

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

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

1a. Type of work: ☒ DRILL ☐ REENTER 1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other 1c. Type of Completion: ☐ Hydraulic Fracturing ☒ Single Zone ☐ Multiple Zone		5. Lease Serial No. NMNM092167 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 502H 9. API Well No. 30-015-53644
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 /Hay Hollow; Bone Spring, North 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 / 805 FNL / 1035 FEL / LAT 32.106142 / LONG -104.189797 At proposed prod. zone SWSE / 50 FSL / 1570 FEL / LAT 32.064336 / LONG -104.192035		12. County or Parish EDDY 13. State NM
14. Distance in miles and direction from nearest town or post office* 10 miles 15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 100 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. 580 feet 19. Proposed Depth 7525 feet / 23377 feet 20. BLM/BIA Bond No. in file FED:
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3131 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 08/25/2022	
Approved by (Signature) (Electronic Submission) Title Assistant Field Manager Lands & Minerals	Name (Printed/Typed) CODY LAYTON / Ph: (575) 234-5959 Date 03/21/2023	Office Carlsbad Field Office

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

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

(Continued on page 2)

*(Instructions on page 2)



Approval Date: 03/21/2023

Additional Operator Remarks

Location of Well

0. SHL: NENE / 805 FNL / 1035 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106142 / LONG: -104.189797 (TVD: 0 feet, MD: 0 feet)
PPP: NWNE / 1 FNL / 1570 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079006 / LONG: -104.191875 (TVD: 7535 feet, MD: 18030 feet)
PPP: NWSE / 2639 FSL / 1570 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.086392 / LONG: -104.191794 (TVD: 7541 feet, MD: 15390 feet)
PPP: SWSE / 1319 FSL / 1570 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097426 / LONG: -104.191674 (TVD: 7549 feet, MD: 11430 feet)
PPP: NWNE / 100 FNL / 1570 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.108056 / LONG: -104.191558 (TVD: 7406 feet, MD: 7569 feet)
BHL: SWSE / 50 FSL / 1570 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064336 / LONG: -104.192035 (TVD: 7525 feet, MD: 23377 feet)

BLM Point of Contact

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

CONFIDENTIAL

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

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

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

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

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015- 53644	Pool Code 30216	Pool Name Hay Hollow; Bone Spring, North
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 502H
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3131.6'

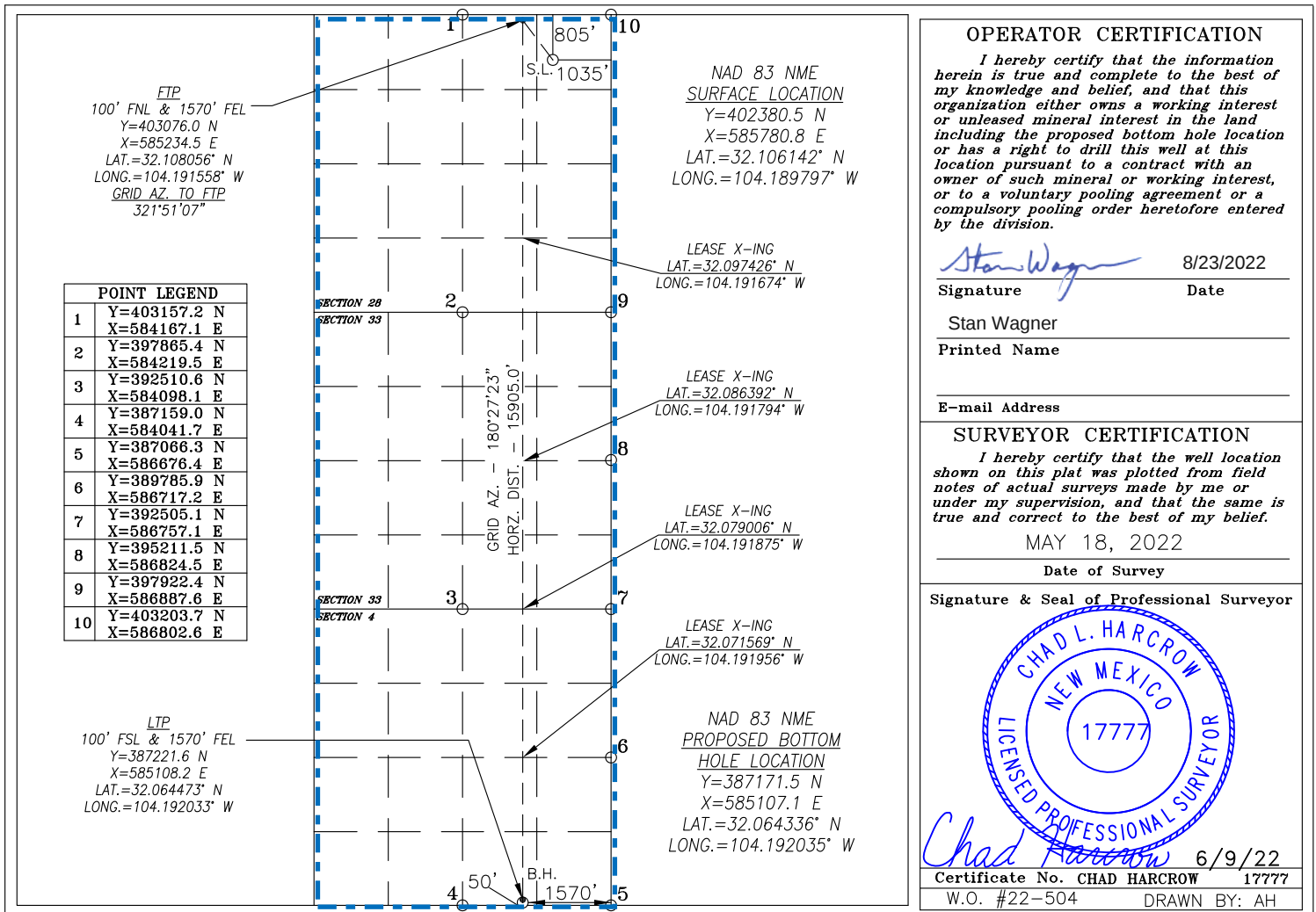
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	25-S	27-E		805	NORTH	1035	EAST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
0	4	26-S	27-E		50	SOUTH	1570	EAST	EDDY
Dedicated Acres 1920	Joint or Infill	Consolidation Code COM	Order No.						

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



State of New Mexico
Energy, Minerals and Natural Resources Department

Submit Electronically
Via E-permitting

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

NATURAL GAS MANAGEMENT PLAN

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

Section 1 – Plan Description

Effective May 25, 2021

I. Operator: COG Production LLC

OGRID: 229137

Date: 08/22/2022

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 501H	30-015	A-28-25S-27E	805 FNL & 975 FEL	± 1588	± 7149	± 2142
Flaming Snail Fed Com 502H	30-015-	A-28-25S-27E	805 FNL & 1035 FEL	± 1588	± 7149	± 2142
Flaming Snail Fed Com 503H	30-015-	C-28-25S-27E	855 FNL & 1715 FWL	± 1588	± 7149	± 2142
Flaming Snail Fed Com 504H	30-015-	C-28-25S-27E	855 FNL & 1655 FWL	± 1588	± 7149	± 2142
Flaming Snail Fed Com 520H	30-015-	A-28-25S-27E	805 FNL & 1005 FEL	± 1567	± 4376	± 1600
Flaming Snail Fed Com 521H	30-015-	C-28-25S-27E	855 FNL & 1685 FWL	± 1567	± 4376	± 1600

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
501H, 502H, 503H, 504H, 520H, 521H						

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

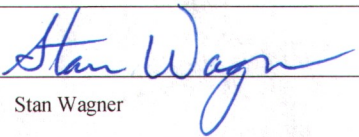
1. If, at any time after Operator submits this Natural Gas Management Plan and before the well is spud:

(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:	08/22/2022
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 Production LLC - Flaming Snail Federal Com #502H

1. Geologic Formations

TVD of target	7,556' EOL	Pilot hole depth	NA
MD at TD:	23,377'	Deepest expected fresh water:	28'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	80	Water	
Top of Salt	522	Salt	
Base of Salt	1943	Salt	
Lamar	2173	Salt Water	
Bell Canyon	2220	Salt Water	
Cherry Canyon	3025	Oil/Gas	
Brushy Canyon	4133	Oil/Gas	
Bone Spring Lime	5715	Oil/Gas	
1st Bone Spring Sand	6651	Oil/Gas	
2nd Bone Spring Sand	7154	Oil/Gas	
3rd Bone Spring Sand	8485	Not Penetrated	
Wolfcamp	8808	Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Tension
	From	To							
17.5"	0	485	13.375"	54.5	J55	STC	5.09	2.93	19.45
12.25"	0	2195	9.625"	40	J55	LTC	2.23	1.36	5.92
8.75"	0	23,377	5.5"	17	P110	LTC	2.05	3.67	3.46
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet

Intermediate casing will be kept at least 1/3 full while running casing to mitigate collapse. Intermediate burst based on 0.7 frac gradient at the shoe with Gas Gradient 0.1 psi/ft to surface.

All casing strings will be tested in accordance with Onshore Oil and Gas Order #2 III.B.1.h

COG Production LLC - Flaming Snail Federal Com #502H

	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.	N
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

COG Production LLC - Flaming Snail Federal Com #502H

3. Cementing Program

Casing	# Sk	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	100	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.	330	12.7	2.0	9.6	16	Lead: 35:65:6 C Blend
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl
5.5 Prod	670	11.9	2.5	19	72	Lead: 50:50:10 H Blend
	3990	14.4	1.24	5.7	19	Tail: 50:50:2 Class H Blend

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	1,695'	20% OH in Lateral (KOP to EOL) – 25% OH in Vertical

COG Production LLC - Flaming Snail Federal Com #502H

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:
12-1/4"	13-5/8"	2M	Annular	x	2000 psi
			Blind Ram		2M
			Pipe Ram		
			Double Ram		
			Other*		
8-3/4"	13-5/8"	3M	Annular	x	50% testing pressure
			Blind Ram	x	3M
			Pipe Ram	x	
			Double Ram		
			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.

X	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?
N	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 Production LLC - Flaming Snail Federal Com #502H

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	9-5/8" Int shoe	Saturated Brine	10 - 10.1	28-34	N/C
9-5/8" Int shoe	Lateral TD	Cut Brine	8.6 - 9.3	28-34	N/C

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 Production LLC - Flaming Snail Federal Com #502H

7. Drilling Conditions

Condition	Specify what type and where?
BH Pressure at deepest TVD	3655 psi at 7556' TVD
Abnormal Temperature	NO 135 Deg. F.

