB
Reference Design: PWP1

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS
Rule Assigned:
Measured Depth, Vertical Depth, Measured Depth, Vertical Depth, Reference, Offset, Highside Toolface, Offset Wellbore Centre, Distance, Minimum Separation, Separation Factor, Warning

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

ConocoPhillips Anticollision Report

Company: DELAWARE BASIN WEST; Project: ATLAS PROSPECT (NM-E); Reference Site: FLAMING SNAIL FED COM PROJECT; Site Error: 0.0 usft; Reference Well: FLAMING SNAIL FEDERAL COM #703H; Well Error: 3.0 usft; Reference Wellbore: OWB; Reference Design: PWP1; Local Co-ordinate Reference: Well FLAMING SNAIL FEDERAL COM #703H; TVD Reference: *RKB 32ft + GL 3129.3ft @ 3161.3usft; MD Reference: *RKB 32ft + GL 3129.3ft @ 3161.3usft; North Reference: Grid; Survey Calculation Method: Minimum Curvature; Output errors are at: 2.00 sigma; Database: EDT 15 Central Prod; Offset TVD Reference: Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #801H - OWB - PWP1; Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9316-r.5 MWD+IFR1+MS; Rule Assigned: Distance; Columns: Measured Depth (usft), Vertical Depth (usft), Reference Depth (usft), Vertical Depth (usft), Reference Offset (usft), Semi Major Axis Offset (usft), Highside Toolface (degrees), Offset Wellbore Centre (+N/-S, +E/-W), Distance (Centres, Ellipses), Minimum Separation, Separation Factor, Warning. Data rows show depth and separation values for various wellbore sections.

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP1	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9257-r.5 MWD+IFR1+MS											Rule Assigned:		Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Minimum Separation (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	3.0	3.0	-12.23		149.5	-32.4	153.0				
95.0	95.0	90.4	90.4	3.0	3.0	-12.23		149.5	-32.4	153.0	146.9	6.03	25.349	
100.0	100.0	95.4	95.4	3.0	3.0	-12.23		149.5	-32.4	153.0	146.9	6.04	25.329	
190.0	190.0	185.4	185.4	3.1	3.1	-12.23		149.5	-32.4	153.0	146.7	6.25	24.474	
200.0	200.0	195.4	195.4	3.1	3.1	-12.23		149.5	-32.4	153.0	146.7	6.28	24.339	
285.0	285.0	280.4	280.4	3.3	3.2	-12.23		149.5	-32.4	153.0	146.5	6.49	23.554	
300.0	300.0	295.4	295.4	3.3	3.3	-12.23		149.5	-32.4	153.0	146.4	6.54	23.405	
380.0	380.0	375.4	375.4	3.4	3.4	-12.23		149.5	-32.4	153.0	146.2	6.73	22.726	
400.0	400.0	395.4	395.4	3.4	3.4	-12.23		149.5	-32.4	153.0	146.2	6.78	22.550	
475.0	475.0	470.4	470.4	3.5	3.5	-12.23		149.5	-32.4	153.0	146.0	6.97	21.961	
500.0	500.0	495.4	495.4	3.5	3.5	-12.23		149.5	-32.4	153.0	145.9	7.03	21.763	
570.0	570.0	565.4	565.4	3.6	3.6	-12.23		149.5	-32.4	153.0	145.8	7.20	21.252	
600.0	600.0	595.4	595.4	3.6	3.6	-12.23		149.5	-32.4	153.0	145.7	7.27	21.033	
665.0	665.0	660.4	660.4	3.7	3.7	-12.23		149.5	-32.4	153.0	145.5	7.43	20.592	
700.0	700.0	695.4	695.4	3.8	3.8	-12.23		149.5	-32.4	153.0	145.5	7.52	20.355	
760.0	760.0	755.4	755.4	3.8	3.8	-12.23		149.5	-32.4	153.0	145.3	7.66	19.975	
800.0	800.0	795.4	795.4	3.9	3.9	-12.23		149.5	-32.4	153.0	145.2	7.76	19.723	
855.0	855.0	850.4	850.4	4.0	3.9	-12.23		149.5	-32.4	153.0	145.1	7.89	19.397	
900.0	900.0	895.4	895.4	4.0	4.0	-12.23		149.5	-32.4	153.0	145.0	8.00	19.133	
950.0	950.0	945.4	945.4	4.1	4.1	-12.23		149.5	-32.4	153.0	144.9	8.11	18.854	
1,000.0	1,000.0	995.4	995.4	4.1	4.1	-12.23		149.5	-32.4	153.0	144.7	8.23	18.579	
1,045.0	1,045.0	1,040.4	1,040.4	4.2	4.2	-12.23		149.5	-32.4	153.0	144.6	8.34	18.343	
1,100.0	1,100.0	1,095.4	1,095.4	4.2	4.2	-12.23		149.5	-32.4	153.0	144.5	8.47	18.058	
1,140.0	1,140.0	1,135.4	1,135.4	4.3	4.3	-12.23		149.5	-32.4	153.0	144.4	8.56	17.860	
1,200.0	1,200.0	1,195.4	1,195.4	4.4	4.4	-12.23		149.5	-32.4	153.0	144.3	8.71	17.568	
1,235.0	1,235.0	1,230.4	1,230.4	4.4	4.4	-12.23		149.5	-32.4	153.0	144.2	8.79	17.405	
1,300.0	1,300.0	1,295.4	1,295.4	4.5	4.5	-12.23		149.5	-32.4	153.0	144.0	8.94	17.106	
1,330.0	1,330.0	1,325.4	1,325.4	4.5	4.5	-12.23		149.5	-32.4	153.0	144.0	9.01	16.973	
1,400.0	1,400.0	1,395.4	1,395.4	4.6	4.6	-12.23		149.5	-32.4	153.0	143.8	9.18	16.669	
1,425.0	1,425.0	1,420.4	1,420.4	4.6	4.6	-12.23		149.5	-32.4	153.0	143.7	9.24	16.564	
1,500.0	1,500.0	1,495.4	1,495.4	4.7	4.7	-12.23		149.5	-32.4	153.0	143.6	9.41	16.255	
1,520.0	1,520.0	1,514.6	1,514.6	4.7	4.7	33.74		149.5	-32.4	153.0	143.5	9.47	16.146	
1,543.8	1,543.8	1,537.3	1,537.3	4.8	4.8	33.78		149.7	-32.5	152.9	143.4	9.55	16.009 CC	
1,600.0	1,600.0	1,590.7	1,590.7	4.9	4.9	33.96		150.8	-33.0	153.0	143.2	9.76	15.679	
1,615.0	1,615.0	1,604.9	1,604.9	4.9	4.9	34.04		151.2	-33.2	153.0	143.2	9.82	15.578	
1,700.0	1,699.8	1,685.7	1,685.6	5.1	5.1	34.63		155.0	-34.9	153.4	143.2	10.22	15.009 ES	
1,710.0	1,709.8	1,695.2	1,695.0	5.1	5.2	34.72		155.6	-35.2	153.4	143.2	10.27	14.946	
1,800.0	1,799.5	1,780.7	1,780.2	5.4	5.4	35.72		162.0	-38.1	154.2	143.5	10.69	14.416	
1,805.0	1,804.4	1,785.4	1,785.0	5.4	5.4	35.78		162.4	-38.3	154.2	143.5	10.72	14.389	
1,900.0	1,898.7	1,875.6	1,874.6	5.7	5.7	37.21		171.9	-42.6	155.4	144.2	11.18	13.904	
1,950.1	1,948.2	1,923.2	1,921.6	5.8	5.8	38.10		177.9	-45.3	156.2	144.9	11.36	13.752	
1,995.0	1,992.6	1,965.8	1,963.7	5.8	5.9	38.92		183.9	-48.0	157.4	145.8	11.53	13.653	
2,000.0	1,997.5	1,970.5	1,968.4	5.8	6.0	39.00		184.6	-48.4	157.5	146.0	11.54	13.645	
2,090.0	2,086.4	2,056.1	2,052.7	6.1	6.2	40.36		198.5	-54.7	162.0	150.1	11.89	13.624	
2,100.0	2,096.3	2,066.1	2,062.4	6.1	6.2	40.49		200.2	-55.5	162.6	150.7	11.93	13.631	
2,185.0	2,180.3	2,150.9	2,145.7	6.3	6.4	41.63		214.9	-62.2	167.9	155.6	12.31	13.638	
2,200.0	2,195.1	2,165.8	2,160.3	6.4	6.4	41.82		217.5	-63.3	168.8	156.4	12.38	13.634	
2,280.0	2,274.1	2,245.6	2,238.7	6.6	6.7	42.81		231.4	-69.6	173.9	161.1	12.78	13.603	
2,300.0	2,293.8	2,265.6	2,258.2	6.7	6.7	43.05		234.9	-71.2	175.2	162.3	12.88	13.596	
2,375.0	2,367.9	2,340.4	2,331.7	6.9	7.0	43.91		247.8	-77.1	179.9	166.7	13.27	13.560	
2,400.0	2,392.6	2,365.3	2,356.1	7.0	7.1	44.19		252.2	-79.1	181.6	168.2	13.40	13.549	

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

ConocoPhillips
Anticollision Report

Summary information table including Company (DELAWARE BASIN WEST), Project (ATLAS PROSPECT (NM-E)), Reference Site (FLAMING SNAIL FED COM PROJECT), and various reference and error values.

Main data table for Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #802H - OWB - PWP1. Includes columns for Measured Reference/Offset, Vertical Depth, Reference/Offset, Highside Toolface, Offset Wellbore Centre, Distance, Minimum Separation, and Warning.