No abnormal pressure or temperature conditions are anticipated. Sufficient mud materials to maintain mud properties and weight increase requirements will be kept on location at all times.

Sufficient supplies of Paper/LCM for periodic sweeps to control seepage and losses will be maintained on location.

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of Onshore Oil and Gas Order #6. If Hydrogen Sulfide is encountered, measured values and formations will be provided to the BLM.

N H₂S is present

Y H₂S Plan attached

8. Other Facets of Operation

Y	Is it a walking operation?
Y	Is casing pre-set?

x	H ₂ S Plan.
x	BOP & Choke Schematics.
x	Directional Plan

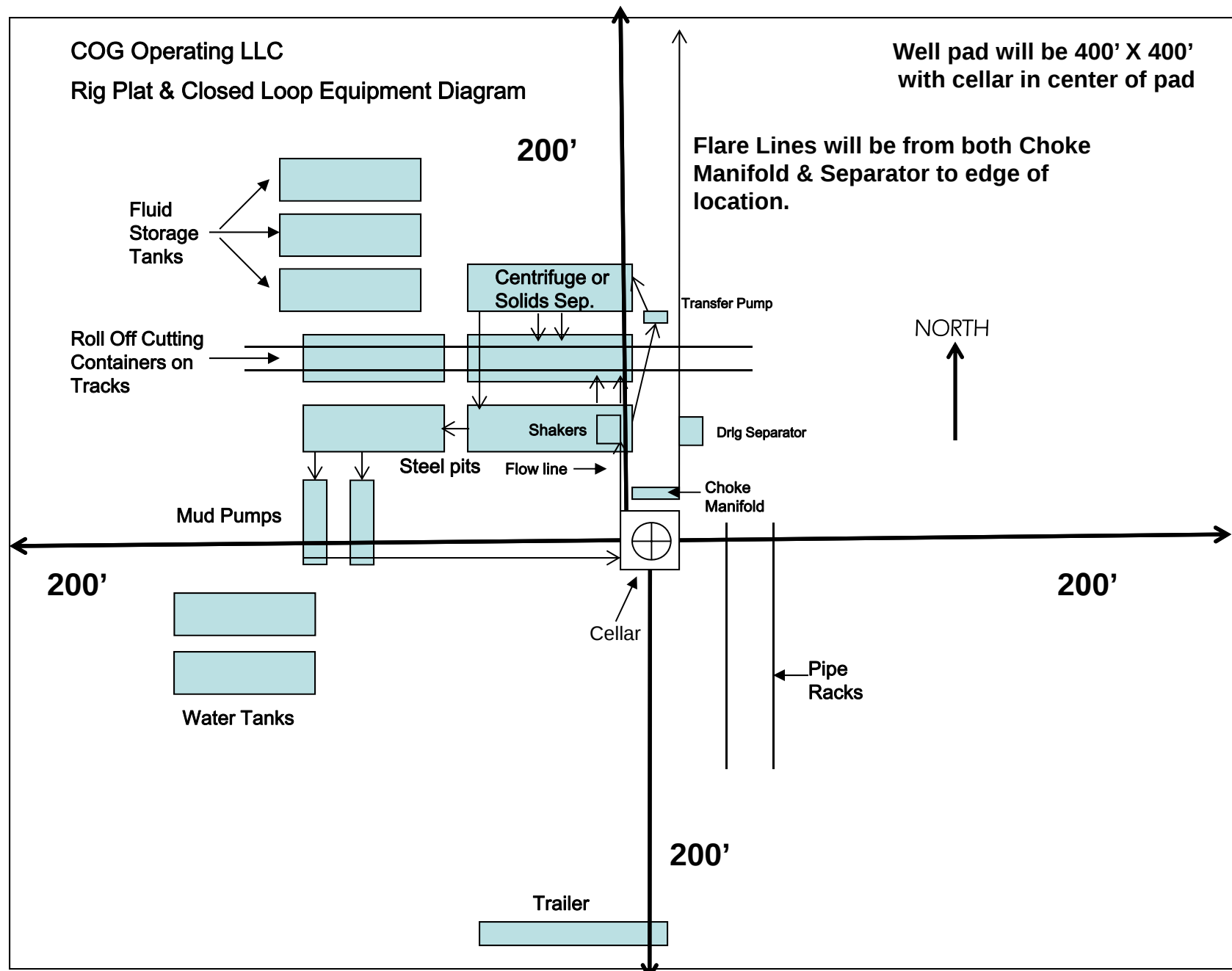


Exhibit 1

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

DELAWARE BASIN WEST

ATLAS PROSPECT (NM-E)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM #502H

OWB

PWP0

Anticollision Report

01 July, 2022

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference	PWP0		
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 1,000.0usft	Error Surface:	Pedal Curve
Warning Levels Evaluated at:	2.00 Sigma	Casing Method:	Not applied

Survey Tool Program	Date	7/1/2022			
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	2,000.0	PWP0 (OWB)	Standard Keeper 104	Standard Wireline Keeper ver 1.0.4	
2,000.0	7,093.1	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	
7,093.1	23,377.4	PWP0 (OWB)	MWD+IFR1+MS	OWSG MWD + IFR1 + Multi-Station Correction	

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
*FLAMING SNAIL FED COM #701H - OWB - PWP0	2,600.0	2,600.0	190.1	180.7	20.314	SF
*FLAMING SNAIL FED COM #701H - OWB - PWP0	2,670.5	2,664.8	188.9	179.6	20.365	CC, ES
*FLAMING SNAIL FED COM #702H - OWB - PWP0	2,700.0	2,692.3	170.7	160.8	17.265	SF
*FLAMING SNAIL FED COM #702H - OWB - PWP0	2,725.1	2,715.5	170.4	160.6	17.366	ES
*FLAMING SNAIL FED COM #702H - OWB - PWP0	2,732.9	2,722.6	170.4	160.6	17.404	CC
*FLAMING SNAIL FED COM #703H - OWB - PWP0	3,241.2	3,232.8	120.8	111.1	12.374	CC, ES
*FLAMING SNAIL FED COM #703H - OWB - PWP0	7,600.0	7,474.1	254.7	227.0	9.206	SF
*FLAMING SNAIL FED COM #704H - OWB - PWP0	3,616.6	3,640.9	22.1	10.6	1.925	Advise and Monitor, CC, ES
*FLAMING SNAIL FED COM #704H - OWB - PWP0	3,700.0	3,723.4	25.4	11.7	1.851	Advise and Monitor, SF
*FLAMING SNAIL FED COM #705H - OWB - PWP0	3,135.0	3,145.0	151.5	139.8	12.935	SF
*FLAMING SNAIL FED COM #705H - OWB - PWP0	3,200.0	3,209.0	151.0	139.4	12.972	ES
*FLAMING SNAIL FED COM #705H - OWB - PWP0	3,206.1	3,215.0	151.0	139.4	12.979	CC
*FLAMING SNAIL FED COM #706H - OWB - PWP0						Out of range
*FLAMING SNAIL FED COM #707H - OWB - PWP0						Out of range
*FLAMING SNAIL FED COM #708H - OWB - PWP0						Out of range
*FLAMING SNAIL FED COM #801H - OWB - PWP0	2,900.0	2,865.6	270.8	259.7	24.458	SF
*FLAMING SNAIL FED COM #801H - OWB - PWP0	2,945.0	2,905.9	270.2	259.2	24.498	ES
*FLAMING SNAIL FED COM #801H - OWB - PWP0	2,948.1	2,908.9	270.2	259.2	24.505	CC
*FLAMING SNAIL FED COM #802H - OWB - PWP0	3,961.4	3,923.6	188.5	175.6	14.655	CC, ES
*FLAMING SNAIL FED COM #802H - OWB - PWP0	7,350.0	7,250.7	328.0	301.1	12.208	SF
*FLAMING SNAIL FED COM #803H - OWB - PWP0	4,700.0	4,654.0	59.0	42.9	3.666	SF
*FLAMING SNAIL FED COM #803H - OWB - PWP0	4,710.5	4,664.4	59.0	42.9	3.668	CC, ES
*FLAMING SNAIL FED COM #804H - OWB - PWP0						Out of range
*FLAMING SNAIL FED COM #805H - OWB - PWP0						Out of range
CICADA UNIT #14H - OWB - AWP						Out of range
CICADA UNIT #16H - OWB - AWP						Out of range
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	2,000.0	1,999.3	59.9	53.3	9.104	CC, ES, SF
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0						Out of range
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	2,000.0	1,999.6	29.9	23.3	4.545	CC, ES
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	23,377.7	23,763.4	729.3	483.6	2.968	SF
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0						Out of range
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	9,365.2	7,526.4	401.7	158.3	1.651	Advise and Monitor, CC, ES,

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW						Out of range

TD Summary						
Site Name	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
*FLAMING SNAIL FED COM #701H - OWB - PWP0	23,377.7	24,422.9				Out of Range @TD
*FLAMING SNAIL FED COM #702H - OWB - PWP0	23,377.7	24,369.6				Out of Range @TD
*FLAMING SNAIL FED COM #703H - OWB - PWP0	23,377.7	24,381.8				Out of Range @TD
*FLAMING SNAIL FED COM #704H - OWB - PWP0	23,377.7	24,378.8				Out of Range @TD
*FLAMING SNAIL FED COM #705H - OWB - PWP0	23,377.7	24,429.2				Out of Range @TD
*FLAMING SNAIL FED COM #706H - OWB - PWP0	23,377.7	24,346.1				Out of Range @TD
*FLAMING SNAIL FED COM #707H - OWB - PWP0	23,377.7	24,239.9				Out of Range @TD
*FLAMING SNAIL FED COM #708H - OWB - PWP0	23,377.7	24,070.0				Out of Range @TD
*FLAMING SNAIL FED COM #801H - OWB - PWP0	23,377.7	25,570.8				Out of Range @TD
*FLAMING SNAIL FED COM #802H - OWB - PWP0	23,377.7	25,500.7				Out of Range @TD
*FLAMING SNAIL FED COM #803H - OWB - PWP0	23,377.7	25,812.8				Out of Range @TD
*FLAMING SNAIL FED COM #804H - OWB - PWP0	23,377.7	25,412.6				Out of Range @TD
*FLAMING SNAIL FED COM #805H - OWB - PWP0	23,377.7	25,343.3				Out of Range @TD
CICADA UNIT #14H - OWB - AWP	23,377.7	7,690.8				Out of Range @TD
CICADA UNIT #16H - OWB - AWP	23,377.7	7,692.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #501H - OWB - PWP0	23,377.7	23,450.9				Out of Range @TD
FLAMING SNAIL FEDERAL COM #503H - OWB - PWP0	23,377.7	23,316.1				Out of Range @TD
FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0	23,377.7	23,763.4	729.3	483.6	2.968	SF
FLAMING SNAIL FEDERAL COM #521H - OWB - PWP0	23,377.7	23,619.6				Out of Range @TD
LEONARDO BKL FEDERAL COM #1 - OWB - AWP	23,377.7	7,497.9				Out of Range @TD
WHITE CITY 21 25 27 FEDERAL COM #6H - OWB - AW	23,377.7	7,022.0				Out of Range @TD

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8474-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (")	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
0.0	0.0	10.4	10.4	3.0	3.0	19.80	203.4	73.2	216.2				
95.0	95.0	105.4	105.4	3.0	3.0	19.80	203.4	73.2	216.2	210.2	6.00	36.031	
100.0	100.0	110.4	110.4	3.0	3.0	19.80	203.4	73.2	216.2	210.2	6.00	36.030	
190.0	190.0	200.4	200.4	3.0	3.0	19.80	203.4	73.2	216.2	210.2	6.01	35.981	
200.0	200.0	210.4	210.4	3.0	3.0	19.80	203.4	73.2	216.2	210.2	6.01	35.973	
285.0	285.0	295.4	295.4	3.0	3.0	19.80	203.4	73.2	216.2	210.2	6.03	35.875	
300.0	300.0	310.4	310.4	3.0	3.0	19.80	203.4	73.2	216.2	210.2	6.03	35.853	
380.0	380.0	390.4	390.4	3.0	3.0	19.80	203.4	73.2	216.2	210.2	6.05	35.713	
400.0	400.0	410.4	410.4	3.0	3.0	19.80	203.4	73.2	216.2	210.2	6.06	35.672	
475.0	475.0	485.4	485.4	3.0	3.1	19.80	203.4	73.2	216.2	210.1	6.09	35.497	
500.0	500.0	510.4	510.4	3.1	3.1	19.80	203.4	73.2	216.2	210.1	6.10	35.432	
570.0	570.0	580.4	580.4	3.1	3.1	19.80	203.4	73.2	216.2	210.1	6.14	35.232	
600.0	600.0	610.4	610.4	3.1	3.1	19.80	203.4	73.2	216.2	210.1	6.15	35.138	
665.0	665.0	675.4	675.4	3.1	3.1	19.80	203.4	73.2	216.2	210.0	6.19	34.920	
700.0	700.0	710.4	710.4	3.1	3.1	19.80	203.4	73.2	216.2	210.0	6.21	34.794	
760.0	760.0	770.4	770.4	3.1	3.1	19.80	203.4	73.2	216.2	210.0	6.26	34.565	
800.0	800.0	810.4	810.4	3.2	3.2	19.80	203.4	73.2	216.2	209.9	6.28	34.404	
855.0	855.0	865.4	865.4	3.2	3.2	19.80	203.4	73.2	216.2	209.9	6.33	34.172	
900.0	900.0	910.4	910.4	3.2	3.2	19.80	203.4	73.2	216.2	209.8	6.36	33.973	
950.0	950.0	960.4	960.4	3.2	3.2	19.80	203.4	73.2	216.2	209.8	6.41	33.744	
1,000.0	1,000.0	1,010.4	1,010.4	3.2	3.2	19.80	203.4	73.2	216.2	209.8	6.45	33.507	
1,045.0	1,045.0	1,055.4	1,055.4	3.3	3.3	19.80	203.4	73.2	216.2	209.7	6.50	33.287	
1,100.0	1,100.0	1,110.4	1,110.4	3.3	3.3	19.80	203.4	73.2	216.2	209.7	6.55	33.010	
1,140.0	1,140.0	1,150.4	1,150.4	3.3	3.3	19.80	203.4	73.2	216.2	209.6	6.59	32.804	
1,200.0	1,200.0	1,210.4	1,210.4	3.4	3.4	19.80	203.4	73.2	216.2	209.6	6.66	32.487	
1,235.0	1,235.0	1,245.4	1,245.4	3.4	3.4	19.80	203.4	73.2	216.2	209.5	6.69	32.300	
1,300.0	1,300.0	1,310.4	1,310.4	3.4	3.4	19.80	203.4	73.2	216.2	209.4	6.77	31.945	
1,330.0	1,330.0	1,340.4	1,340.4	3.4	3.4	19.80	203.4	73.2	216.2	209.4	6.80	31.778	
1,400.0	1,400.0	1,410.4	1,410.4	3.5	3.5	19.80	203.4	73.2	216.2	209.3	6.89	31.386	
1,425.0	1,425.0	1,435.4	1,435.4	3.5	3.5	19.80	203.4	73.2	216.2	209.3	6.92	31.244	
1,500.0	1,500.0	1,510.4	1,510.4	3.5	3.6	19.80	203.4	73.2	216.2	209.2	7.02	30.815	
1,520.0	1,520.0	1,530.4	1,530.4	3.6	3.6	19.80	203.4	73.2	216.2	209.2	7.04	30.700	
1,600.0	1,600.0	1,610.4	1,610.4	3.6	3.6	19.80	203.4	73.2	216.2	209.1	7.15	30.237	
1,615.0	1,615.0	1,625.4	1,625.4	3.6	3.6	19.80	203.4	73.2	216.2	209.0	7.17	30.150	
1,700.0	1,700.0	1,710.4	1,710.4	3.7	3.7	19.80	203.4	73.2	216.2	208.9	7.29	29.654	
1,710.0	1,710.0	1,720.4	1,720.4	3.7	3.7	19.80	203.4	73.2	216.2	208.9	7.31	29.596	
1,800.0	1,800.0	1,810.4	1,810.4	3.8	3.8	19.80	203.4	73.2	216.2	208.8	7.44	29.071	
1,805.0	1,805.0	1,815.4	1,815.4	3.8	3.8	19.80	203.4	73.2	216.2	208.8	7.44	29.041	
1,900.0	1,900.0	1,910.4	1,910.4	3.9	3.9	19.80	203.4	73.2	216.2	208.6	7.59	28.488	
1,995.0	1,995.0	2,005.4	2,005.4	3.9	3.9	19.80	203.4	73.2	216.2	208.5	7.74	27.939	
2,000.0	2,000.0	2,010.4	2,010.4	3.9	3.9	19.80	203.4	73.2	216.2	208.5	7.75	27.910	
2,090.0	2,090.0	2,100.4	2,100.4	4.1	4.0	56.27	203.4	73.2	215.4	207.5	7.95	27.099	
2,100.0	2,100.0	2,110.4	2,110.4	4.1	4.0	56.34	203.4	73.2	215.2	207.3	7.97	27.012	
2,185.0	2,184.9	2,195.3	2,195.3	4.7	4.1	57.33	203.4	73.2	212.9	204.6	8.36	25.457	
2,200.0	2,199.8	2,210.2	2,210.2	4.8	4.1	57.57	203.4	73.2	212.4	204.0	8.43	25.197	
2,280.0	2,279.6	2,290.0	2,290.0	5.3	4.2	59.17	203.4	73.2	208.9	200.1	8.75	23.867	
2,300.0	2,299.5	2,309.9	2,309.9	5.4	4.2	59.67	203.4	73.2	207.8	199.0	8.83	23.548	
2,375.0	2,373.9	2,384.3	2,384.3	5.8	4.3	61.88	203.4	73.2	203.5	194.4	9.07	22.447	
2,400.0	2,398.7	2,409.1	2,409.1	6.0	4.3	62.74	203.4	73.2	201.9	192.8	9.13	22.106	
2,470.0	2,467.9	2,478.3	2,478.3	6.4	4.4	65.53	203.4	73.2	197.3	188.0	9.28	21.253	
2,500.0	2,497.5	2,507.4	2,507.4	6.5	4.4	66.89	203.4	73.3	195.2	185.9	9.32	20.934	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #701H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8474-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
2,565.0	2,561.3	2,567.8	2,567.8	6.9	4.4	70.16	203.8	74.0	191.5	182.1	9.36	20.450	
2,600.0	2,595.6	2,600.0	2,600.0	7.0	4.5	72.17	204.2	74.8	190.1	180.7	9.36	20.314	SF
2,660.0	2,654.2	2,655.2	2,655.1	7.3	4.5	76.00	205.3	77.0	188.9	179.6	9.29	20.331	
2,670.5	2,664.4	2,664.8	2,664.7	7.4	4.5	76.71	205.6	77.5	188.9	179.6	9.27	20.365	CC, ES
2,700.0	2,693.1	2,691.7	2,691.6	7.5	4.5	78.77	206.3	79.0	189.1	179.9	9.22	20.513	
2,725.1	2,717.4	2,714.5	2,714.3	7.6	4.5	80.59	207.1	80.4	189.7	180.6	9.14	20.749	
2,755.0	2,746.3	2,741.5	2,741.2	7.6	4.6	82.79	208.1	82.3	190.9	181.9	9.06	21.081	
2,800.0	2,789.9	2,782.1	2,781.6	7.7	4.6	86.07	209.7	85.6	193.9	185.0	8.95	21.674	
2,850.0	2,838.3	2,827.0	2,826.3	7.8	4.6	89.61	211.9	89.8	198.9	190.0	8.88	22.402	
2,900.0	2,886.7	2,871.6	2,870.6	7.9	4.6	92.99	214.4	94.7	205.4	196.6	8.84	23.228	
2,945.0	2,930.3	2,912.5	2,911.1	7.9	4.7	95.92	216.9	99.6	212.6	203.7	8.86	24.005	
3,000.0	2,983.5	2,964.9	2,963.0	8.1	4.7	99.41	220.2	106.1	222.4	213.4	8.91	24.944	
3,040.0	3,022.2	3,003.1	3,000.8	8.1	4.7	101.76	222.6	110.9	230.0	221.0	8.99	25.593	
3,100.0	3,080.3	3,060.3	3,057.4	8.3	4.8	105.03	226.2	117.9	242.1	232.9	9.12	26.535	
3,135.0	3,114.2	3,093.6	3,090.4	8.3	4.8	106.79	228.3	122.1	249.5	240.2	9.22	27.059	
3,200.0	3,177.2	3,155.6	3,151.8	8.5	4.8	109.80	232.3	129.8	263.8	254.3	9.42	28.007	
3,230.0	3,206.2	3,184.2	3,180.1	8.6	4.9	111.09	234.1	133.3	270.6	261.1	9.52	28.429	
3,300.0	3,274.0	3,250.9	3,246.2	8.7	4.9	113.86	238.3	141.6	287.0	277.2	9.76	29.392	
3,325.0	3,298.2	3,274.7	3,269.8	8.8	4.9	114.77	239.8	144.5	293.0	283.2	9.86	29.726	
3,400.0	3,370.8	3,346.2	3,340.6	9.0	5.0	117.31	244.3	153.4	311.5	301.3	10.14	30.711	
3,420.0	3,390.1	3,365.3	3,359.5	9.0	5.0	117.94	245.5	155.8	316.5	306.3	10.22	30.967	
3,500.0	3,467.6	3,441.5	3,435.0	9.2	5.1	120.27	250.3	165.2	336.9	326.3	10.53	31.975	