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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													Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning			
		Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)						
22,325.0	8,979.8	23,431.9	9,793.0	104.1	105.4	-173.72	-13,246.1	-352.3	822.7	605.2	217.49	3.783				
22,400.0	8,979.9	23,506.9	9,793.0	104.7	106.0	-173.72	-13,321.1	-352.9	822.7	604.0	218.65	3.762				
22,420.0	8,979.9	23,526.9	9,793.0	104.8	106.2	-173.72	-13,341.1	-353.1	822.7	603.7	218.96	3.757				
22,500.0	8,979.9	23,606.9	9,793.1	105.4	106.8	-173.72	-13,421.1	-353.8	822.7	602.5	220.20	3.736				
22,515.0	8,979.9	23,621.9	9,793.1	105.6	106.9	-173.72	-13,436.1	-353.9	822.7	602.2	220.43	3.732				
22,600.0	8,980.0	23,706.9	9,793.1	106.2	107.5	-173.72	-13,521.1	-354.6	822.7	600.9	221.75	3.710				
22,610.0	8,980.0	23,716.9	9,793.1	106.3	107.6	-173.72	-13,531.1	-354.7	822.7	600.8	221.90	3.707				
22,700.0	8,980.0	23,806.9	9,793.2	106.9	108.3	-173.72	-13,621.1	-355.4	822.7	599.4	223.30	3.684				
22,705.0	8,980.0	23,811.9	9,793.2	107.0	108.3	-173.72	-13,626.1	-355.5	822.7	599.3	223.37	3.683				
22,800.0	8,980.1	23,906.9	9,793.2	107.7	109.0	-173.72	-13,721.1	-356.2	822.6	597.8	224.85	3.659				
22,895.0	8,980.2	24,001.9	9,793.3	108.4	109.7	-173.72	-13,816.1	-357.0	822.6	596.3	226.32	3.635				
22,900.0	8,980.2	24,006.9	9,793.3	108.5	109.8	-173.72	-13,821.1	-357.1	822.6	596.2	226.40	3.634				
22,990.0	8,980.2	24,096.9	9,793.3	109.1	110.5	-173.72	-13,911.1	-357.8	822.6	594.8	227.79	3.611				
23,000.0	8,980.2	24,106.9	9,793.3	109.2	110.5	-173.72	-13,921.1	-357.9	822.6	594.7	227.95	3.609				
23,085.0	8,980.3	24,191.9	9,793.4	109.9	111.2	-173.72	-14,006.1	-358.6	822.6	593.4	229.26	3.588				
23,100.0	8,980.3	24,206.9	9,793.4	110.0	111.3	-173.72	-14,021.1	-358.7	822.6	593.1	229.49	3.584				
23,180.0	8,980.3	24,286.9	9,793.4	110.6	111.9	-173.72	-14,101.1	-359.4	822.6	591.9	230.73	3.565				
23,200.0	8,980.3	24,306.9	9,793.4	110.7	112.1	-173.72	-14,121.1	-359.6	822.6	591.6	231.04	3.560				
23,275.0	8,980.4	24,381.9	9,793.5	111.3	112.6	-173.72	-14,196.1	-360.2	822.6	590.4	232.21	3.543				
23,300.0	8,980.4	24,406.9	9,793.5	111.5	112.8	-173.72	-14,221.1	-360.4	822.6	590.0	232.59	3.537				
23,370.0	8,980.4	24,476.9	9,793.5	112.0	113.3	-173.72	-14,291.1	-361.0	822.6	588.9	233.68	3.520				
23,400.0	8,980.5	24,506.9	9,793.5	112.2	113.6	-173.72	-14,321.1	-361.2	822.6	588.5	234.15	3.513				
23,465.0	8,980.5	24,571.9	9,793.6	112.7	114.1	-173.72	-14,386.1	-361.8	822.6	587.4	235.15	3.498				
23,500.0	8,980.5	24,606.9	9,793.6	113.0	114.3	-173.72	-14,421.1	-362.0	822.6	586.9	235.70	3.490				
23,560.0	8,980.6	24,666.9	9,793.6	113.4	114.8	-173.72	-14,481.1	-362.5	822.6	586.0	236.63	3.476				
23,600.0	8,980.6	24,706.9	9,793.6	113.7	115.1	-173.72	-14,521.0	-362.9	822.6	585.3	237.25	3.467				
23,655.0	8,980.6	24,761.9	9,793.7	114.2	115.5	-173.72	-14,576.0	-363.3	822.6	584.5	238.10	3.455				
23,700.0	8,980.6	24,806.9	9,793.7	114.5	115.8	-173.72	-14,621.0	-363.7	822.6	583.8	238.80	3.445				
23,750.0	8,980.7	24,856.9	9,793.7	114.9	116.2	-173.72	-14,671.0	-364.1	822.6	583.0	239.57	3.433				
23,800.0	8,980.7	24,906.9	9,793.7	115.3	116.6	-173.72	-14,721.0	-364.5	822.6	582.2	240.35	3.422				
23,845.0	8,980.7	24,951.9	9,793.8	115.6	116.9	-173.72	-14,766.0	-364.9	822.6	581.5	241.05	3.412				
23,900.0	8,980.8	25,006.9	9,793.8	116.0	117.4	-173.72	-14,821.0	-365.4	822.6	580.7	241.90	3.400				
23,940.0	8,980.8	25,046.9	9,793.8	116.3	117.7	-173.72	-14,861.0	-365.7	822.6	580.0	242.52	3.392				
24,000.0	8,980.8	25,106.9	9,793.8	116.8	118.1	-173.72	-14,921.0	-366.2	822.5	579.1	243.45	3.379				
24,035.0	8,980.8	25,141.9	9,793.9	117.0	118.4	-173.72	-14,956.0	-366.5	822.5	578.6	244.00	3.371				
24,100.0	8,980.9	25,206.9	9,793.9	117.5	118.9	-173.72	-15,021.0	-367.0	822.5	577.5	245.01	3.357				
24,130.0	8,980.9	25,236.9	9,793.9	117.8	119.1	-173.72	-15,051.0	-367.3	822.5	577.1	245.47	3.351				
24,168.5	8,980.9	25,275.4	9,793.9	118.0	119.4	-173.72	-15,089.5	-367.6	822.5	576.5	246.07	3.343				
24,200.0	8,980.9	25,306.9	9,793.9	118.3	119.6	-173.72	-15,121.0	-367.8	822.5	576.0	246.56	3.336				
24,225.0	8,981.0	25,331.9	9,794.0	118.5	119.8	-173.72	-15,146.0	-368.0	822.5	575.6	246.94	3.331				
24,298.5	8,981.0	25,405.4	9,794.0	119.0	120.4	-173.72	-15,219.5	-368.7	822.5	574.4	248.08	3.316 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 #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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													Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor			
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)					
0.0	0.0	0.0	0.0	3.0	3.0	-22.70		148.9	-62.3	161.5						
95.0	95.0	90.4	90.4	3.0	3.0	-22.70		148.9	-62.3	161.4	155.4	6.03	26.747			
100.0	100.0	95.4	95.4	3.0	3.0	-22.70		148.9	-62.3	161.4	155.4	6.04	26.726			
190.0	190.0	185.4	185.4	3.1	3.1	-22.70		148.9	-62.3	161.4	155.2	6.25	25.826			
200.0	200.0	195.4	195.4	3.1	3.1	-22.70		148.9	-62.3	161.4	155.1	6.28	25.685			
285.0	285.0	280.4	280.4	3.3	3.2	-22.70		148.9	-62.3	161.4	154.9	6.49	24.861			
300.0	300.0	295.4	295.4	3.3	3.3	-22.70		148.9	-62.3	161.4	154.9	6.53	24.704			
380.0	380.0	375.4	375.4	3.4	3.4	-22.70		148.9	-62.3	161.4	154.7	6.73	23.993			
400.0	400.0	395.4	395.4	3.4	3.4	-22.70		148.9	-62.3	161.4	154.6	6.78	23.809			
475.0	475.0	470.4	470.4	3.5	3.5	-22.70		148.9	-62.3	161.4	154.4	6.96	23.193			
500.0	500.0	495.4	495.4	3.5	3.5	-22.70		148.9	-62.3	161.4	154.4	7.02	22.985			
570.0	570.0	565.4	565.4	3.6	3.6	-22.70		148.9	-62.3	161.4	154.2	7.19	22.453			
600.0	600.0	595.4	595.4	3.6	3.6	-22.70		148.9	-62.3	161.4	154.1	7.26	22.224			
665.0	665.0	660.4	660.4	3.7	3.7	-22.70		148.9	-62.3	161.4	154.0	7.42	21.764			
700.0	700.0	695.4	695.4	3.8	3.8	-22.70		148.9	-62.3	161.4	153.9	7.50	21.518			
760.0	760.0	755.4	755.4	3.8	3.8	-22.70		148.9	-62.3	161.4	153.8	7.64	21.122			
800.0	800.0	795.4	795.4	3.9	3.9	-22.70		148.9	-62.3	161.4	153.7	7.74	20.860			
855.0	855.0	850.4	850.4	4.0	3.9	-22.70		148.9	-62.3	161.4	153.5	7.87	20.520			
900.0	900.0	895.4	895.4	4.0	4.0	-22.70		148.9	-62.3	161.4	153.4	7.97	20.245			
950.0	950.0	945.4	945.4	4.1	4.1	-22.70		148.9	-62.3	161.4	153.3	8.09	19.955			
1,000.0	1,000.0	995.4	995.4	4.1	4.1	-22.70		148.9	-62.3	161.4	153.2	8.21	19.669			
1,045.0	1,045.0	1,040.4	1,040.4	4.2	4.2	-22.70		148.9	-62.3	161.4	153.1	8.31	19.424			
1,100.0	1,100.0	1,095.4	1,095.4	4.2	4.2	-22.70		148.9	-62.3	161.4	153.0	8.44	19.128			
1,140.0	1,140.0	1,135.4	1,135.4	4.3	4.3	-22.70		148.9	-62.3	161.4	152.9	8.53	18.923			
1,200.0	1,200.0	1,195.4	1,195.4	4.4	4.4	-22.70		148.9	-62.3	161.4	152.7	8.67	18.619			
1,235.0	1,235.0	1,230.4	1,230.4	4.4	4.4	-22.70		148.9	-62.3	161.4	152.7	8.75	18.450			
1,300.0	1,300.0	1,295.4	1,295.4	4.5	4.5	-22.70		148.9	-62.3	161.4	152.5	8.90	18.139			
1,330.0	1,330.0	1,325.4	1,325.4	4.5	4.5	-22.70		148.9	-62.3	161.4	152.4	8.97	18.001			
1,400.0	1,400.0	1,395.4	1,395.4	4.6	4.6	-22.70		148.9	-62.3	161.4	152.3	9.13	17.685			
1,425.0	1,425.0	1,420.4	1,420.4	4.6	4.6	-22.70		148.9	-62.3	161.4	152.2	9.18	17.576			
1,500.0	1,500.0	1,495.4	1,495.4	4.7	4.7	-22.70		148.9	-62.3	161.4	152.1	9.35	17.255			
1,520.0	1,520.0	1,514.8	1,514.8	4.7	4.7	23.26		148.9	-62.3	161.4	152.0	9.41	17.152			
1,600.0	1,600.0	1,591.7	1,591.7	4.9	4.8	23.13		149.5	-63.7	160.9	151.2	9.67	16.631			
1,615.0	1,615.0	1,606.2	1,606.1	4.9	4.8	23.08		149.7	-64.1	160.7	151.0	9.74	16.509			
1,700.0	1,699.8	1,687.9	1,687.7	5.1	5.0	22.66		151.3	-68.0	159.5	149.4	10.12	15.771			
1,710.0	1,709.8	1,697.5	1,697.3	5.1	5.0	22.60		151.5	-68.6	159.4	149.2	10.16	15.682			
1,800.0	1,799.5	1,784.0	1,783.5	5.4	5.2	21.85		154.3	-75.3	157.4	146.8	10.58	14.874			
1,805.0	1,804.4	1,788.8	1,788.3	5.4	5.3	21.80		154.5	-75.7	157.3	146.7	10.61	14.828			
1,900.0	1,898.7	1,880.0	1,878.9	5.7	5.5	20.65		158.5	-85.6	154.5	143.5	11.08	13.947			
1,950.1	1,948.2	1,928.1	1,926.5	5.8	5.7	19.90		161.1	-91.8	152.8	141.6	11.28	13.555			
1,995.0	1,992.6	1,971.2	1,969.1	5.8	5.8	19.08		163.7	-98.0	151.5	140.1	11.46	13.225			
2,000.0	1,997.5	1,976.0	1,973.8	5.8	5.8	18.98		164.0	-98.8	151.4	139.9	11.48	13.191			
2,077.1	2,073.7	2,049.9	2,046.6	6.0	6.1	17.15		169.0	-110.9	150.5	138.7	11.87	12.679 CC			
2,090.0	2,086.4	2,062.3	2,058.7	6.1	6.1	16.80		169.9	-113.1	150.6	138.6	11.94	12.608			
2,100.0	2,096.3	2,071.9	2,068.1	6.1	6.1	16.52		170.6	-114.9	150.6	138.6	12.00	12.556 ES			
2,185.0	2,180.3	2,153.1	2,147.4	6.3	6.4	13.86		177.2	-130.8	152.3	139.8	12.48	12.205			
2,200.0	2,195.1	2,167.4	2,161.4	6.4	6.5	13.35		178.5	-133.8	152.9	140.3	12.57	12.163			
2,280.0	2,274.1	2,245.4	2,237.1	6.6	6.8	10.45		185.6	-151.1	156.8	143.7	13.07	11.998			
2,300.0	2,293.8	2,265.3	2,256.4	6.7	6.8	9.73		187.5	-155.5	157.9	144.7	13.19	11.963			
2,375.0	2,367.9	2,339.8	2,328.7	6.9	7.1	7.10		194.3	-172.2	162.1	148.4	13.69	11.839			
2,400.0	2,392.6	2,364.7	2,352.8	7.0	7.1	6.26		196.6	-177.7	163.6	149.7	13.86	11.802			

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

ConocoPhillips Anticollision Report

Company: DELAWARE BASIN WEST Local Co-ordinate Reference: Well FLAMING SNAIL FEDERAL COM #703H
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 #703H Survey Calculation Method: Minimum Curvature
Well Error: 3.0 usft Output errors are at 2.00 sigma
Reference Wellbore: OWB 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
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS
Reference: Offset Semi Major Axis Highside Offset Wellbore Centre Distance Between Centres Between Ellipses Minimum Separation Separation Factor Warning
Measured Depth Vertical Depth Measured Depth Vertical Depth Reference Offset Reference Offset +N/-S +E/-W Centres Ellipses Separation Factor

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

ConocoPhillips Anticollision Report

Company: DELAWARE BASIN WEST Local Co-ordinate Reference: Well FLAMING SNAIL FEDERAL COM #703H
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 #703H Survey Calculation Method: Minimum Curvature
Well Error: 3.0 usft Output errors are at 2.00 sigma
Reference Wellbore: OWB 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
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS
Reference Offset Semi Major Axis Highside Offset Wellbore Centre Distance Between Centres Minimum Separation Separation Factor Warning
Measured Vertical Measured Vertical Reference Offset Reference Offset Highside Offset Wellbore Centre Distance Between Centres Minimum Separation Separation Factor Warning
Depth Depth Depth Depth (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft) (usft)