3,515.0	3,482.1	3,455.8	3,449.1	9.3	5.1	120.68	251.3	167.0	340.7	330.1	10.60	32.159	
3,600.0	3,564.4	3,536.9	3,529.4	9.5	5.1	122.82	256.4	177.0	363.0	352.0	10.94	33.188	
3,610.0	3,574.1	3,546.4	3,538.8	9.5	5.1	123.06	257.0	178.2	365.6	354.7	10.98	33.306	
3,700.0	3,661.2	3,632.2	3,623.8	9.8	5.2	125.03	262.4	188.8	389.7	378.4	11.34	34.351	
3,705.0	3,666.1	3,636.9	3,628.5	9.8	5.2	125.14	262.7	189.4	391.1	379.7	11.37	34.408	
3,800.0	3,758.0	3,727.5	3,718.1	10.1	5.3	126.96	268.4	200.7	416.9	405.2	11.76	35.466	
3,895.0	3,850.0	3,818.1	3,807.8	10.3	5.4	128.58	274.2	211.9	443.1	431.0	12.15	36.478	
3,900.0	3,854.8	3,822.8	3,812.5	10.3	5.4	128.66	274.5	212.5	444.5	432.4	12.17	36.530	
3,990.0	3,942.0	3,908.6	3,897.5	10.6	5.5	130.02	279.9	223.1	469.6	457.1	12.54	37.446	
4,000.0	3,951.7	3,918.1	3,906.9	10.6	5.5	130.16	280.5	224.3	472.4	459.9	12.58	37.545	
4,085.0	4,034.0	3,999.2	3,987.2	10.9	5.5	131.30	285.6	234.3	496.4	483.5	12.94	38.369	
4,100.0	4,048.5	4,013.5	4,001.3	10.9	5.6	131.49	286.5	236.1	500.6	487.6	13.00	38.511	
4,180.0	4,125.9	4,089.7	4,076.8	11.2	5.6	132.45	291.3	245.6	523.3	510.0	13.33	39.249	
4,200.0	4,145.3	4,108.8	4,095.7	11.3	5.6	132.68	292.5	247.9	529.0	515.6	13.42	39.429	
4,275.0	4,217.9	4,180.3	4,166.5	11.5	5.7	133.50	297.1	256.8	550.5	536.8	13.73	40.086	
4,300.0	4,242.1	4,204.1	4,190.1	11.6	5.7	133.75	298.6	259.8	557.7	543.8	13.84	40.300	
4,370.0	4,309.9	4,270.8	4,256.2	11.8	5.8	134.44	302.8	268.0	577.8	563.6	14.13	40.882	
4,400.0	4,338.9	4,299.4	4,284.5	11.9	5.8	134.72	304.6	271.6	586.4	572.2	14.26	41.125	
4,465.0	4,401.8	4,361.4	4,345.9	12.1	5.9	135.30	308.5	279.2	605.2	590.7	14.54	41.637	
4,500.0	4,435.7	4,394.7	4,378.9	12.2	5.9	135.60	310.6	283.4	615.3	600.7	14.68	41.907	
4,560.0	4,493.8	4,451.9	4,435.5	12.4	6.0	136.09	314.2	290.5	632.7	617.8	14.94	42.355	
4,600.0	4,532.5	4,490.1	4,473.3	12.5	6.0	136.40	316.7	295.2	644.4	629.3	15.11	42.647	
4,655.0	4,585.8	4,542.5	4,525.2	12.7	6.1	136.81	320.0	301.7	660.4	645.0	15.35	43.036	
4,700.0	4,629.4	4,585.4	4,567.7	12.9	6.1	137.13	322.7	307.0	673.5	658.0	15.54	43.346	
4,750.0	4,677.8	4,633.0	4,614.9	13.0	6.2	137.47	325.7	312.9	688.1	672.4	15.75	43.682	
4,800.0	4,726.2	4,680.7	4,662.1	13.2	6.2	137.80	328.7	318.8	702.7	686.8	15.97	44.008	
4,845.0	4,769.7	4,723.6	4,704.5	13.4	6.3	138.09	331.4	324.2	715.9	699.8	16.16	44.294	
4,900.0	4,823.0	4,776.0	4,756.5	13.5	6.3	138.42	334.7	330.7	732.1	715.7	16.40	44.634	
4,940.0	4,861.7	4,814.1	4,794.2	13.7	6.3	138.65	337.2	335.4	743.8	727.2	16.58	44.874	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design:		FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #701H - OWB - PWP0											Offset Site Error:		0.0 usft
Survey Program:		0-Standard Keeper 104, 8474-MWD+IFR1+FDIR											Offset Well Error:		3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned:						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
5,000.0	4,919.8	4,871.3	4,850.8	13.9	6.4	138.99	340.8	342.5	761.4	744.6	16.84	45.225			
5,035.0	4,953.7	4,904.7	4,883.9	14.0	6.4	139.18	342.9	346.6	771.7	754.7	16.99	45.425			
5,100.0	5,016.6	4,966.7	4,945.2	14.2	6.5	139.52	346.8	354.3	790.9	773.6	17.27	45.785			
5,130.0	5,045.7	4,995.2	4,973.6	14.3	6.5	139.67	348.6	357.8	799.7	782.3	17.41	45.947			
5,200.0	5,113.4	5,062.0	5,039.6	14.6	6.6	140.01	352.8	366.1	820.4	802.7	17.71	46.313			
5,225.0	5,137.6	5,085.8	5,063.2	14.7	6.6	140.12	354.3	369.1	827.8	810.0	17.82	46.441			
5,300.0	5,210.2	5,157.3	5,134.0	14.9	6.7	140.46	358.9	377.9	850.0	831.8	18.16	46.813			
5,320.0	5,229.6	5,176.4	5,152.9	15.0	6.7	140.55	360.1	380.3	855.9	837.6	18.24	46.910			
5,400.0	5,307.1	5,252.6	5,228.4	15.3	6.8	140.89	364.9	389.7	879.6	861.0	18.60	47.286			
5,415.0	5,321.6	5,266.9	5,242.6	15.3	6.8	140.95	365.8	391.5	884.0	865.3	18.67	47.354			
5,500.0	5,403.9	5,347.9	5,322.8	15.6	6.9	141.29	370.9	401.6	909.2	890.2	19.05	47.733			
5,510.0	5,413.6	5,357.5	5,332.2	15.7	6.9	141.32	371.5	402.7	912.2	893.1	19.09	47.776			
5,600.0	5,500.7	5,443.3	5,417.2	16.0	7.0	141.66	376.9	413.4	938.9	919.4	19.50	48.156			
5,605.0	5,505.5	5,448.0	5,421.9	16.0	7.0	141.68	377.2	414.0	940.4	920.8	19.52	48.176			
5,695.0	5,592.6	5,533.8	5,506.8	16.3	7.1	141.99	382.7	424.6	967.1	947.2	19.93	48.536			
5,700.0	5,597.5	5,538.6	5,511.6	16.3	7.1	142.03	383.0	425.2	968.6	948.6	19.95	48.556			
5,795.0	5,689.9	5,629.6	5,601.7	16.7	7.2	142.62	388.7	436.5	995.5	975.1	20.39	48.820			
5,800.0	5,694.8	5,634.4	5,606.5	16.7	7.2	142.65	389.0	437.1	996.9	976.5	20.42	48.830			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8534-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
0.0	0.0	10.4	10.4	3.0	3.0	12.00	203.5	43.2	208.0					
95.0	95.0	105.4	105.4	3.0	3.0	12.00	203.5	43.2	208.0	202.0	6.00	34.663		
100.0	100.0	110.4	110.4	3.0	3.0	12.00	203.5	43.2	208.0	202.0	6.00	34.662		
190.0	190.0	200.4	200.4	3.0	3.0	12.00	203.5	43.2	208.0	202.0	6.01	34.612		
200.0	200.0	210.4	210.4	3.0	3.0	12.00	203.5	43.2	208.0	202.0	6.01	34.604		
285.0	285.0	295.4	295.4	3.0	3.0	12.00	203.5	43.2	208.0	202.0	6.03	34.504		
300.0	300.0	310.4	310.4	3.0	3.0	12.00	203.5	43.2	208.0	202.0	6.03	34.482		
380.0	380.0	390.4	390.4	3.0	3.0	12.00	203.5	43.2	208.0	201.9	6.06	34.339		
400.0	400.0	410.4	410.4	3.0	3.0	12.00	203.5	43.2	208.0	201.9	6.06	34.298		
475.0	475.0	485.4	485.4	3.0	3.1	12.00	203.5	43.2	208.0	201.9	6.10	34.121		
500.0	500.0	510.4	510.4	3.1	3.1	12.00	203.5	43.2	208.0	201.9	6.11	34.055		
570.0	570.0	580.4	580.4	3.1	3.1	12.00	203.5	43.2	208.0	201.9	6.14	33.853		
600.0	600.0	610.4	610.4	3.1	3.1	12.00	203.5	43.2	208.0	201.8	6.16	33.758		
665.0	665.0	675.4	675.4	3.1	3.1	12.00	203.5	43.2	208.0	201.8	6.20	33.537		
700.0	700.0	710.4	710.4	3.1	3.1	12.00	203.5	43.2	208.0	201.8	6.23	33.410		
760.0	760.0	770.4	770.4	3.1	3.1	12.00	203.5	43.2	208.0	201.7	6.27	33.179		
800.0	800.0	810.4	810.4	3.2	3.2	12.00	203.5	43.2	208.0	201.7	6.30	33.016		
855.0	855.0	865.4	865.4	3.2	3.2	12.00	203.5	43.2	208.0	201.7	6.35	32.782		
900.0	900.0	910.4	910.4	3.2	3.2	12.00	203.5	43.2	208.0	201.6	6.38	32.582		
950.0	950.0	960.4	960.4	3.2	3.2	12.00	203.5	43.2	208.0	201.6	6.43	32.352		
1,000.0	1,000.0	1,010.4	1,010.4	3.2	3.2	12.00	203.5	43.2	208.0	201.5	6.48	32.113		