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

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	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: 0-r.5 SDI_KPR_WL_NS-CT, 1500-r.5 MWD+IFR1, 9326-r.5 MWD+IFR1+MS														
Rule Assigned:														
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Semi Major Axis (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
								+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
22,300.0	8,979.8	23,452.9	9,775.6	103.9	107.7	135.38		-13,213.7	-1,231.9	1,124.5	910.6	213.86	5.258	
22,325.0	8,979.8	23,477.9	9,775.6	104.1	107.8	135.38		-13,238.7	-1,232.1	1,124.5	910.3	214.24	5.249	
22,400.0	8,979.9	23,552.9	9,775.6	104.7	108.4	135.38		-13,313.7	-1,232.7	1,124.5	909.1	215.39	5.221	
22,420.0	8,979.9	23,572.9	9,775.7	104.8	108.6	135.38		-13,333.7	-1,232.9	1,124.5	908.8	215.69	5.214	
22,500.0	8,979.9	23,652.9	9,775.7	105.4	109.1	135.38		-13,413.7	-1,233.6	1,124.5	907.6	216.91	5.184	
22,515.0	8,979.9	23,667.9	9,775.7	105.6	109.3	135.38		-13,428.7	-1,233.7	1,124.5	907.4	217.14	5.179	
22,600.0	8,980.0	23,752.9	9,775.8	106.2	109.9	135.38		-13,513.7	-1,234.4	1,124.5	906.1	218.44	5.148	
22,610.0	8,980.0	23,762.9	9,775.8	106.3	110.0	135.38		-13,523.7	-1,234.5	1,124.5	905.9	218.60	5.144	
22,700.0	8,980.0	23,852.9	9,775.9	106.9	110.6	135.38		-13,613.7	-1,235.2	1,124.5	904.6	219.97	5.112	
22,705.0	8,980.0	23,857.9	9,775.9	107.0	110.7	135.38		-13,618.7	-1,235.3	1,124.5	904.5	220.05	5.110	
22,800.0	8,980.1	23,952.9	9,775.9	107.7	111.4	135.38		-13,713.6	-1,236.1	1,124.6	903.0	221.50	5.077	
22,895.0	8,980.2	24,047.9	9,776.0	108.4	112.1	135.38		-13,808.6	-1,236.8	1,124.6	901.6	222.96	5.044	
22,900.0	8,980.2	24,052.9	9,776.0	108.5	112.1	135.38		-13,813.6	-1,236.9	1,124.6	901.5	223.03	5.042	
22,990.0	8,980.2	24,142.9	9,776.1	109.1	112.8	135.38		-13,903.6	-1,237.6	1,124.6	900.2	224.41	5.011	
23,000.0	8,980.2	24,152.9	9,776.1	109.2	112.8	135.38		-13,913.6	-1,237.7	1,124.6	900.0	224.56	5.008	
23,085.0	8,980.3	24,237.9	9,776.1	109.9	113.5	135.38		-13,998.6	-1,238.4	1,124.6	898.7	225.87	4.979	
23,100.0	8,980.3	24,252.9	9,776.1	110.0	113.6	135.38		-14,013.6	-1,238.5	1,124.6	898.5	226.10	4.974	
23,180.0	8,980.3	24,332.9	9,776.2	110.6	114.2	135.38		-14,093.6	-1,239.2	1,124.6	897.3	227.32	4.947	
23,200.0	8,980.3	24,352.9	9,776.2	110.7	114.3	135.38		-14,113.6	-1,239.4	1,124.6	897.0	227.63	4.941	
23,275.0	8,980.4	24,427.9	9,776.3	111.3	114.9	135.38		-14,188.6	-1,240.0	1,124.6	895.8	228.77	4.916	
23,300.0	8,980.4	24,452.9	9,776.3	111.5	115.1	135.38		-14,213.6	-1,240.2	1,124.6	895.4	229.16	4.908	
23,370.0	8,980.4	24,522.9	9,776.3	112.0	115.6	135.38		-14,283.6	-1,240.8	1,124.6	894.4	230.23	4.885	
23,400.0	8,980.5	24,552.9	9,776.4	112.2	115.8	135.38		-14,313.6	-1,241.0	1,124.6	893.9	230.69	4.875	
23,465.0	8,980.5	24,617.9	9,776.4	112.7	116.3	135.38		-14,378.6	-1,241.6	1,124.6	892.9	231.68	4.854	
23,500.0	8,980.5	24,652.9	9,776.4	113.0	116.6	135.38		-14,413.6	-1,241.8	1,124.6	892.4	232.22	4.843	
23,560.0	8,980.6	24,712.9	9,776.5	113.4	117.0	135.38		-14,473.6	-1,242.3	1,124.6	891.5	233.14	4.824	
23,600.0	8,980.6	24,752.9	9,776.5	113.7	117.3	135.38		-14,513.6	-1,242.7	1,124.6	890.9	233.75	4.811	
23,655.0	8,980.6	24,807.9	9,776.5	114.2	117.7	135.38		-14,568.6	-1,243.1	1,124.6	890.0	234.60	4.794	
23,700.0	8,980.6	24,852.9	9,776.6	114.5	118.0	135.38		-14,613.6	-1,243.5	1,124.6	889.4	235.29	4.780	
23,750.0	8,980.7	24,902.9	9,776.6	114.9	118.4	135.38		-14,663.6	-1,243.9	1,124.6	888.6	236.05	4.764	
23,800.0	8,980.7	24,952.9	9,776.7	115.3	118.8	135.38		-14,713.6	-1,244.3	1,124.6	887.8	236.82	4.749	
23,845.0	8,980.7	24,997.9	9,776.7	115.6	119.1	135.38		-14,758.6	-1,244.7	1,124.7	887.1	237.51	4.735	
23,900.0	8,980.8	25,052.9	9,776.7	116.0	119.5	135.38		-14,813.6	-1,245.2	1,124.7	886.3	238.35	4.718	
23,940.0	8,980.8	25,092.9	9,776.8	116.3	119.8	135.38		-14,853.6	-1,245.5	1,124.7	885.7	238.96	4.706	
24,000.0	8,980.8	25,152.9	9,776.8	116.8	120.3	135.38		-14,913.6	-1,246.0	1,124.7	884.8	239.88	4.688	
24,035.0	8,980.8	25,187.9	9,776.8	117.0	120.5	135.38		-14,948.6	-1,246.3	1,124.7	884.2	240.42	4.678	
24,100.0	8,980.9	25,252.9	9,776.9	117.5	121.0	135.39		-15,013.6	-1,246.8	1,124.7	883.3	241.42	4.659	
24,130.0	8,980.9	25,282.9	9,776.9	117.8	121.2	135.39		-15,043.6	-1,247.1	1,124.7	882.8	241.88	4.650	
24,168.5	8,980.9	25,321.3	9,776.9	118.0	121.5	135.39		-15,082.1	-1,247.4	1,124.7	882.2	242.47	4.638	
24,200.0	8,980.9	25,352.9	9,776.9	118.3	121.8	135.39		-15,113.6	-1,247.6	1,124.7	881.7	242.95	4.629	
24,225.0	8,981.0	25,377.9	9,777.0	118.5	121.9	135.39		-15,138.6	-1,247.8	1,124.7	881.4	243.33	4.622	
24,225.0	8,981.0	25,377.9	9,777.0	118.5	121.9	135.39		-15,138.6	-1,247.8	1,124.7	881.4	243.33	4.622	
24,298.5	8,981.0	25,430.7	9,777.0	119.0	122.3	135.39		-15,191.4	-1,248.3	1,124.9	880.5	244.34	4.604 SF	

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

ConocoPhillips
Anticollision Report

Table with 4 columns: Company, Project, Reference Site, Site Error, Reference Well, Well Error, Reference Wellbore, Reference Design, Local Co-ordinate Reference, TVD Reference, MD Reference, North Reference, Survey Calculation Method, Output errors are at, Database, Offset TVD Reference.

Main data table with columns: Offset Design, Survey Program, Reference, Vertical, Measured Depth, Offset Vertical, Semi Major Axis Reference, Semi Major Axis Offset, Highside Toolface, Offset Wellbore Centre (+N/-S, +E/-W), Distance (Between Centres, Between Ellipses), Minimum Separation, Separation Factor, Warning, Offset Site Error, Offset Well Error.

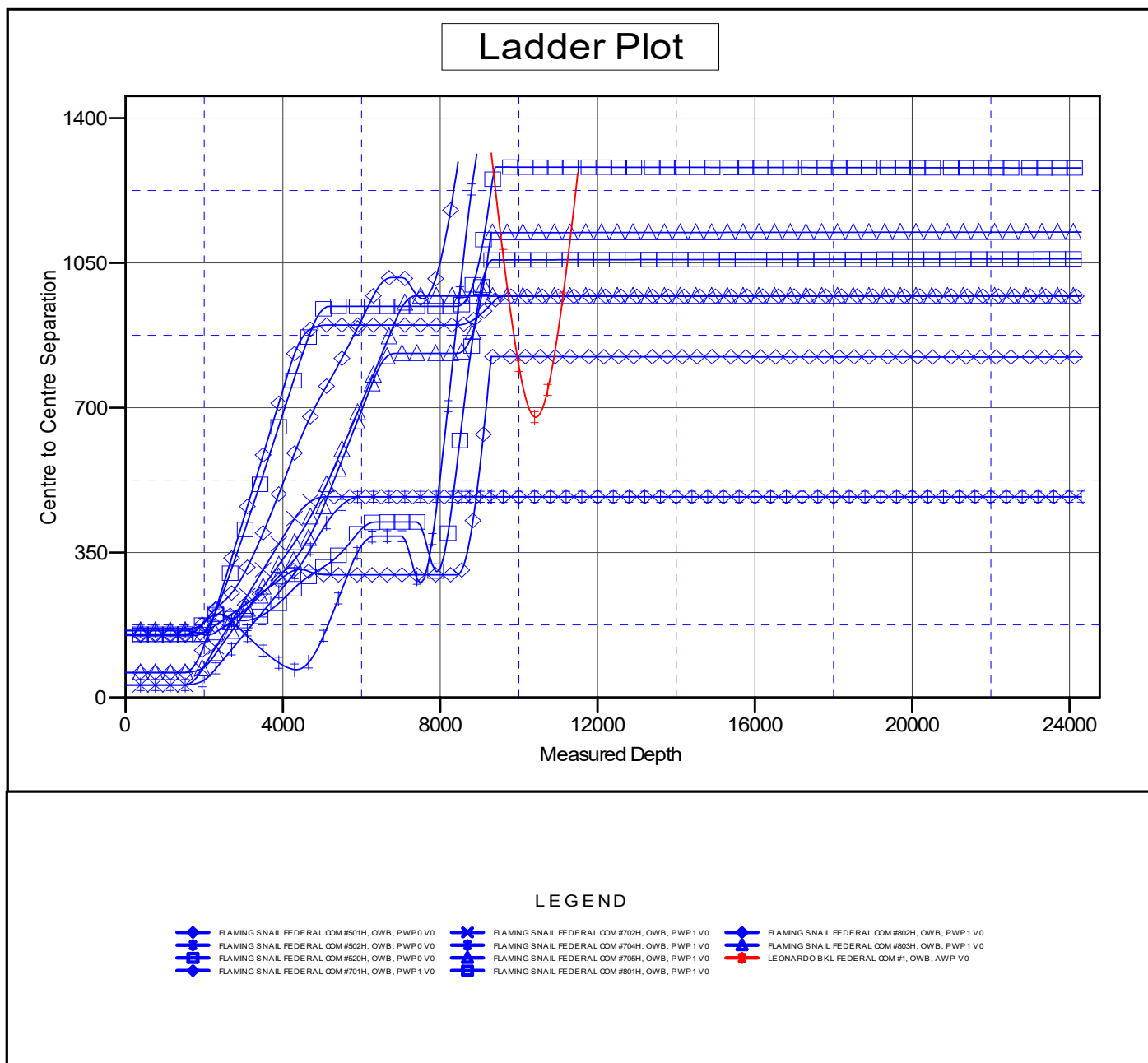
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 #703H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.08°