1,045.0	1,045.0	1,055.4	1,055.4	3.3	3.3	12.00	203.5	43.2	208.0	201.5	6.52	31.892		
1,100.0	1,100.0	1,110.4	1,110.4	3.3	3.3	12.00	203.5	43.2	208.0	201.4	6.58	31.614		
1,140.0	1,140.0	1,150.4	1,150.4	3.3	3.3	12.00	203.5	43.2	208.0	201.4	6.62	31.408		
1,200.0	1,200.0	1,210.4	1,210.4	3.4	3.4	12.00	203.5	43.2	208.0	201.3	6.69	31.091		
1,235.0	1,235.0	1,245.4	1,245.4	3.4	3.4	12.00	203.5	43.2	208.0	201.3	6.73	30.903		
1,300.0	1,300.0	1,310.4	1,310.4	3.4	3.4	12.00	203.5	43.2	208.0	201.2	6.81	30.549		
1,330.0	1,330.0	1,340.4	1,340.4	3.4	3.4	12.00	203.5	43.2	208.0	201.2	6.85	30.383		
1,400.0	1,400.0	1,410.4	1,410.4	3.5	3.5	12.00	203.5	43.2	208.0	201.1	6.94	29.992		
1,425.0	1,425.0	1,435.4	1,435.4	3.5	3.5	12.00	203.5	43.2	208.0	201.0	6.97	29.851		
1,500.0	1,500.0	1,510.4	1,510.4	3.5	3.6	12.00	203.5	43.2	208.0	200.9	7.07	29.424		
1,520.0	1,520.0	1,530.4	1,530.4	3.6	3.6	12.00	203.5	43.2	208.0	200.9	7.10	29.310		
1,600.0	1,600.0	1,610.4	1,610.4	3.6	3.6	12.00	203.5	43.2	208.0	200.8	7.21	28.850		
1,615.0	1,615.0	1,625.4	1,625.4	3.6	3.6	12.00	203.5	43.2	208.0	200.8	7.23	28.764		
1,700.0	1,700.0	1,710.4	1,710.4	3.7	3.7	12.00	203.5	43.2	208.0	200.6	7.36	28.274		
1,710.0	1,710.0	1,720.4	1,720.4	3.7	3.7	12.00	203.5	43.2	208.0	200.6	7.37	28.216		
1,800.0	1,800.0	1,810.4	1,810.4	3.8	3.8	12.00	203.5	43.2	208.0	200.5	7.51	27.697		
1,805.0	1,805.0	1,815.4	1,815.4	3.8	3.8	12.00	203.5	43.2	208.0	200.5	7.52	27.668		
1,900.0	1,900.0	1,910.4	1,910.4	3.9	3.9	12.00	203.5	43.2	208.0	200.3	7.67	27.123		
1,995.0	1,995.0	2,005.4	2,005.4	3.9	3.9	12.00	203.5	43.2	208.0	200.2	7.82	26.582		
2,000.0	2,000.0	2,010.4	2,010.4	3.9	3.9	12.00	203.5	43.2	208.0	200.2	7.83	26.554		
2,090.0	2,090.0	2,100.4	2,100.4	4.1	4.0	48.45	203.5	43.2	207.1	199.0	8.06	25.685		
2,100.0	2,100.0	2,110.4	2,110.4	4.1	4.0	48.52	203.5	43.2	206.8	198.8	8.08	25.585		
2,185.0	2,184.9	2,195.3	2,195.3	4.7	4.1	49.45	203.5	43.2	204.1	195.5	8.56	23.852		
2,200.0	2,199.8	2,210.2	2,210.2	4.8	4.1	49.68	203.5	43.2	203.4	194.8	8.64	23.552		
2,280.0	2,279.6	2,290.0	2,290.0	5.3	4.2	51.21	203.5	43.2	199.1	190.1	9.03	22.057		
2,300.0	2,299.5	2,309.9	2,309.9	5.4	4.2	51.68	203.5	43.2	197.9	188.8	9.12	21.692		
2,375.0	2,373.9	2,384.3	2,384.3	5.8	4.3	53.82	203.5	43.2	192.5	183.1	9.43	20.418		
2,400.0	2,398.7	2,409.1	2,409.1	6.0	4.3	54.66	203.5	43.2	190.5	181.0	9.52	20.012		
2,470.0	2,467.9	2,478.3	2,478.3	6.4	4.4	57.42	203.5	43.2	184.6	174.8	9.73	18.966		
2,500.0	2,497.5	2,507.4	2,507.4	6.5	4.4	58.78	203.5	43.2	181.9	172.1	9.80	18.554		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8534-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
2,565.0	2,561.3	2,567.6	2,567.6	6.9	4.5	61.97	204.2	43.6	176.7	166.8	9.91	17.842	
2,600.0	2,595.6	2,600.0	2,600.0	7.0	4.5	63.90	205.1	44.0	174.5	164.6	9.93	17.567	
2,660.0	2,654.2	2,655.4	2,655.3	7.3	4.5	67.53	207.3	45.0	171.7	161.8	9.93	17.300	
2,700.0	2,693.1	2,692.3	2,692.2	7.5	4.6	70.15	209.4	45.9	170.7	160.8	9.89	17.265 SF	
2,725.1	2,717.4	2,715.5	2,715.3	7.6	4.6	71.86	210.9	46.5	170.4	160.6	9.81	17.366 ES	
2,732.9	2,724.9	2,722.6	2,722.4	7.6	4.6	72.40	211.4	46.8	170.4	160.6	9.79	17.404 CC	
2,755.0	2,746.3	2,743.0	2,742.7	7.6	4.6	73.92	212.9	47.4	170.5	160.8	9.73	17.533	
2,800.0	2,789.9	2,786.5	2,786.1	7.7	4.7	77.13	216.3	49.0	171.5	161.9	9.61	17.854	
2,850.0	2,838.3	2,835.3	2,834.6	7.8	4.7	80.66	220.2	50.7	173.3	163.8	9.51	18.225	
2,900.0	2,886.7	2,884.0	2,883.2	7.9	4.7	84.12	224.1	52.4	175.7	166.3	9.43	18.639	
2,945.0	2,930.3	2,927.9	2,926.9	7.9	4.8	87.15	227.6	54.0	178.4	169.1	9.39	19.013	
3,000.0	2,983.5	2,981.6	2,980.4	8.1	4.8	90.71	231.9	55.9	182.5	173.1	9.36	19.490	
3,040.0	3,022.2	3,020.6	3,019.2	8.1	4.9	93.21	235.0	57.3	185.9	176.5	9.37	19.833	
3,100.0	3,080.3	3,079.1	3,077.5	8.3	4.9	96.78	239.6	59.4	191.6	182.2	9.42	20.346	
3,135.0	3,114.2	3,113.2	3,111.5	8.3	5.0	98.77	242.3	60.6	195.3	185.8	9.46	20.635	
3,200.0	3,177.2	3,176.6	3,174.7	8.5	5.0	102.26	247.4	62.8	202.7	193.1	9.58	21.162	
3,230.0	3,206.2	3,205.9	3,203.8	8.6	5.1	103.79	249.7	63.8	206.4	196.7	9.65	21.395	
3,300.0	3,274.0	3,274.2	3,271.9	8.7	5.1	107.15	255.1	66.3	215.5	205.7	9.83	21.929	
3,325.0	3,298.2	3,298.6	3,296.1	8.8	5.1	108.29	257.1	67.1	218.9	209.0	9.90	22.113	
3,400.0	3,370.8	3,371.7	3,369.0	9.0	5.2	111.49	262.9	69.7	229.7	219.6	10.14	22.656	
3,420.0	3,390.1	3,391.2	3,388.4	9.0	5.2	112.29	264.5	70.4	232.7	222.5	10.21	22.797	
3,500.0	3,467.6	3,469.2	3,466.2	9.2	5.3	115.31	270.7	73.2	245.1	234.6	10.50	23.353	
3,515.0	3,482.1	3,483.9	3,480.8	9.3	5.3	115.84	271.8	73.7	247.5	236.9	10.55	23.455	
3,600.0	3,564.4	3,566.8	3,563.3	9.5	5.4	118.68	278.4	76.6	261.4	250.6	10.88	24.028	
3,610.0	3,574.1	3,576.5	3,573.1	9.5	5.4	118.99	279.2	77.0	263.1	252.2	10.92	24.095	
3,700.0	3,661.2	3,664.3	3,660.5	9.8	5.5	121.65	286.2	80.1	278.6	267.3	11.28	24.686	
3,705.0	3,666.1	3,669.2	3,665.4	9.8	5.5	121.79	286.6	80.3	279.5	268.1	11.31	24.719	
3,800.0	3,758.0	3,761.8	3,757.7	10.1	5.6	124.27	294.0	83.6	296.4	284.7	11.70	25.329	
3,895.0	3,850.0	3,854.5	3,850.0	10.3	5.7	126.49	301.3	86.9	313.8	301.7	12.10	25.924	
3,900.0	3,854.8	3,859.4	3,854.8	10.3	5.7	126.60	301.7	87.0	314.7	302.6	12.13	25.955	
3,990.0	3,942.0	3,947.1	3,942.3	10.6	5.8	128.48	308.7	90.1	331.6	319.1	12.51	26.504	
4,000.0	3,951.7	3,956.9	3,952.0	10.6	5.8	128.68	309.5	90.5	333.5	320.9	12.55	26.564	
4,085.0	4,034.0	4,039.8	4,034.6	10.9	5.9	130.26	316.1	93.4	349.8	336.8	12.92	27.068	
4,100.0	4,048.5	4,054.4	4,049.1	10.9	5.9	130.53	317.3	93.9	352.7	339.7	12.99	27.156	
4,180.0	4,125.9	4,132.4	4,126.9	11.2	6.0	131.87	323.5	96.7	368.2	354.9	13.33	27.615	
4,200.0	4,145.3	4,152.0	4,146.3	11.3	6.0	132.19	325.0	97.4	372.2	358.7	13.42	27.728	
4,275.0	4,217.9	4,225.1	4,219.2	11.5	6.1	133.33	330.9	100.0	387.0	373.2	13.75	28.144	
4,300.0	4,242.1	4,249.5	4,243.5	11.6	6.1	133.69	332.8	100.9	391.9	378.1	13.86	28.281	
4,370.0	4,309.9	4,317.8	4,311.5	11.8	6.2	134.65	338.2	103.3	405.9	391.7	14.17	28.656	
4,400.0	4,338.9	4,347.0	4,340.6	11.9	6.3	135.04	340.6	104.3	411.9	397.6	14.30	28.814	
4,465.0	4,401.8	4,410.4	4,403.8	12.1	6.3	135.86	345.6	106.6	425.1	410.5	14.58	29.149	
4,500.0	4,435.7	4,444.5	4,437.8	12.2	6.4	136.27	348.3	107.8	432.1	417.4	14.74	29.326	
4,560.0	4,493.8	4,503.1	4,496.1	12.4	6.4	136.96	353.0	109.9	444.4	429.4	15.00	29.624	
4,600.0	4,532.5	4,542.1	4,534.9	12.5	6.5	137.39	356.1	111.2	452.5	437.4	15.18	29.818	
4,655.0	4,585.8	4,595.7	4,588.4	12.7	6.5	137.97	360.4	113.1	463.8	448.4	15.42	30.080	
4,700.0	4,629.4	4,639.6	4,632.1	12.9	6.6	138.42	363.9	114.7	473.1	457.4	15.62	30.291	
4,750.0	4,677.8	4,688.4	4,680.7	13.0	6.6	138.90	367.7	116.4	483.4	467.5	15.84	30.519	
4,800.0	4,726.2	4,737.1	4,729.3	13.2	6.7	139.36	371.6	118.2	493.7	477.7	16.06	30.743	
4,845.0	4,769.7	4,781.0	4,773.0	13.4	6.7	139.75	375.1	119.7	503.1	486.8	16.26	30.941	
4,900.0	4,823.0	4,834.7	4,826.4	13.5	6.8	140.22	379.4	121.6	514.5	498.0	16.50	31.177	
4,940.0	4,861.7	4,873.7	4,865.3	13.7	6.8	140.55	382.5	123.0	522.9	506.2	16.68	31.345	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #702H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 8534-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.0	4,919.8	4,932.2	4,923.6	13.9	6.9	141.02	387.1	125.1	535.4	518.5	16.95	31.592		
5,035.0	4,953.7	4,966.3	4,957.6	14.0	6.9	141.28	389.9	126.3	542.7	525.6	17.10	31.733		
5,100.0	5,016.6	5,029.7	5,020.7	14.2	7.0	141.75	394.9	128.5	556.4	539.0	17.39	31.989		
5,130.0	5,045.7	5,059.0	5,049.9	14.3	7.1	141.96	397.2	129.6	562.7	545.2	17.53	32.104		
5,200.0	5,113.4	5,127.3	5,117.9	14.6	7.1	142.44	402.7	132.0	577.5	559.6	17.84	32.369		
5,225.0	5,137.6	5,151.7	5,142.2	14.7	7.2	142.60	404.6	132.9	582.7	564.8	17.95	32.461		
5,300.0	5,210.2	5,224.8	5,215.1	14.9	7.2	143.07	410.4	135.5	598.6	580.3	18.29	32.732		
5,320.0	5,229.6	5,244.3	5,234.5	15.0	7.3	143.20	412.0	136.2	602.8	584.4	18.38	32.802		
5,400.0	5,307.1	5,322.3	5,312.2	15.3	7.4	143.67	418.2	138.9	619.8	601.1	18.74	33.079		
5,415.0	5,321.6	5,337.0	5,326.8	15.3	7.4	143.75	419.4	139.4	623.0	604.2	18.80	33.130		
5,500.0	5,403.9	5,419.9	5,409.4	15.6	7.5	144.22	426.0	142.4	641.1	621.9	19.19	33.411		
5,510.0	5,413.6	5,429.6	5,419.1	15.7	7.5	144.27	426.7	142.7	643.2	623.9	19.23	33.443		
5,600.0	5,500.7	5,517.4	5,506.5	16.0	7.6	144.74	433.7	145.8	662.4	642.7	19.64	33.729		
5,605.0	5,505.5	5,522.3	5,511.4	16.0	7.6	144.76	434.1	146.0	663.4	643.8	19.66	33.744		
5,695.0	5,592.6	5,610.0	5,598.8	16.3	7.7	145.20	441.1	149.1	682.7	662.6	20.07	34.017		
5,700.0	5,597.5	5,614.9	5,603.7	16.3	7.7	145.24	441.5	149.3	683.7	663.6	20.09	34.032		
5,795.0	5,689.9	5,707.9	5,696.4	16.7	7.8	145.81	448.9	152.6	702.7	682.1	20.53	34.219		
5,800.0	5,694.8	5,712.8	5,701.2	16.7	7.8	145.83	449.3	152.8	703.6	683.0	20.56	34.226		
5,890.0	5,783.0	5,801.5	5,789.5	17.2	7.9	146.19	456.4	155.9	719.0	698.0	21.02	34.213		
5,900.0	5,792.8	5,811.3	5,799.4	17.2	7.9	146.21	457.1	156.3	720.6	699.5	21.07	34.205		
5,985.0	5,876.6	5,895.5	5,883.2	17.6	8.0	146.39	463.8	159.2	732.8	711.4	21.49	34.103		
6,000.0	5,891.4	5,910.3	5,898.0	17.7	8.0	146.40	465.0	159.8	734.8	713.2	21.56	34.076		
6,080.0	5,970.7	5,990.2	5,977.6	18.0	8.1	146.44	471.1	162.5	744.0	722.1	21.95	33.898		
6,100.0	5,990.6	6,010.3	5,997.6	18.1	8.2	146.44	472.5	163.1	746.0	724.0	22.05	33.841		
6,175.0	6,065.2	6,085.6	6,072.7	18.5	8.3	146.44	477.2	165.2	752.5	730.1	22.40	33.599		
6,200.0	6,090.2	6,110.7	6,097.8	18.6	8.3	146.43	478.5	165.8	754.3	731.8	22.51	33.505		
6,270.0	6,160.0	6,181.2	6,168.2	18.9	8.4	146.40	481.8	167.2	758.3	735.5	22.83	33.219		
6,300.0	6,190.0	6,211.4	6,198.4	19.0	8.4	146.38	482.9	167.8	759.6	736.6	22.96	33.080		
6,365.0	6,254.9	6,277.0	6,263.9	19.3	8.5	146.31	484.9	168.6	761.4	738.1	23.24	32.761		
6,400.0	6,289.9	6,312.3	6,299.2	19.5	8.5	146.27	485.7	169.0	761.8	738.4	23.39	32.569		
6,420.1	6,310.0	6,332.5	6,319.5	19.5	8.5	110.10	486.1	169.2	761.9	738.4	23.46	32.475		
6,460.0	6,349.9	6,372.8	6,359.8	19.6	8.6	110.06	486.6	169.4	761.9	738.3	23.60	32.285		
6,500.0	6,389.9	6,413.2	6,400.1	19.7	8.6	110.04	486.9	169.5	761.9	738.2	23.74	32.094		
6,555.0	6,444.9	6,468.4	6,455.3	19.9	8.7	110.03	486.9	169.5	762.0	738.0	23.94	31.828		
6,600.0	6,489.9	6,513.4	6,500.3	20.0	8.8	110.03	486.9	169.5	762.0	737.8	24.10	31.613		
6,650.0	6,539.9	6,563.4	6,550.3	20.2	8.8	110.03	486.9	169.5	762.0	737.7	24.28	31.376		
6,700.0	6,589.9	6,613.4	6,600.3	20.3	8.9	110.03	486.9	169.5	762.0	737.5	24.47	31.143		
6,745.0	6,634.9	6,658.4	6,645.3	20.4	8.9	110.03	486.9	169.5	762.0	737.3	24.63	30.934		
6,800.0	6,689.9	6,713.4	6,700.3	20.6	9.0	110.03	486.9	169.5	762.0	737.1	24.83	30.683		
6,840.0	6,729.9	6,753.4	6,740.3	20.7	9.1	110.03	486.9	169.5	762.0	737.0	24.98	30.502		
6,900.0	6,789.9	6,813.4	6,800.3	20.9	9.1	110.03	486.9	169.5	762.0	736.7	25.20	30.234		
6,935.0	6,824.9	6,848.4	6,835.3	21.0	9.2	110.03	486.9	169.5	762.0	736.6	25.33	30.080		
7,000.0	6,889.9	6,913.4	6,900.3	21.2	9.3	110.03	486.9	169.5	762.0	736.4	25.57	29.796		
7,030.0	6,919.9	6,943.4	6,930.3	21.3	9.3	110.03	486.9	169.5	762.0	736.3	25.68	29.666		
7,093.1	6,983.0	7,006.5	6,993.4	21.4	9.4	110.03	486.9	169.5	762.0	736.0	25.92	29.397		
7,100.0	6,989.9	7,013.4	7,000.3	21.5	9.4	-70.43	486.9	169.5	761.9	736.0	25.93	29.379		
7,125.0	7,014.9	7,038.4	7,025.3	21.5	9.4	-70.51	486.9	169.5	761.7	735.7	25.95	29.352		
7,150.0	7,039.9	7,063.3	7,050.3	21.5	9.4	-70.71	486.9	169.5	761.0	735.1	25.96	29.316		
7,200.0	7,089.3	7,112.8	7,099.7	21.7	9.5	-71.43	486.9	169.5	758.7	732.7	25.97	29.209		
7,220.0	7,108.9	7,132.4	7,119.3	21.8	9.5	-71.84	486.9	169.5	757.4	731.4	25.97	29.159		
7,250.0	7,138.0	7,161.5	7,148.4	21.9	9.6	-72.58	486.9	169.5	755.1	729.1	25.97	29.076		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #702H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8534-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
7,300.0	7,185.5	7,209.0	7,195.9	22.1	9.6	-74.11	486.9	169.5	750.4	724.4	25.94	28.926	
7,315.0	7,199.4	7,222.9	7,209.8	22.1	9.6	-74.65	486.9	169.5	748.8	722.9	25.93	28.878	
7,350.0	7,231.4	7,254.9	7,241.8	22.2	9.7	-76.00	486.9	169.5	744.9	719.0	25.90	28.765	
7,400.0	7,275.5	7,299.0	7,285.9	22.4	9.7	-78.16	486.9	169.5	738.9	713.1	25.83	28.602	
7,410.0	7,284.0	7,307.5	7,294.4	22.4	9.7	-78.61	486.9	169.5	737.7	711.9	25.82	28.570	
7,450.0	7,317.3	7,340.8	7,327.7	22.6	9.8	-80.51	486.9	169.5	732.9	707.2	25.77	28.444	
7,500.0	7,356.6	7,380.1	7,367.0	22.7	9.8	-82.97	486.9	169.5	727.3	701.6	25.70	28.298	
7,505.0	7,360.4	7,383.8	7,370.8	22.7	9.8	-83.21	486.9	169.5	726.8	701.1	25.70	28.284	