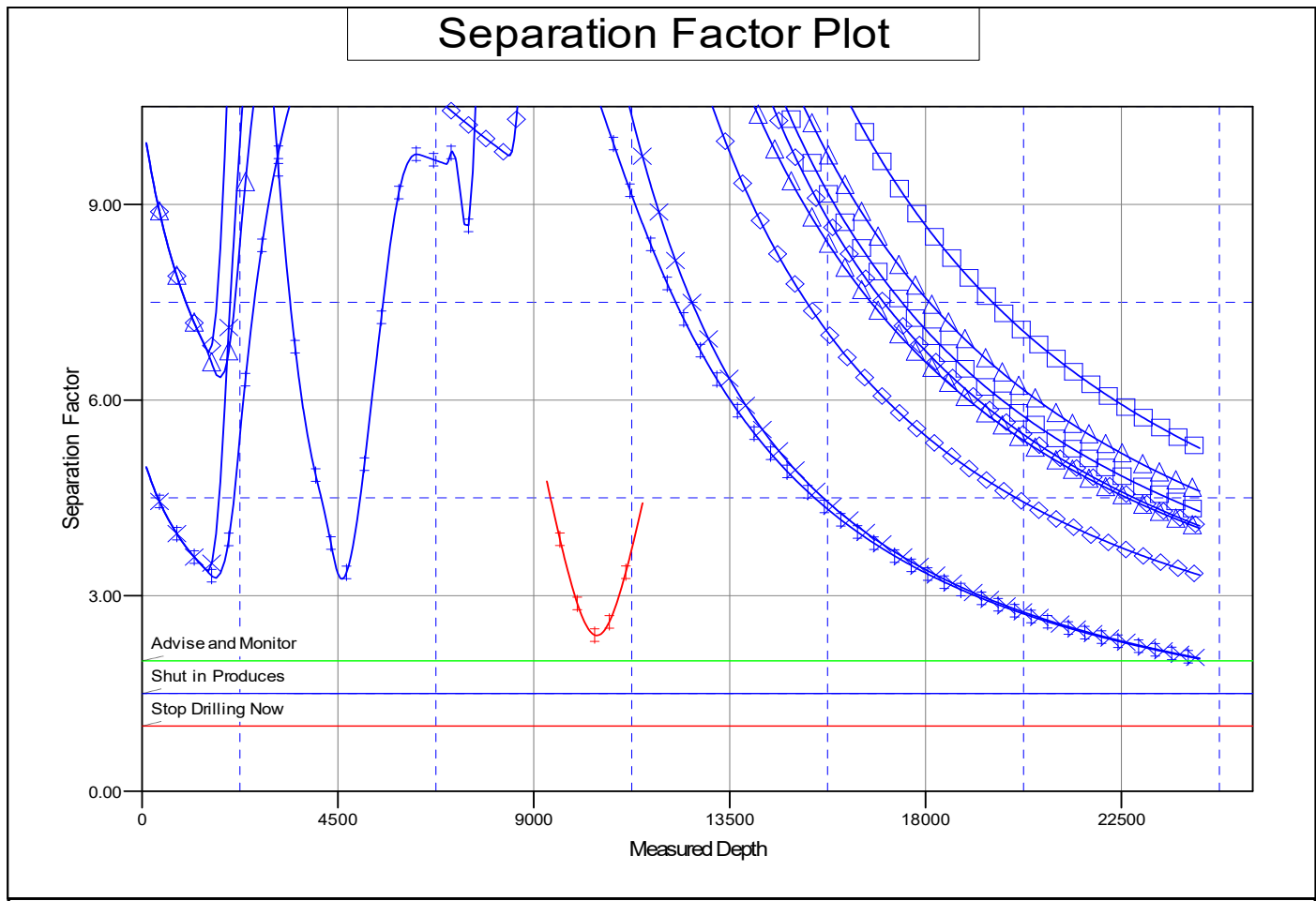
CC - Min centre to center distance or convergent point, SF - min separation factor, ES - min ellipse separation

ConocoPhillips Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 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 #703H
 Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
 Grid Convergence at Surface is: 0.08°



LEGEND

FLAMING SNAIL FEDERAL COM #501H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #702H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #802H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #502H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #704H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #803H, OWB, PWP1 V0
FLAMING SNAIL FEDERAL COM #520H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM #705H, OWB, PWP1 V0	LEONARDO BKL FEDERAL COM #1, OWB, AWP V0
FLAMING SNAIL FEDERAL COM #701H, OWB, PWP1 V0	FLAMING SNAIL FEDERAL COM #801H, 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 #703H**

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 #703H
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 #703H	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 #703H					
Well Position	+N/-S	-547.5 usft	Northing:	402,474.20 usft	Latitude:	32° 6' 23.168 N
	+E/-W	4,342.9 usft	Easting:	544,654.80 usft	Longitude:	104° 11' 20.819 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	47,317.45827577

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	181.73

Plan Survey Tool Program	Date	9/23/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	1,500.0 PWP1 (OWB)	r.5 SDI_KPR_WL_NS-CT SDI Keeper Wireline Gyrocomp	
2	1,500.0	8,432.4 PWP1 (OWB)	r.5 MWD+IFR1 OWSG MWD + IFR1 rev.5	
3	8,432.4	24,298.5 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 #703H
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 #703H	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	
1,950.1	9.00	314.04	1,948.2	24.5	-25.4	2.00	2.00	0.00	314.04	
4,209.2	9.00	314.04	4,179.5	270.2	-279.5	0.00	0.00	0.00	0.00	
5,109.4	0.00	0.00	5,076.0	319.3	-330.2	1.00	-1.00	0.00	180.00	
8,432.4	0.00	0.00	8,399.0	319.3	-330.2	0.00	0.00	0.00	0.00	
9,332.1	89.97	180.47	8,972.0	-253.3	-334.9	10.00	10.00	-19.96	180.47	
24,168.5	89.97	180.47	8,980.9	-15,089.2	-457.5	0.00	0.00	0.00	0.00	
24,298.5	89.97	180.47	8,981.0	-15,219.2	-458.6	0.00	0.00	0.00	0.00	PBHL (FLAMING SN/

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	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	314.04	1,600.0	1.2	-1.3	-1.2	2.00	2.00	0.00
1,700.0	4.00	314.04	1,699.8	4.9	-5.0	-4.7	2.00	2.00	0.00
1,800.0	6.00	314.04	1,799.5	10.9	-11.3	-10.6	2.00	2.00	0.00
1,900.0	8.00	314.04	1,898.7	19.4	-20.0	-18.8	2.00	2.00	0.00
1,950.1	9.00	314.04	1,948.2	24.5	-25.4	-23.8	2.00	2.00	0.00
Start 2259.1 hold at 1950.1 MD									
2,000.0	9.00	314.04	1,997.5	30.0	-31.0	-29.0	0.00	0.00	0.00
2,100.0	9.00	314.04	2,096.3	40.8	-42.2	-39.5	0.00	0.00	0.00
2,200.0	9.00	314.04	2,195.1	51.7	-53.5	-50.1	0.00	0.00	0.00
2,300.0	9.00	314.04	2,293.8	62.6	-64.7	-60.6	0.00	0.00	0.00
2,400.0	9.00	314.04	2,392.6	73.5	-76.0	-71.1	0.00	0.00	0.00
2,500.0	9.00	314.04	2,491.4	84.3	-87.2	-81.7	0.00	0.00	0.00
2,600.0	9.00	314.04	2,590.1	95.2	-98.5	-92.2	0.00	0.00	0.00
2,700.0	9.00	314.04	2,688.9	106.1	-109.7	-102.7	0.00	0.00	0.00
2,800.0	9.00	314.04	2,787.7	117.0	-121.0	-113.3	0.00	0.00	0.00
2,900.0	9.00	314.04	2,886.5	127.8	-132.2	-123.8	0.00	0.00	0.00
3,000.0	9.00	314.04	2,985.2	138.7	-143.5	-134.3	0.00	0.00	0.00
3,100.0	9.00	314.04	3,084.0	149.6	-154.7	-144.9	0.00	0.00	0.00
3,200.0	9.00	314.04	3,182.8	160.5	-166.0	-155.4	0.00	0.00	0.00
3,300.0	9.00	314.04	3,281.5	171.4	-177.2	-165.9	0.00	0.00	0.00
3,400.0	9.00	314.04	3,380.3	182.2	-188.5	-176.5	0.00	0.00	0.00
3,500.0	9.00	314.04	3,479.1	193.1	-199.7	-187.0	0.00	0.00	0.00
3,600.0	9.00	314.04	3,577.8	204.0	-210.9	-197.5	0.00	0.00	0.00
3,700.0	9.00	314.04	3,676.6	214.9	-222.2	-208.1	0.00	0.00	0.00
3,800.0	9.00	314.04	3,775.4	225.7	-233.4	-218.6	0.00	0.00	0.00
3,900.0	9.00	314.04	3,874.1	236.6	-244.7	-229.1	0.00	0.00	0.00
4,000.0	9.00	314.04	3,972.9	247.5	-255.9	-239.7	0.00	0.00	0.00
4,100.0	9.00	314.04	4,071.7	258.4	-267.2	-250.2	0.00	0.00	0.00
4,209.2	9.00	314.04	4,179.5	270.2	-279.5	-261.7	0.00	0.00	0.00
Start Drop -1.00									
4,300.0	8.09	314.04	4,269.3	279.6	-289.2	-270.8	1.00	-1.00	0.00
4,400.0	7.09	314.04	4,368.4	288.8	-298.7	-279.7	1.00	-1.00	0.00
4,500.0	6.09	314.04	4,467.8	296.8	-306.9	-287.4	1.00	-1.00	0.00
4,600.0	5.09	314.04	4,567.3	303.6	-313.9	-294.0	1.00	-1.00	0.00
4,700.0	4.09	314.04	4,667.0	309.1	-319.7	-299.4	1.00	-1.00	0.00
4,800.0	3.09	314.04	4,766.8	313.5	-324.2	-303.6	1.00	-1.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,900.0	2.09	314.04	4,866.7	316.6	-327.5	-306.6	1.00	-1.00	0.00
5,000.0	1.09	314.04	4,966.6	318.6	-329.4	-308.5	1.00	-1.00	0.00
5,109.4	0.00	0.00	5,076.0	319.3	-330.2	-309.2	1.00	-1.00	0.00
Start 3323.0 hold at 5109.4 MD									
5,200.0	0.00	0.00	5,166.6	319.3	-330.2	-309.2	0.00	0.00	0.00
5,300.0	0.00	0.00	5,266.6	319.3	-330.2	-309.2	0.00	0.00	0.00
5,400.0	0.00	0.00	5,366.6	319.3	-330.2	-309.2	0.00	0.00	0.00
5,500.0	0.00	0.00	5,466.6	319.3	-330.2	-309.2	0.00	0.00	0.00
5,600.0	0.00	0.00	5,566.6	319.3	-330.2	-309.2	0.00	0.00	0.00
5,700.0	0.00	0.00	5,666.6	319.3	-330.2	-309.2	0.00	0.00	0.00
5,800.0	0.00	0.00	5,766.6	319.3	-330.2	-309.2	0.00	0.00	0.00
5,900.0	0.00	0.00	5,866.6	319.3	-330.2	-309.2	0.00	0.00	0.00
6,000.0	0.00	0.00	5,966.6	319.3	-330.2	-309.2	0.00	0.00	0.00
6,100.0	0.00	0.00	6,066.6	319.3	-330.2	-309.2	0.00	0.00	0.00
6,200.0	0.00	0.00	6,166.6	319.3	-330.2	-309.2	0.00	0.00	0.00
6,300.0	0.00	0.00	6,266.6	319.3	-330.2	-309.2	0.00	0.00	0.00
6,400.0	0.00	0.00	6,366.6	319.3	-330.2	-309.2	0.00	0.00	0.00
6,500.0	0.00	0.00	6,466.6	319.3	-330.2	-309.2	0.00	0.00	0.00
6,600.0	0.00	0.00	6,566.6	319.3	-330.2	-309.2	0.00	0.00	0.00
6,700.0	0.00	0.00	6,666.6	319.3	-330.2	-309.2	0.00	0.00	0.00
6,800.0	0.00	0.00	6,766.6	319.3	-330.2	-309.2	0.00	0.00	0.00
6,900.0	0.00	0.00	6,866.6	319.3	-330.2	-309.2	0.00	0.00	0.00
7,000.0	0.00	0.00	6,966.6	319.3	-330.2	-309.2	0.00	0.00	0.00
7,100.0	0.00	0.00	7,066.6	319.3	-330.2	-309.2	0.00	0.00	0.00
7,200.0	0.00	0.00	7,166.6	319.3	-330.2	-309.2	0.00	0.00	0.00
7,300.0	0.00	0.00	7,266.6	319.3	-330.2	-309.2	0.00	0.00	0.00
7,400.0	0.00	0.00	7,366.6	319.3	-330.2	-309.2	0.00	0.00	0.00
7,500.0	0.00	0.00	7,466.6	319.3	-330.2	-309.2	0.00	0.00	0.00
7,600.0	0.00	0.00	7,566.6	319.3	-330.2	-309.2	0.00	0.00	0.00
7,700.0	0.00	0.00	7,666.6	319.3	-330.2	-309.2	0.00	0.00	0.00
7,800.0	0.00	0.00	7,766.6	319.3	-330.2	-309.2	0.00	0.00	0.00
7,900.0	0.00	0.00	7,866.6	319.3	-330.2	-309.2	0.00	0.00	0.00
8,000.0	0.00	0.00	7,966.6	319.3	-330.2	-309.2	0.00	0.00	0.00
8,100.0	0.00	0.00	8,066.6	319.3	-330.2	-309.2	0.00	0.00	0.00
8,200.0	0.00	0.00	8,166.6	319.3	-330.2	-309.2	0.00	0.00	0.00
8,300.0	0.00	0.00	8,266.6	319.3	-330.2	-309.2	0.00	0.00	0.00
8,400.0	0.00	0.00	8,366.6	319.3	-330.2	-309.2	0.00	0.00	0.00
8,432.4	0.00	0.00	8,399.0	319.3	-330.2	-309.2	0.00	0.00	0.00
Start DLS 10.00 TFO 180.47									
8,450.0	1.76	180.47	8,416.6	319.0	-330.2	-308.9	10.00	10.00	0.00
8,500.0	6.76	180.47	8,466.5	315.3	-330.2	-305.2	10.00	10.00	0.00
8,550.0	11.76	180.47	8,515.8	307.3	-330.3	-297.2	10.00	10.00	0.00
8,600.0	16.76	180.47	8,564.2	295.0	-330.4	-284.9	10.00	10.00	0.00
8,650.0	21.76	180.47	8,611.4	278.5	-330.5	-268.4	10.00	10.00	0.00
8,700.0	26.76	180.47	8,657.0	257.9	-330.7	-247.9	10.00	10.00	0.00
8,750.0	31.76	180.47	8,700.6	233.5	-330.9	-223.4	10.00	10.00	0.00
8,800.0	36.76	180.47	8,741.9	205.4	-331.1	-195.3	10.00	10.00	0.00
8,850.0	41.76	180.47	8,780.6	173.8	-331.4	-163.7	10.00	10.00	0.00
8,900.0	46.76	180.47	8,816.4	138.9	-331.7	-128.8	10.00	10.00	0.00
8,950.0	51.76	180.47	8,849.0	101.0	-332.0	-91.0	10.00	10.00	0.00
9,000.0	56.76	180.47	8,878.2	60.4	-332.3	-50.4	10.00	10.00	0.00
9,050.0	61.76	180.47	8,903.8	17.5	-332.7	-7.4	10.00	10.00	0.00
9,100.0	66.76	180.47	8,925.5	-27.6	-333.1	37.6	10.00	10.00	0.00
9,150.0	71.76	180.47	8,943.2	-74.3	-333.5	84.3	10.00	10.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	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	76.76	180.47	8,956.8	-122.4	-333.8	132.4	10.00	10.00	0.00	
9,250.0	81.76	180.47	8,966.1	-171.5	-334.3	181.5	10.00	10.00	0.00	
9,300.0	86.76	180.47	8,971.1	-221.2	-334.7	231.2	10.00	10.00	0.00	
9,332.1	89.97	180.47	8,972.0	-253.3	-334.9	263.3	10.00	10.00	0.00	
Start 14836.4 hold at 9332.1 MD										
9,400.0	89.97	180.47	8,972.0	-321.2	-335.5	331.2	0.00	0.00	0.00	
9,500.0	89.97	180.47	8,972.1	-421.2	-336.3	431.2	0.00	0.00	0.00	
9,600.0	89.97	180.47	8,972.2	-521.2	-337.1	531.1	0.00	0.00	0.00	
9,700.0	89.97	180.47	8,972.2	-621.2	-338.0	631.1	0.00	0.00	0.00	
9,800.0	89.97	180.47	8,972.3	-721.2	-338.8	731.1	0.00	0.00	0.00	
9,900.0	89.97	180.47	8,972.3	-821.2	-339.6	831.1	0.00	0.00	0.00	
10,000.0	89.97	180.47	8,972.4	-921.2	-340.4	931.0	0.00	0.00	0.00	
10,100.0	89.97	180.47	8,972.5	-1,021.2	-341.3	1,031.0	0.00	0.00	0.00	
10,200.0	89.97	180.47	8,972.5	-1,121.2	-342.1	1,131.0	0.00	0.00	0.00	
10,300.0	89.97	180.47	8,972.6	-1,221.2	-342.9	1,231.0	0.00	0.00	0.00	
10,400.0	89.97	180.47	8,972.6	-1,321.2	-343.8	1,330.9	0.00	0.00	0.00	
10,500.0	89.97	180.47	8,972.7	-1,421.2	-344.6	1,430.9	0.00	0.00	0.00	
10,600.0	89.97	180.47	8,972.8	-1,521.2	-345.4	1,530.9	0.00	0.00	0.00	
10,700.0	89.97	180.47	8,972.8	-1,621.2	-346.2	1,630.9	0.00	0.00	0.00	
10,800.0	89.97	180.47	8,972.9	-1,721.2	-347.1	1,730.8	0.00	0.00	0.00	
10,900.0	89.97	180.47	8,972.9	-1,821.2	-347.9	1,830.8	0.00	0.00	0.00	
11,000.0	89.97	180.47	8,973.0	-1,921.2	-348.7	1,930.8	0.00	0.00	0.00	
11,100.0	89.97	180.47	8,973.1	-2,021.2	-349.5	2,030.8	0.00	0.00	0.00	
11,200.0	89.97	180.47	8,973.1	-2,121.2	-350.4	2,130.7	0.00	0.00	0.00	
11,300.0	89.97	180.47	8,973.2	-2,221.2	-351.2	2,230.7	0.00	0.00	0.00	
11,400.0	89.97	180.47	8,973.2	-2,321.2	-352.0	2,330.7	0.00	0.00	0.00	
11,500.0	89.97	180.47	8,973.3	-2,421.1	-352.8	2,430.7	0.00	0.00	0.00	
11,600.0	89.97	180.47	8,973.4	-2,521.1	-353.7	2,530.7	0.00	0.00	0.00	
11,700.0	89.97	180.47	8,973.4	-2,621.1	-354.5	2,630.6	0.00	0.00	0.00	
11,800.0	89.97	180.47	8,973.5	-2,721.1	-355.3	2,730.6	0.00	0.00	0.00	
11,900.0	89.97	180.47	8,973.5	-2,821.1	-356.1	2,830.6	0.00	0.00	0.00	
12,000.0	89.97	180.47	8,973.6	-2,921.1	-357.0	2,930.6	0.00	0.00	0.00	
12,100.0	89.97	180.47	8,973.7	-3,021.1	-357.8	3,030.5	0.00	0.00	0.00	
12,200.0	89.97	180.47	8,973.7	-3,121.1	-358.6	3,130.5	0.00	0.00	0.00	
12,300.0	89.97	180.47	8,973.8	-3,221.1	-359.4	3,230.5	0.00	0.00	0.00	
12,400.0	89.97	180.47	8,973.8	-3,321.1	-360.3	3,330.5	0.00	0.00	0.00	
12,500.0	89.97	180.47	8,973.9	-3,421.1	-361.1	3,430.4	0.00	0.00	0.00	
12,600.0	89.97	180.47	8,974.0	-3,521.1	-361.9	3,530.4	0.00	0.00	0.00	
12,700.0	89.97	180.47	8,974.0	-3,621.1	-362.8	3,630.4	0.00	0.00	0.00	
12,800.0	89.97	180.47	8,974.1	-3,721.1	-363.6	3,730.4	0.00	0.00	0.00	
12,900.0	89.97	180.47	8,974.1	-3,821.1	-364.4	3,830.3	0.00	0.00	0.00	
13,000.0	89.97	180.47	8,974.2	-3,921.1	-365.2	3,930.3	0.00	0.00	0.00	
13,100.0	89.97	180.47	8,974.3	-4,021.1	-366.1	4,030.3	0.00	0.00	0.00	
13,200.0	89.97	180.47	8,974.3	-4,121.1	-366.9	4,130.3	0.00	0.00	0.00	
13,300.0	89.97	180.47	8,974.4	-4,221.1	-367.7	4,230.2	0.00	0.00	0.00	
13,400.0	89.97	180.47	8,974.4	-4,321.1	-368.5	4,330.2	0.00	0.00	0.00	
13,500.0	89.97	180.47	8,974.5	-4,421.1	-369.4	4,430.2	0.00	0.00	0.00	
13,600.0	89.97	180.47	8,974.6	-4,521.1	-370.2	4,530.2	0.00	0.00	0.00	
13,700.0	89.97	180.47	8,974.6	-4,621.1	-371.0	4,630.2	0.00	0.00	0.00	
13,800.0	89.97	180.47	8,974.7	-4,721.1	-371.8	4,730.1	0.00	0.00	0.00	
13,900.0	89.97	180.47	8,974.7	-4,821.1	-372.7	4,830.1	0.00	0.00	0.00	
14,000.0	89.97	180.47	8,974.8	-4,921.1	-373.5	4,930.1	0.00	0.00	0.00	
14,100.0	89.97	180.47	8,974.9	-5,021.1	-374.3	5,030.1	0.00	0.00	0.00	
14,200.0	89.97	180.47	8,974.9	-5,121.1	-375.1	5,130.0	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	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)
14,300.0	89.97	180.47	8,975.0	-5,221.1	-376.0	5,230.0	0.00	0.00	0.00
14,400.0	89.97	180.47	8,975.0	-5,321.0	-376.8	5,330.0	0.00	0.00	0.00
14,500.0	89.97	180.47	8,975.1	-5,421.0	-377.6	5,430.0	0.00	0.00	0.00
14,600.0	89.97	180.47	8,975.2	-5,521.0	-378.5	5,529.9	0.00	0.00	0.00
14,700.0	89.97	180.47	8,975.2	-5,621.0	-379.3	5,629.9	0.00	0.00	0.00
14,800.0	89.97	180.47	8,975.3	-5,721.0	-380.1	5,729.9	0.00	0.00	0.00
14,900.0	89.97	180.47	8,975.3	-5,821.0	-380.9	5,829.9	0.00	0.00	0.00
15,000.0	89.97	180.47	8,975.4	-5,921.0	-381.8	5,929.8	0.00	0.00	0.00
15,100.0	89.97	180.47	8,975.5	-6,021.0	-382.6	6,029.8	0.00	0.00	0.00
15,200.0	89.97	180.47	8,975.5	-6,121.0	-383.4	6,129.8	0.00	0.00	0.00
15,300.0	89.97	180.47	8,975.6	-6,221.0	-384.2	6,229.8	0.00	0.00	0.00
15,400.0	89.97	180.47	8,975.6	-6,321.0	-385.1	6,329.7	0.00	0.00	0.00
15,500.0	89.97	180.47	8,975.7	-6,421.0	-385.9	6,429.7	0.00	0.00	0.00
15,600.0	89.97	180.47	8,975.8	-6,521.0	-386.7	6,529.7	0.00	0.00	0.00
15,700.0	89.97	180.47	8,975.8	-6,621.0	-387.5	6,629.7	0.00	0.00	0.00
15,800.0	89.97	180.47	8,975.9	-6,721.0	-388.4	6,729.6	0.00	0.00	0.00
15,900.0	89.97	180.47	8,975.9	-6,821.0	-389.2	6,829.6	0.00	0.00	0.00
16,000.0	89.97	180.47	8,976.0	-6,921.0	-390.0	6,929.6	0.00	0.00	0.00
16,100.0	89.97	180.47	8,976.1	-7,021.0	-390.8	7,029.6	0.00	0.00	0.00
16,200.0	89.97	180.47	8,976.1	-7,121.0	-391.7	7,129.6	0.00	0.00	0.00
16,300.0	89.97	180.47	8,976.2	-7,221.0	-392.5	7,229.5	0.00	0.00	0.00
16,400.0	89.97	180.47	8,976.3	-7,321.0	-393.3	7,329.5	0.00	0.00	0.00
16,500.0	89.97	180.47	8,976.3	-7,421.0	-394.1	7,429.5	0.00	0.00	0.00
16,600.0	89.97	180.47	8,976.4	-7,521.0	-395.0	7,529.5	0.00	0.00	0.00
16,700.0	89.97	180.47	8,976.4	-7,621.0	-395.8	7,629.4	0.00	0.00	0.00
16,800.0	89.97	180.47	8,976.5	-7,721.0	-396.6	7,729.4	0.00	0.00	0.00
16,900.0	89.97	180.47	8,976.6	-7,821.0	-397.5	7,829.4	0.00	0.00	0.00
17,000.0	89.97	180.47	8,976.6	-7,921.0	-398.3	7,929.4	0.00	0.00	0.00
17,100.0	89.97	180.47	8,976.7	-8,021.0	-399.1	8,029.3	0.00	0.00	0.00
17,200.0	89.97	180.47	8,976.7	-8,121.0	-399.9	8,129.3	0.00	0.00	0.00
17,300.0	89.97	180.47	8,976.8	-8,220.9	-400.8	8,229.3	0.00	0.00	0.00
17,400.0	89.97	180.47	8,976.9	-8,320.9	-401.6	8,329.3	0.00	0.00	0.00
17,500.0	89.97	180.47	8,976.9	-8,420.9	-402.4	8,429.2	0.00	0.00	0.00
17,600.0	89.97	180.47	8,977.0	-8,520.9	-403.2	8,529.2	0.00	0.00	0.00
17,700.0	89.97	180.47	8,977.0	-8,620.9	-404.1	8,629.2	0.00	0.00	0.00
17,800.0	89.97	180.47	8,977.1	-8,720.9	-404.9	8,729.2	0.00	0.00	0.00
17,900.0	89.97	180.47	8,977.2	-8,820.9	-405.7	8,829.1	0.00	0.00	0.00
18,000.0	89.97	180.47	8,977.2	-8,920.9	-406.5	8,929.1	0.00	0.00	0.00
18,100.0	89.97	180.47	8,977.3	-9,020.9	-407.4	9,029.1	0.00	0.00	0.00
18,200.0	89.97	180.47	8,977.3	-9,120.9	-408.2	9,129.1	0.00	0.00	0.00
18,300.0	89.97	180.47	8,977.4	-9,220.9	-409.0	9,229.1	0.00	0.00	0.00
18,400.0	89.97	180.47	8,977.5	-9,320.9	-409.8	9,329.0	0.00	0.00	0.00
18,500.0	89.97	180.47	8,977.5	-9,420.9	-410.7	9,429.0	0.00	0.00	0.00
18,600.0	89.97	180.47	8,977.6	-9,520.9	-411.5	9,529.0	0.00	0.00	0.00
18,700.0	89.97	180.47	8,977.6	-9,620.9	-412.3	9,629.0	0.00	0.00	0.00
18,800.0	89.97	180.47	8,977.7	-9,720.9	-413.1	9,728.9	0.00	0.00	0.00
18,900.0	89.97	180.47	8,977.8	-9,820.9	-414.0	9,828.9	0.00	0.00	0.00
19,000.0	89.97	180.47	8,977.8	-9,920.9	-414.8	9,928.9	0.00	0.00	0.00
19,100.0	89.97	180.47	8,977.9	-10,020.9	-415.6	10,028.9	0.00	0.00	0.00
19,200.0	89.97	180.47	8,977.9	-10,120.9	-416.5	10,128.8	0.00	0.00	0.00
19,300.0	89.97	180.47	8,978.0	-10,220.9	-417.3	10,228.8	0.00	0.00	0.00
19,400.0	89.97	180.47	8,978.1	-10,320.9	-418.1	10,328.8	0.00	0.00	0.00
19,500.0	89.97	180.47	8,978.1	-10,420.9	-418.9	10,428.8	0.00	0.00	0.00
19,600.0	89.97	180.47	8,978.2	-10,520.9	-419.8	10,528.7	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	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)
19,700.0	89.97	180.47	8,978.2	-10,620.9	-420.6	10,628.7	0.00	0.00	0.00
19,800.0	89.97	180.47	8,978.3	-10,720.9	-421.4	10,728.7	0.00	0.00	0.00
19,900.0	89.97	180.47	8,978.4	-10,820.9	-422.2	10,828.7	0.00	0.00	0.00
20,000.0	89.97	180.47	8,978.4	-10,920.9	-423.1	10,928.6	0.00	0.00	0.00
20,100.0	89.97	180.47	8,978.5	-11,020.9	-423.9	11,028.6	0.00	0.00	0.00
20,200.0	89.97	180.47	8,978.5	-11,120.8	-424.7	11,128.6	0.00	0.00	0.00
20,300.0	89.97	180.47	8,978.6	-11,220.8	-425.5	11,228.6	0.00	0.00	0.00
20,400.0	89.97	180.47	8,978.7	-11,320.8	-426.4	11,328.5	0.00	0.00	0.00
20,500.0	89.97	180.47	8,978.7	-11,420.8	-427.2	11,428.5	0.00	0.00	0.00
20,600.0	89.97	180.47	8,978.8	-11,520.8	-428.0	11,528.5	0.00	0.00	0.00
20,700.0	89.97	180.47	8,978.8	-11,620.8	-428.8	11,628.5	0.00	0.00	0.00
20,800.0	89.97	180.47	8,978.9	-11,720.8	-429.7	11,728.5	0.00	0.00	0.00
20,900.0	89.97	180.47	8,979.0	-11,820.8	-430.5	11,828.4	0.00	0.00	0.00
21,000.0	89.97	180.47	8,979.0	-11,920.8	-431.3	11,928.4	0.00	0.00	0.00
21,100.0	89.97	180.47	8,979.1	-12,020.8	-432.2	12,028.4	0.00	0.00	0.00
21,200.0	89.97	180.47	8,979.1	-12,120.8	-433.0	12,128.4	0.00	0.00	0.00
21,300.0	89.97	180.47	8,979.2	-12,220.8	-433.8	12,228.3	0.00	0.00	0.00
21,400.0	89.97	180.47	8,979.3	-12,320.8	-434.6	12,328.3	0.00	0.00	0.00
21,500.0	89.97	180.47	8,979.3	-12,420.8	-435.5	12,428.3	0.00	0.00	0.00
21,600.0	89.97	180.47	8,979.4	-12,520.8	-436.3	12,528.3	0.00	0.00	0.00
21,700.0	89.97	180.47	8,979.4	-12,620.8	-437.1	12,628.2	0.00	0.00	0.00
21,800.0	89.97	180.47	8,979.5	-12,720.8	-437.9	12,728.2	0.00	0.00	0.00
21,900.0	89.97	180.47	8,979.6	-12,820.8	-438.8	12,828.2	0.00	0.00	0.00
22,000.0	89.97	180.47	8,979.6	-12,920.8	-439.6	12,928.2	0.00	0.00	0.00
22,100.0	89.97	180.47	8,979.7	-13,020.8	-440.4	13,028.1	0.00	0.00	0.00
22,200.0	89.97	180.47	8,979.7	-13,120.8	-441.2	13,128.1	0.00	0.00	0.00
22,300.0	89.97	180.47	8,979.8	-13,220.8	-442.1	13,228.1	0.00	0.00	0.00
22,400.0	89.97	180.47	8,979.9	-13,320.8	-442.9	13,328.1	0.00	0.00	0.00
22,500.0	89.97	180.47	8,979.9	-13,420.8	-443.7	13,428.0	0.00	0.00	0.00
22,600.0	89.97	180.47	8,980.0	-13,520.8	-444.5	13,528.0	0.00	0.00	0.00
22,700.0	89.97	180.47	8,980.0	-13,620.8	-445.4	13,628.0	0.00	0.00	0.00
22,800.0	89.97	180.47	8,980.1	-13,720.8	-446.2	13,728.0	0.00	0.00	0.00
22,900.0	89.97	180.47	8,980.2	-13,820.8	-447.0	13,828.0	0.00	0.00	0.00
23,000.0	89.97	180.47	8,980.2	-13,920.8	-447.8	13,927.9	0.00	0.00	0.00
23,100.0	89.97	180.47	8,980.3	-14,020.8	-448.7	14,027.9	0.00	0.00	0.00
23,200.0	89.97	180.47	8,980.3	-14,120.7	-449.5	14,127.9	0.00	0.00	0.00
23,300.0	89.97	180.47	8,980.4	-14,220.7	-450.3	14,227.9	0.00	0.00	0.00
23,400.0	89.97	180.47	8,980.5	-14,320.7	-451.2	14,327.8	0.00	0.00	0.00
23,500.0	89.97	180.47	8,980.5	-14,420.7	-452.0	14,427.8	0.00	0.00	0.00
23,600.0	89.97	180.47	8,980.6	-14,520.7	-452.8	14,527.8	0.00	0.00	0.00
23,700.0	89.97	180.47	8,980.6	-14,620.7	-453.6	14,627.8	0.00	0.00	0.00
23,800.0	89.97	180.47	8,980.7	-14,720.7	-454.5	14,727.7	0.00	0.00	0.00
23,900.0	89.97	180.47	8,980.8	-14,820.7	-455.3	14,827.7	0.00	0.00	0.00
24,000.0	89.97	180.47	8,980.8	-14,920.7	-456.1	14,927.7	0.00	0.00	0.00
24,100.0	89.97	180.47	8,980.9	-15,020.7	-456.9	15,027.7	0.00	0.00	0.00
24,168.5	89.97	180.47	8,980.9	-15,089.2	-457.5	15,096.1	0.00	0.00	0.00
Start 130.0 hold at 24168.5 MD									
24,200.0	89.97	180.47	8,980.9	-15,120.7	-457.8	15,127.6	0.00	0.00	0.00
24,298.5	89.97	180.47	8,981.0	-15,219.2	-458.6	15,226.1	0.00	0.00	0.00
TD at 24298.5									