7,550.0	7,393.0	7,416.5	7,403.4	22.8	9.9	-85.40	486.9	169.5	722.6	697.0	25.65	28.168	
7,600.0	7,426.4	7,449.8	7,436.8	22.9	9.9	-87.71	486.9	169.5	719.3	693.7	25.63	28.061	
7,650.0	7,456.3	7,479.8	7,466.7	23.0	9.9	-89.76	486.9	169.5	717.9	692.3	25.66	27.979	
7,656.4	7,459.9	7,483.4	7,470.3	23.0	10.0	-90.00	486.9	169.5	717.9	692.2	25.67	27.970	
7,695.0	7,480.2	7,503.7	7,490.6	23.1	10.0	-91.30	486.9	169.5	718.6	692.9	25.73	27.932	
7,700.0	7,482.7	7,506.1	7,493.1	23.1	10.0	-91.45	486.9	169.5	718.9	693.1	25.74	27.929	
7,750.0	7,505.2	7,528.7	7,515.6	23.1	10.0	-92.68	486.9	169.5	722.5	696.7	25.88	27.917	
7,790.0	7,520.4	7,543.9	7,530.8	23.2	10.0	-93.29	486.9	169.5	727.7	701.6	26.04	27.941	
7,800.0	7,523.8	7,547.2	7,534.2	23.2	10.0	-93.38	486.9	169.5	729.2	703.2	26.09	27.953	
7,850.0	7,538.2	7,561.7	7,548.6	23.2	10.0	-93.47	486.9	169.5	739.2	712.8	26.35	28.047	
7,885.0	7,545.8	7,569.3	7,556.2	23.3	10.1	-93.14	486.9	169.5	748.0	721.5	26.57	28.153	
7,900.0	7,548.5	7,571.9	7,558.9	23.3	10.1	-92.90	486.9	169.5	752.3	725.6	26.67	28.211	
7,950.0	7,554.4	7,577.9	7,564.8	23.3	10.1	-91.65	486.9	169.5	768.6	741.6	27.01	28.453	
7,980.0	7,555.9	7,579.3	7,566.3	23.3	10.1	-90.56	486.9	169.5	779.8	752.6	27.23	28.639	
7,994.3	7,556.0	7,579.5	7,566.4	23.3	10.1	-89.95	486.9	169.5	785.5	758.2	27.33	28.738	
8,000.0	7,556.0	7,579.5	7,566.4	23.3	10.1	-89.95	486.9	169.5	787.8	760.5	27.37	28.780	
8,075.0	7,555.8	7,579.3	7,566.2	23.3	10.1	-89.94	486.9	169.5	821.6	793.6	27.93	29.413	
8,100.0	7,555.8	7,579.3	7,566.2	23.3	10.1	-89.93	486.9	169.5	834.0	805.9	28.11	29.666	
8,170.0	7,555.6	7,579.1	7,566.0	23.3	10.1	-89.92	486.9	169.5	871.7	843.1	28.62	30.461	
8,200.0	7,555.6	7,579.1	7,566.0	23.3	10.1	-89.92	486.9	169.5	889.1	860.3	28.82	30.848	
8,265.0	7,555.5	7,578.9	7,565.9	23.3	10.1	-89.91	486.9	169.5	928.9	899.7	29.25	31.761	
8,300.0	7,555.4	7,578.9	7,565.8	23.3	10.1	-89.90	486.9	169.5	951.5	922.1	29.46	32.300	
8,360.0	7,555.3	7,578.7	7,565.7	23.4	10.1	-89.89	486.9	169.5	991.9	962.1	29.80	33.283	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8446-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)						
0.0	0.0	10.4	10.4	3.0	3.0	3.72	203.5	13.2	203.9					
95.0	95.0	105.4	105.4	3.0	3.0	3.72	203.5	13.2	203.9	197.9	6.00	33.984		
100.0	100.0	110.4	110.4	3.0	3.0	3.72	203.5	13.2	203.9	197.9	6.00	33.983		
190.0	190.0	200.4	200.4	3.0	3.0	3.72	203.5	13.2	203.9	197.9	6.01	33.933		
200.0	200.0	210.4	210.4	3.0	3.0	3.72	203.5	13.2	203.9	197.9	6.01	33.924		
285.0	285.0	295.4	295.4	3.0	3.0	3.72	203.5	13.2	203.9	197.9	6.03	33.823		
300.0	300.0	310.4	310.4	3.0	3.0	3.72	203.5	13.2	203.9	197.9	6.03	33.801		
380.0	380.0	390.4	390.4	3.0	3.0	3.72	203.5	13.2	203.9	197.9	6.06	33.657		
400.0	400.0	410.4	410.4	3.0	3.0	3.72	203.5	13.2	203.9	197.9	6.07	33.615		
475.0	475.0	485.4	485.4	3.0	3.1	3.72	203.5	13.2	203.9	197.8	6.10	33.438		
500.0	500.0	510.4	510.4	3.1	3.1	3.72	203.5	13.2	203.9	197.8	6.11	33.371		
570.0	570.0	580.4	580.4	3.1	3.1	3.72	203.5	13.2	203.9	197.8	6.15	33.167		
600.0	600.0	610.4	610.4	3.1	3.1	3.72	203.5	13.2	203.9	197.8	6.17	33.072		
665.0	665.0	675.4	675.4	3.1	3.1	3.72	203.5	13.2	203.9	197.7	6.21	32.849		
700.0	700.0	710.4	710.4	3.1	3.1	3.72	203.5	13.2	203.9	197.7	6.23	32.721		
760.0	760.0	770.4	770.4	3.1	3.1	3.72	203.5	13.2	203.9	197.7	6.28	32.489		
800.0	800.0	810.4	810.4	3.2	3.2	3.72	203.5	13.2	203.9	197.6	6.31	32.326		
855.0	855.0	865.4	865.4	3.2	3.2	3.72	203.5	13.2	203.9	197.6	6.35	32.090		
900.0	900.0	910.4	910.4	3.2	3.2	3.72	203.5	13.2	203.9	197.5	6.39	31.890		
950.0	950.0	960.4	960.4	3.2	3.2	3.72	203.5	13.2	203.9	197.5	6.44	31.658		
1,000.0	1,000.0	1,010.4	1,010.4	3.2	3.2	3.72	203.5	13.2	203.9	197.4	6.49	31.419		
1,045.0	1,045.0	1,055.4	1,055.4	3.3	3.3	3.72	203.5	13.2	203.9	197.4	6.54	31.197		
1,100.0	1,100.0	1,110.4	1,110.4	3.3	3.3	3.72	203.5	13.2	203.9	197.3	6.60	30.919		
1,140.0	1,140.0	1,150.4	1,150.4	3.3	3.3	3.72	203.5	13.2	203.9	197.3	6.64	30.713		
1,200.0	1,200.0	1,210.4	1,210.4	3.4	3.4	3.72	203.5	13.2	203.9	197.2	6.71	30.396		
1,235.0	1,235.0	1,245.4	1,245.4	3.4	3.4	3.72	203.5	13.2	203.9	197.2	6.75	30.208		
1,300.0	1,300.0	1,310.4	1,310.4	3.4	3.4	3.72	203.5	13.2	203.9	197.1	6.83	29.854		
1,330.0	1,330.0	1,340.4	1,340.4	3.4	3.4	3.72	203.5	13.2	203.9	197.1	6.87	29.688		
1,400.0	1,400.0	1,410.4	1,410.4	3.5	3.5	3.72	203.5	13.2	203.9	197.0	6.96	29.297		
1,425.0	1,425.0	1,435.4	1,435.4	3.5	3.5	3.72	203.5	13.2	203.9	196.9	6.99	29.157		
1,500.0	1,500.0	1,510.4	1,510.4	3.5	3.6	3.72	203.5	13.2	203.9	196.8	7.10	28.731		
1,520.0	1,520.0	1,530.4	1,530.4	3.6	3.6	3.72	203.5	13.2	203.9	196.8	7.13	28.617		
1,600.0	1,600.0	1,610.4	1,610.4	3.6	3.6	3.72	203.5	13.2	203.9	196.7	7.24	28.160		
1,615.0	1,615.0	1,625.4	1,625.4	3.6	3.6	3.72	203.5	13.2	203.9	196.7	7.26	28.074		
1,700.0	1,700.0	1,710.4	1,710.4	3.7	3.7	3.72	203.5	13.2	203.9	196.5	7.39	27.586		
1,710.0	1,710.0	1,720.4	1,720.4	3.7	3.7	3.72	203.5	13.2	203.9	196.5	7.41	27.529		
1,800.0	1,800.0	1,810.4	1,810.4	3.8	3.8	3.72	203.5	13.2	203.9	196.4	7.55	27.013		
1,805.0	1,805.0	1,815.4	1,815.4	3.8	3.8	3.72	203.5	13.2	203.9	196.4	7.56	26.984		
1,900.0	1,900.0	1,910.4	1,910.4	3.9	3.9	3.72	203.5	13.2	203.9	196.2	7.71	26.443		
1,995.0	1,995.0	2,005.4	2,005.4	3.9	3.9	3.72	203.5	13.2	203.9	196.1	7.87	25.907		
2,000.0	2,000.0	2,010.4	2,010.4	3.9	3.9	3.72	203.5	13.2	203.9	196.0	7.88	25.879		
2,090.0	2,090.0	2,100.4	2,100.4	4.1	4.0	40.14	203.5	13.2	202.8	194.7	8.13	24.949		
2,100.0	2,100.0	2,110.4	2,110.4	4.1	4.0	40.20	203.5	13.2	202.6	194.4	8.16	24.834		
2,185.0	2,184.9	2,195.3	2,195.3	4.7	4.1	41.03	203.5	13.2	199.4	190.7	8.70	22.920		
2,200.0	2,199.8	2,210.2	2,210.2	4.8	4.1	41.23	203.5	13.2	198.6	189.8	8.80	22.580		
2,280.0	2,279.6	2,290.0	2,290.0	5.3	4.2	42.60	203.5	13.2	193.6	184.4	9.26	20.920		
2,300.0	2,299.5	2,309.9	2,309.9	5.4	4.2	43.02	203.5	13.2	192.1	182.8	9.37	20.509		
2,375.0	2,373.9	2,384.3	2,384.3	5.8	4.3	44.96	203.5	13.2	185.8	176.0	9.75	19.061		
2,400.0	2,398.7	2,409.1	2,409.1	6.0	4.3	45.74	203.5	13.2	183.4	173.5	9.87	18.589		
2,470.0	2,467.9	2,478.3	2,478.3	6.4	4.4	48.30	203.5	13.2	176.1	166.0	10.15	17.348		