ConocoPhillips
Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #703H
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 #703H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
FTP (FLAMING SNAIL F - plan misses target center by 237.4usft at 8885.5usft MD (8806.4 TVD, 149.3 N, -331.6 E) - Circle (radius 50.0)	0.00	0.00	8,972.0	319.3	-330.2	402,793.50	544,324.60	32° 6' 26.333 N	104° 11' 24.653 W
LTP (FLAMING SNAIL F - plan hits target center - Point	0.00	0.01	8,980.9	-15,089.2	-457.5	387,385.00	544,197.30	32° 3' 53.843 N	104° 11' 26.370 W
PBHL (FLAMING SNAIL - plan hits target center - Rectangle (sides W100.0 H15,539.0 D20.0)	0.03	0.47	8,981.0	-15,219.2	-458.6	387,255.00	544,196.20	32° 3' 52.556 N	104° 11' 26.385 W

Plan Annotations				
Measured Depth	Vertical Depth	Local Coordinates		Comment
(usft)	(usft)	+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
1,950.1	1,948.2	24.5	-25.4	Start 2259.1 hold at 1950.1 MD
4,209.2	4,179.5	270.2	-279.5	Start Drop -1.00
5,109.4	5,076.0	319.3	-330.2	Start 3323.0 hold at 5109.4 MD
8,432.4	8,399.0	319.3	-330.2	Start DLS 10.00 TFO 180.47
9,332.1	8,972.0	-253.3	-334.9	Start 14836.4 hold at 9332.1 MD
24,168.5	8,980.9	-15,089.2	-457.5	Start 130.0 hold at 24168.5 MD
24,298.5	8,981.0	-15,219.2	-458.6	TD at 24298.5



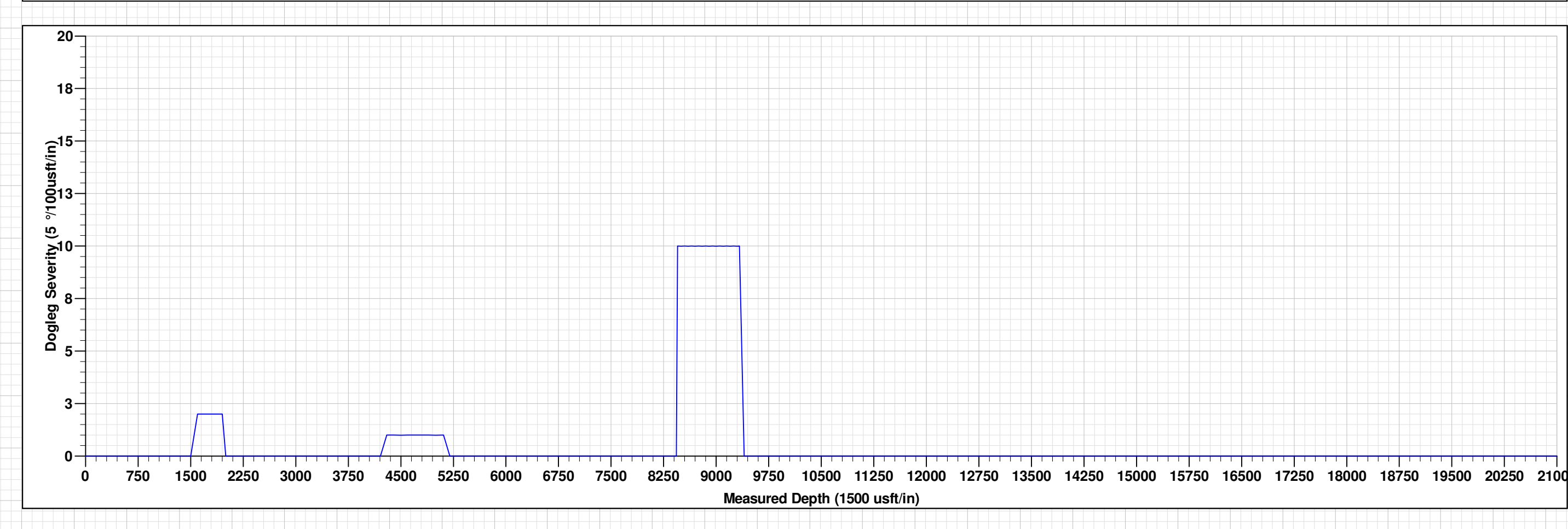
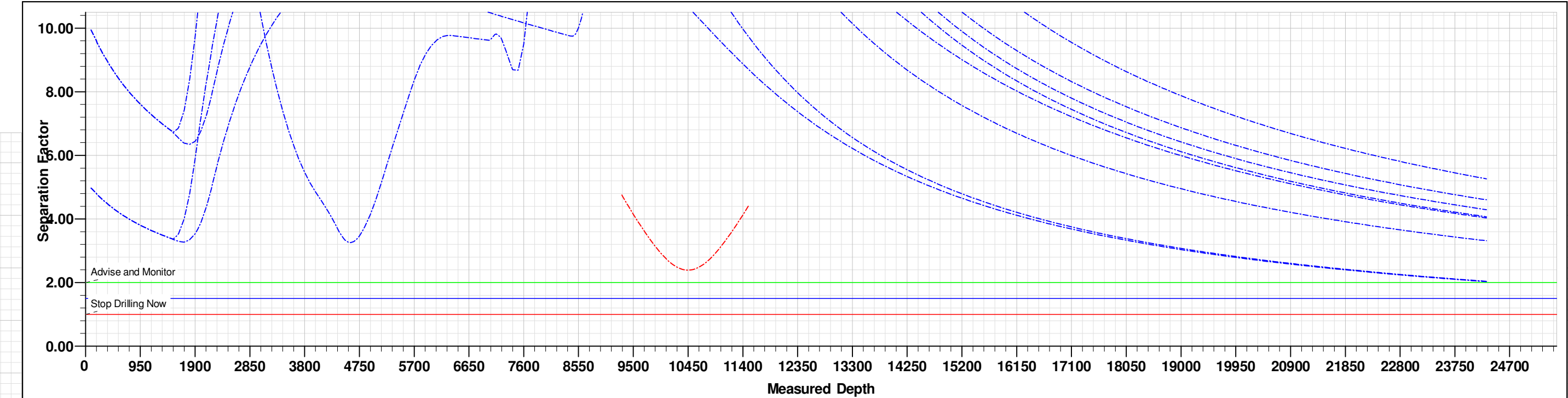
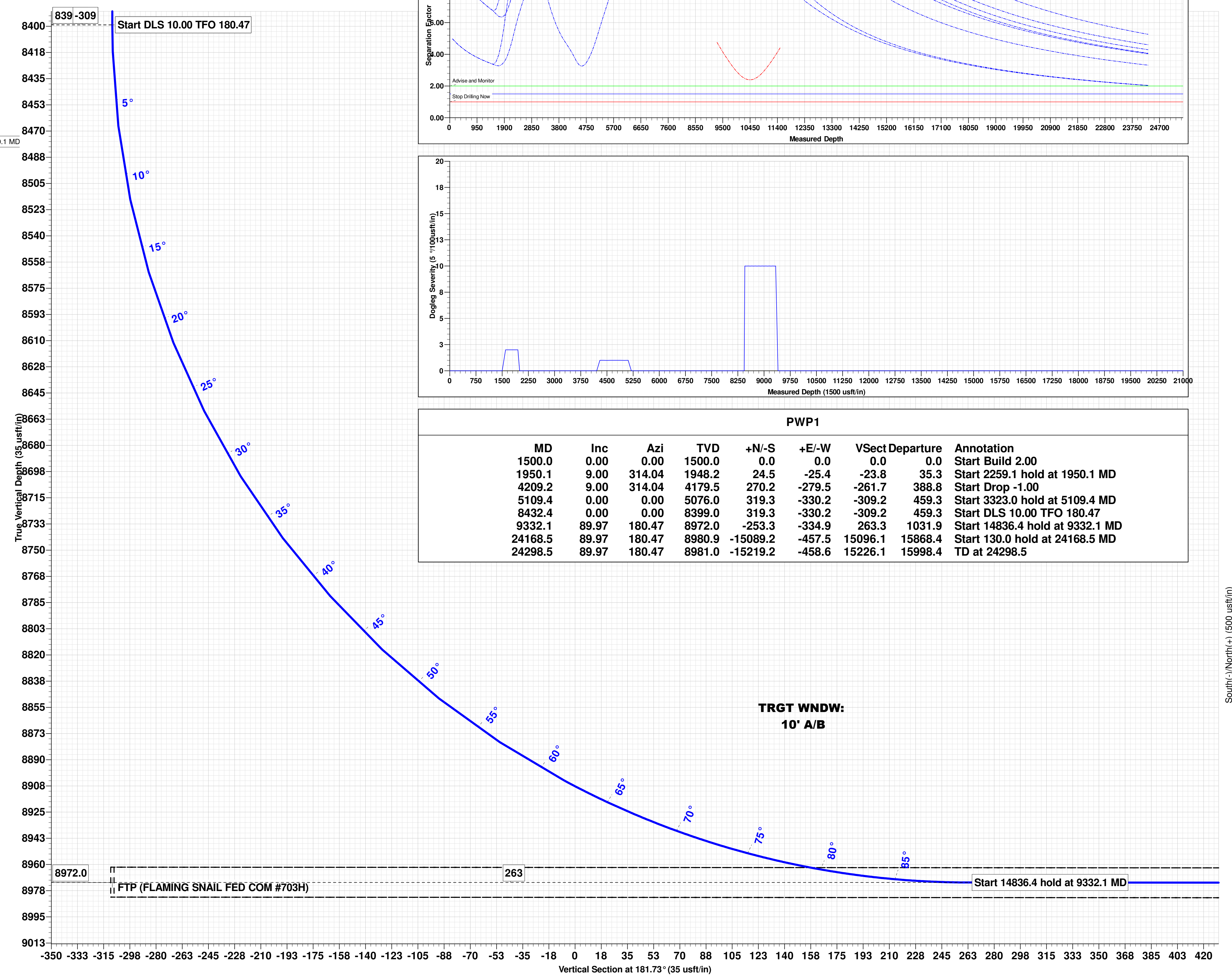
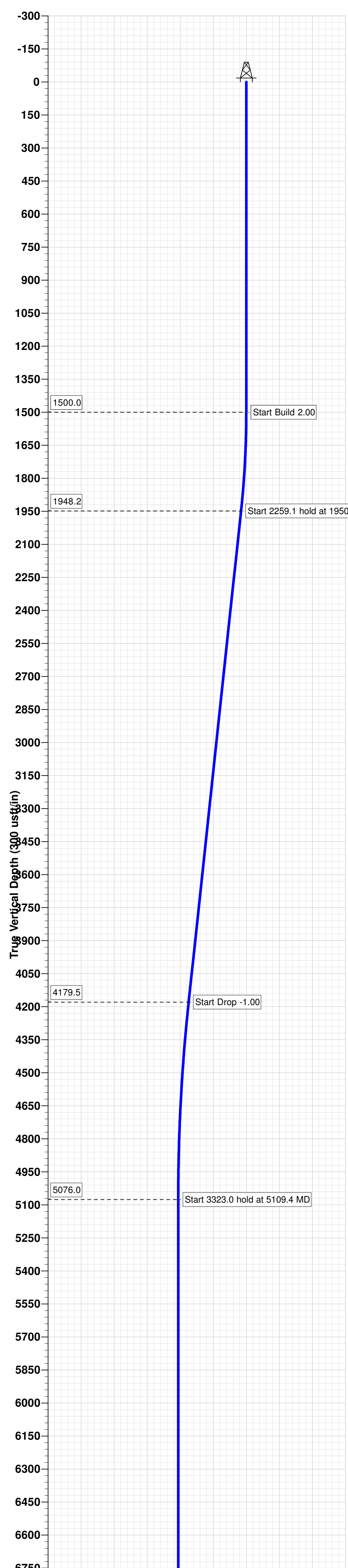
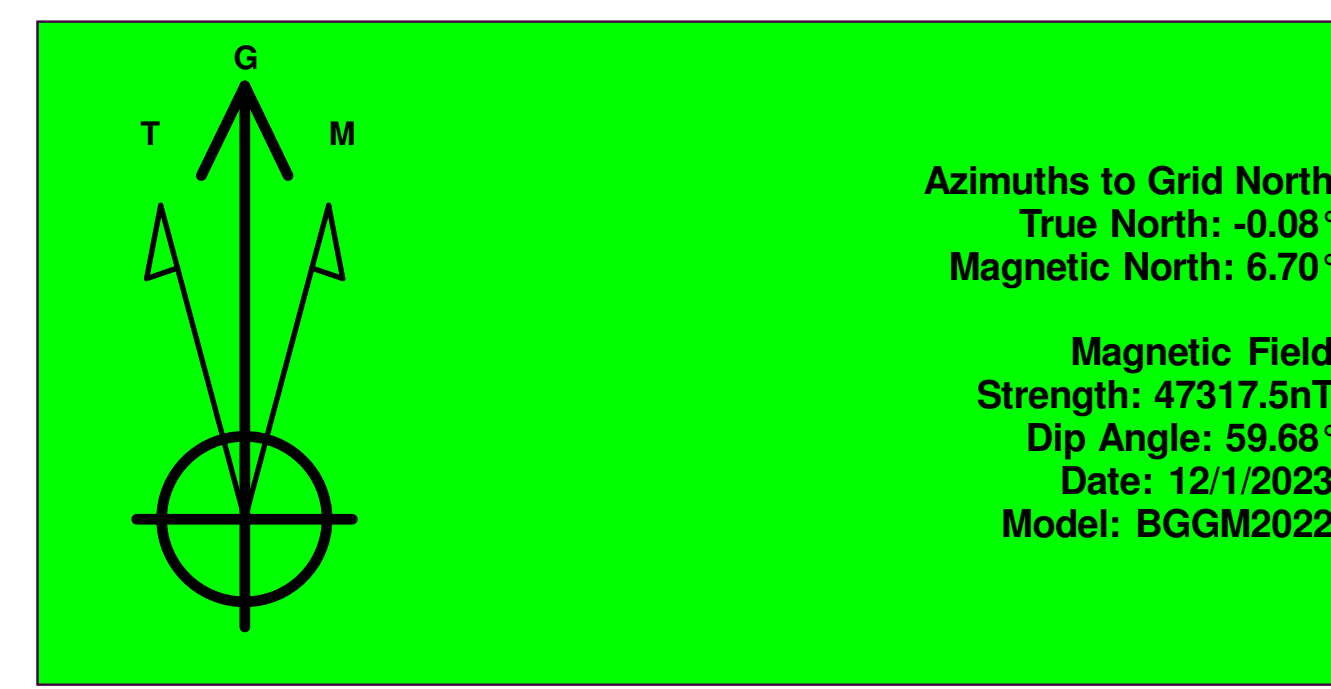
Project: ATLAS PROSPECT (NM-E)
 Site: FLAMING SNAIL FED COM PROJECT
 Well: FLAMING SNAIL FEDERAL COM #703H
 Wellbore: OWB
 Design: PWP1
 GL: 3129.3
 *RKB 32ft + GL 3129.3ft @ 3161.3usft

WELL DETAILS: FLAMING SNAIL FEDERAL COM #703H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402474.20	544654.80	32° 6' 23.168 N	104° 11' 20.819 W

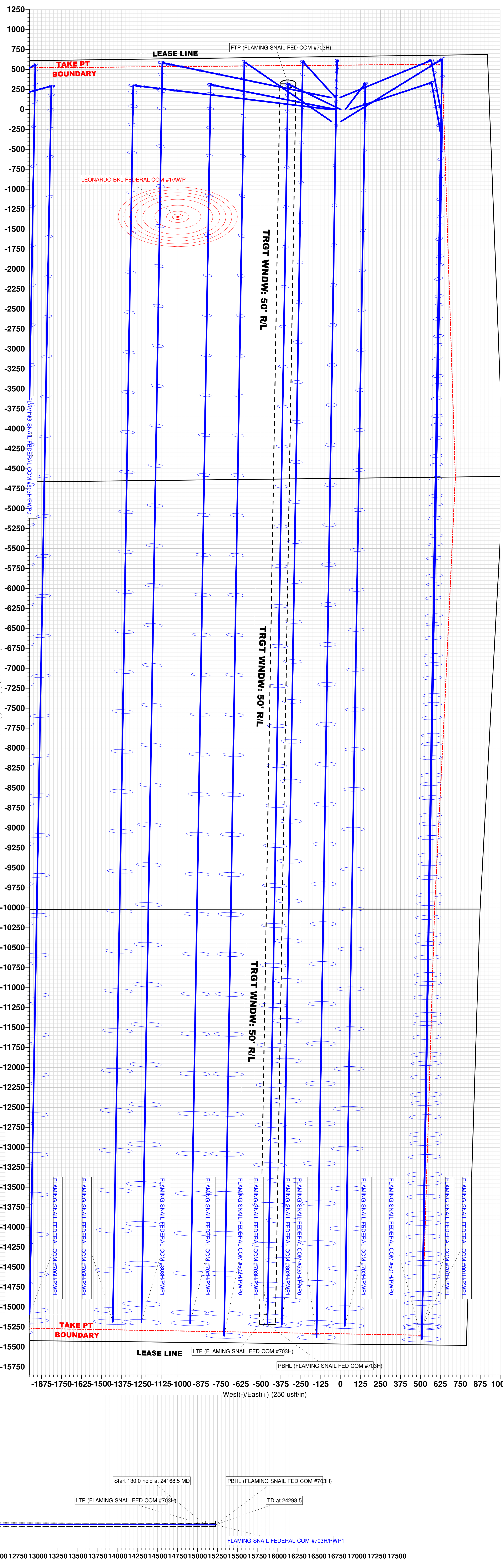
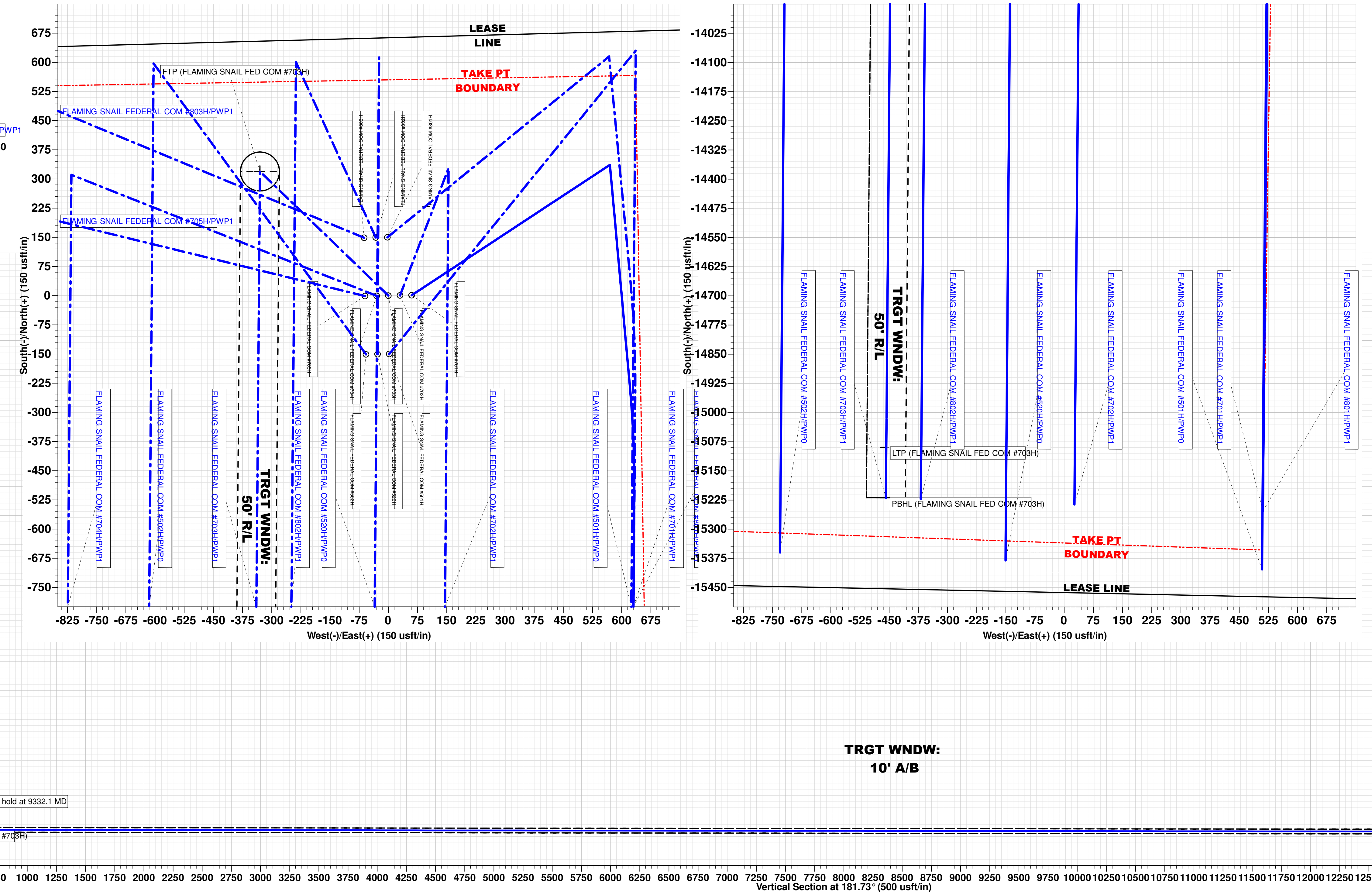
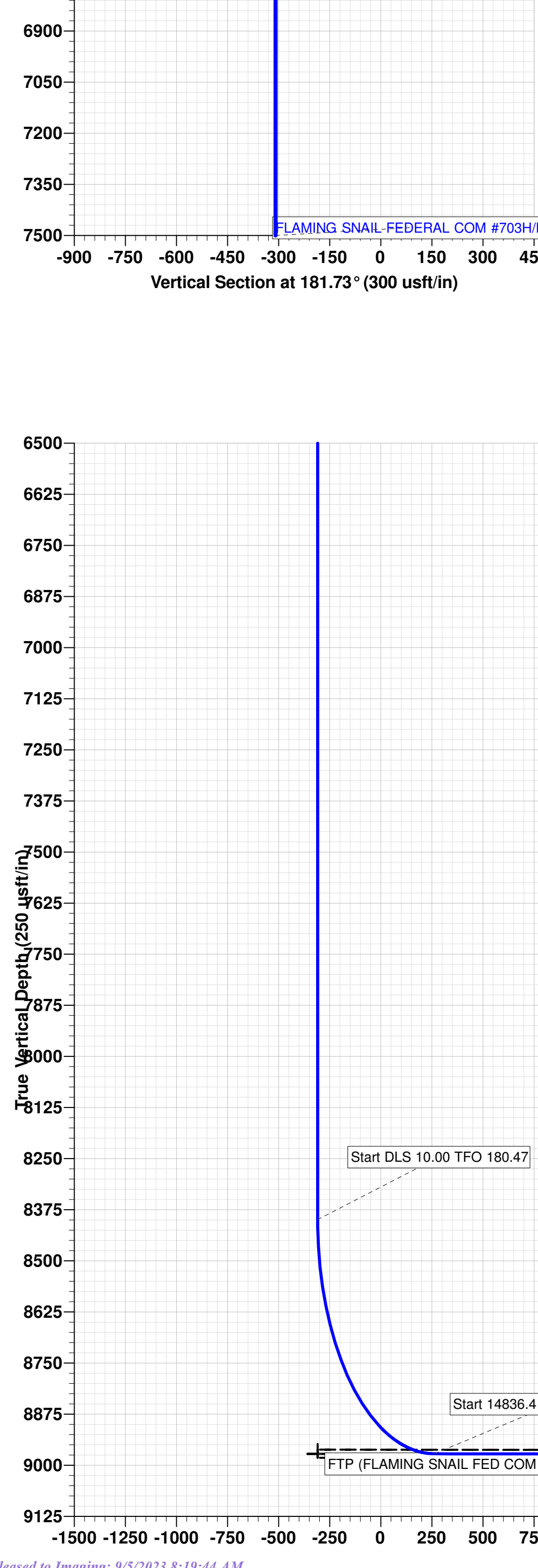
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
FTP (FLAMING SNAIL FED COM #703H)	8972.0	319.3	-330.2	402793.50	544324.60	Circle (Radius: 50.0)
LTP (FLAMING SNAIL FED COM #703H)	8980.9	-15089.2	-457.5	387385.00	544197.30	Point
PBHL (FLAMING SNAIL FED COM #703H)	8981.0	-15219.2	-458.6	387255.00	544196.20	Rectangle (Sides: L15539.0 W100.0)



PWP1

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
1500.0	0.00	0.00	1500.0	0.0	0.0	0.0	0.0	Start Build 2.00
1950.1	9.00	314.04	1948.2	24.5	-25.4	-23.8	35.3	Start 2259.1 hold at 1950.1 MD
4209.2	9.00	314.04	4179.5	270.2	-279.5	-261.7	388.8	Start Drop -1.00
5109.4	0.00	0.00	5076.0	319.3	-330.2	-309.2	459.3	Start 3323.0 hold at 5109.4 MD
8432.4	0.00	0.00	8399.0	319.3	-330.2	-309.2	459.3	Start DLS 10.00 TFO 180.47
9332.1	89.97	180.47	8972.0	-253.3	-334.9	263.3	1031.9	Start 14836.4 hold at 9332.1 MD
24168.5	89.97	180.47	8980.9	-15089.2	-457.5	15096.1	15868.4	Start 130.0 hold at 24168.5 MD
24298.5	89.97	180.47	8981.0	-15219.2	-458.6	15226.1	15998.4	TD at 24298.5



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 703H
SURFACE HOLE FOOTAGE:	655'/N & 975'/E
BOTTOM HOLE FOOTAGE:	330'/S & 1300'/E

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The **10-3/4** inch surface casing shall be set at approximately **540** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to

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

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

Option 2:

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

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

C. PRESSURE CONTROL

1. Variance approved to use flex line from BOP to choke manifold. Manufacturer's specification to be readily available. No external damage to flex line. Flex line to be installed as straight as possible (no hard bends).
 2. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the casing shoe shall be **5000 (5M)** psi.
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

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

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

Eddy County

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

Lea County

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

1. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
 - a. In the event the operator has proposed to drill multiple wells utilizing a skid/walking rig. Operator shall secure the wellbore on the current well, after

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

A. CASING

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

details regarding lead cement slurry requirements. The casing integrity test can be done (prior to the cement setting up) immediately after bumping the plug.

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

B. PRESSURE CONTROL

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

4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in **43 CFR part 3170 Subpart 3172** must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.

5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead cement), whichever is greater. However, if the float does not hold, cut-off cannot be initiated until cement reaches 500 psi compressive strength (including lead when specified).
 - b. In potash areas, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. For all casing strings, casing cut-off and BOP installation can be initiated at twelve hours after bumping the cement plug. The BOPE test can be initiated after bumping the cement plug with the casing valve open. (only applies to single stage cement jobs, prior to the cement setting up.)
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer and can be initiated immediately with the casing valve open. The operator also has the option of utilizing an independent tester to test without a plug (i.e. against the casing) pursuant to **43 CFR part 3170 Subpart 3172** with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

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

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

ZS 7/31/2023

COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

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

EMERGENCY RESPONSE NUMBERS

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

District I
 1625 N. French Dr., Hobbs, NM 88240
 Phone:(575) 393-6161 Fax:(575) 393-0720
District II
 811 S. First St., Artesia, NM 88210
 Phone:(575) 748-1283 Fax:(575) 748-9720
District III
 1000 Rio Brazos Rd., Aztec, NM 87410
 Phone:(505) 334-6178 Fax:(505) 334-6170
District IV
 1220 S. St Francis Dr., Santa Fe, NM 87505
 Phone:(505) 476-3470 Fax:(505) 476-3462

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

CONDITIONS

Action 260534

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 260534
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

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