2,500.0	2,497.5	2,507.6	2,507.6	6.5	4.4	49.58	203.5	13.2	172.8	162.5	10.26	16.840		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8446-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,565.0	2,561.3	2,569.9	2,569.9	6.9	4.5	52.49	204.1	12.6	165.6	155.1	10.45	15.851	
2,600.0	2,595.6	2,603.6	2,603.6	7.0	4.5	54.15	204.8	11.9	161.8	151.2	10.53	15.368	
2,660.0	2,654.2	2,661.4	2,661.3	7.3	4.5	57.16	206.6	9.9	155.4	144.7	10.62	14.632	
2,700.0	2,693.1	2,700.0	2,699.8	7.5	4.6	59.29	208.2	8.1	151.2	140.6	10.65	14.194	
2,725.1	2,717.4	2,724.3	2,724.1	7.6	4.6	60.69	209.4	6.8	148.7	138.1	10.61	14.006	
2,755.0	2,746.3	2,753.4	2,753.1	7.6	4.6	62.30	211.0	5.0	145.8	135.2	10.57	13.795	
2,800.0	2,789.9	2,797.8	2,797.3	7.7	4.6	64.81	213.7	2.1	141.7	131.2	10.49	13.511	
2,850.0	2,838.3	2,847.1	2,846.4	7.8	4.7	67.77	216.6	-1.1	137.5	127.1	10.40	13.218	
2,900.0	2,886.7	2,896.3	2,895.5	7.9	4.7	70.91	219.4	-4.2	133.7	123.4	10.30	12.978	
2,945.0	2,930.3	2,940.7	2,939.7	7.9	4.7	73.87	222.1	-7.1	130.7	120.4	10.21	12.792	
3,000.0	2,983.5	2,994.9	2,993.7	8.1	4.8	77.67	225.2	-10.6	127.4	117.3	10.10	12.622	
3,040.0	3,022.2	3,034.4	3,033.0	8.1	4.8	80.54	227.6	-13.1	125.5	115.4	10.01	12.528	
3,100.0	3,080.3	3,093.5	3,091.9	8.3	4.9	84.99	231.0	-16.9	123.1	113.2	9.90	12.439	
3,135.0	3,114.2	3,128.0	3,126.3	8.3	4.9	87.66	233.1	-19.1	122.1	112.3	9.85	12.406	
3,200.0	3,177.2	3,192.1	3,190.1	8.5	5.0	92.70	236.8	-23.3	121.0	111.3	9.78	12.380	
3,230.0	3,206.2	3,221.7	3,219.6	8.6	5.0	95.05	238.6	-25.2	120.9	111.1	9.77	12.375	
3,241.2	3,217.1	3,232.8	3,230.6	8.6	5.0	95.93	239.2	-25.9	120.8	111.1	9.77	12.374 CC, ES	
3,300.0	3,274.0	3,290.7	3,288.3	8.7	5.0	100.52	242.6	-29.6	121.2	111.4	9.80	12.376	
3,325.0	3,298.2	3,315.3	3,312.9	8.8	5.1	102.46	244.1	-31.2	121.7	111.8	9.83	12.375	
3,400.0	3,370.8	3,389.3	3,386.5	9.0	5.1	108.18	248.4	-36.0	123.7	113.7	10.00	12.371	
3,420.0	3,390.1	3,409.0	3,406.2	9.0	5.1	109.67	249.6	-37.2	124.5	114.4	10.07	12.368	
3,500.0	3,467.6	3,487.9	3,484.7	9.2	5.2	115.42	254.2	-42.3	128.4	118.0	10.39	12.357	
3,515.0	3,482.1	3,502.6	3,499.5	9.3	5.2	116.45	255.1	-43.2	129.3	118.8	10.46	12.356	
3,600.0	3,564.4	3,586.4	3,582.9	9.5	5.3	122.06	260.0	-48.6	135.0	124.1	10.92	12.361	
3,610.0	3,574.1	3,596.3	3,592.8	9.5	5.3	122.69	260.6	-49.3	135.7	124.8	10.98	12.363	
3,700.0	3,661.2	3,685.0	3,681.1	9.8	5.4	128.03	265.8	-55.0	143.2	131.7	11.54	12.412	
3,705.0	3,666.1	3,690.0	3,686.1	9.8	5.4	128.31	266.1	-55.3	143.7	132.1	11.57	12.416	
3,800.0	3,758.0	3,783.6	3,779.4	10.1	5.5	133.32	271.6	-61.3	152.9	140.7	12.20	12.528	
3,895.0	3,850.0	3,877.3	3,872.7	10.3	5.6	137.73	277.1	-67.4	163.1	150.3	12.85	12.700	
3,900.0	3,854.8	3,882.2	3,877.6	10.3	5.6	137.95	277.4	-67.7	163.7	150.8	12.88	12.710	
3,990.0	3,942.0	3,970.9	3,966.0	10.6	5.7	141.61	282.6	-73.4	174.2	160.8	13.48	12.924	
4,000.0	3,951.7	3,980.8	3,975.8	10.6	5.7	141.99	283.2	-74.0	175.5	161.9	13.55	12.950	
4,085.0	4,034.0	4,064.6	4,059.3	10.9	5.8	145.02	288.1	-79.4	186.0	171.9	14.10	13.191	
4,100.0	4,048.5	4,079.4	4,074.0	10.9	5.8	145.52	289.0	-80.4	188.0	173.8	14.20	13.236	
4,180.0	4,125.9	4,158.2	4,152.6	11.2	5.9	148.01	293.6	-85.4	198.4	183.7	14.71	13.490	
4,200.0	4,145.3	4,177.9	4,172.2	11.3	5.9	148.60	294.8	-86.7	201.1	186.3	14.83	13.556	
4,275.0	4,217.9	4,251.9	4,245.9	11.5	6.0	150.66	299.1	-91.5	211.3	196.0	15.30	13.813	
4,300.0	4,242.1	4,276.5	4,270.4	11.6	6.0	151.30	300.6	-93.1	214.7	199.3	15.45	13.900	
4,370.0	4,309.9	4,345.5	4,339.2	11.8	6.1	152.99	304.6	-97.5	224.5	208.7	15.87	14.151	
4,400.0	4,338.9	4,375.1	4,368.6	11.9	6.1	153.68	306.4	-99.4	228.8	212.7	16.04	14.260	
4,465.0	4,401.8	4,439.2	4,432.5	12.1	6.1	155.07	310.1	-103.5	238.1	221.7	16.42	14.498	
4,500.0	4,435.7	4,473.7	4,466.8	12.2	6.2	155.78	312.1	-105.7	243.2	226.6	16.63	14.628	
4,560.0	4,493.8	4,532.9	4,525.7	12.4	6.2	156.92	315.6	-109.6	252.0	235.0	16.97	14.850	
4,600.0	4,532.5	4,572.3	4,565.0	12.5	6.3	157.64	317.9	-112.1	257.9	240.7	17.19	14.999	
4,655.0	4,585.8	4,626.5	4,619.0	12.7	6.3	158.58	321.1	-115.6	266.1	248.6	17.50	15.203	
4,700.0	4,629.4	4,670.9	4,663.2	12.9	6.4	159.31	323.7	-118.4	272.8	255.0	17.75	15.369	
4,750.0	4,677.8	4,720.2	4,712.3	13.0	6.4	160.07	326.6	-121.6	280.3	262.3	18.02	15.553	
4,800.0	4,726.2	4,769.5	4,761.5	13.2	6.5	160.80	329.5	-124.8	287.9	269.6	18.30	15.736	
4,845.0	4,769.7	4,813.8	4,805.6	13.4	6.5	161.42	332.1	-127.6	294.8	276.2	18.54	15.900	
4,900.0	4,823.0	4,868.0	4,859.7	13.5	6.6	162.14	335.3	-131.1	303.2	284.4	18.84	16.098	
4,940.0	4,861.7	4,907.5	4,898.9	13.7	6.6	162.64	337.6	-133.7	309.4	290.3	19.05	16.241	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 8446-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.0	4,919.8	4,966.6	4,957.9	13.9	6.7	163.35	341.1	-137.5	318.7	299.3	19.37	16.453		
5,035.0	4,953.7	5,001.1	4,992.2	14.0	6.7	163.75	343.1	-139.7	324.1	304.5	19.55	16.575		
5,100.0	5,016.6	5,065.2	5,056.1	14.2	6.8	164.46	346.9	-143.8	334.2	314.3	19.90	16.799		
5,130.0	5,045.7	5,094.8	5,085.5	14.3	6.8	164.77	348.7	-145.7	338.9	318.9	20.05	16.901		
5,200.0	5,113.4	5,163.8	5,154.3	14.6	6.9	165.46	352.7	-150.2	349.9	329.5	20.42	17.136		
5,225.0	5,137.6	5,188.4	5,178.8	14.7	7.0	165.70	354.2	-151.7	353.9	333.3	20.55	17.219		
5,300.0	5,210.2	5,262.4	5,252.5	14.9	7.0	166.38	358.5	-156.5	365.7	344.8	20.94	17.464		
5,320.0	5,229.6	5,282.1	5,272.1	15.0	7.1	166.55	359.7	-157.8	368.9	347.8	21.04	17.529		
5,400.0	5,307.1	5,361.0	5,350.7	15.3	7.1	167.22	364.3	-162.9	381.6	360.1	21.46	17.783		
5,415.0	5,321.6	5,375.7	5,365.4	15.3	7.2	167.34	365.2	-163.8	384.0	362.4	21.53	17.830		
5,500.0	5,403.9	5,459.5	5,448.9	15.6	7.3	167.99	370.1	-169.2	397.5	375.5	21.97	18.092		
5,510.0	5,413.6	5,469.4	5,458.7	15.7	7.3	168.06	370.7	-169.8	399.1	377.1	22.02	18.122		
5,600.0	5,500.7	5,558.1	5,547.1	16.0	7.4	168.71	375.9	-175.5	413.5	391.0	22.48	18.391		
5,605.0	5,505.5	5,563.1	5,552.0	16.0	7.4	168.74	376.2	-175.9	414.3	391.8	22.51	18.406		
5,695.0	5,592.6	5,651.7	5,640.4	16.3	7.5	169.33	381.4	-181.6	428.8	405.8	22.97	18.667		
5,700.0	5,597.5	5,656.7	5,645.3	16.3	7.5	169.37	381.7	-181.9	429.6	406.6	22.99	18.681		
5,795.0	5,689.9	5,750.6	5,738.9	16.7	7.6	169.96	387.2	-187.9	443.2	419.7	23.50	18.855		
5,800.0	5,694.8	5,755.6	5,743.8	16.7	7.6	169.99	387.5	-188.3	443.8	420.3	23.53	18.861		
5,890.0	5,783.0	5,845.0	5,832.9	17.2	7.7	170.45	392.7	-194.0	453.7	429.6	24.10	18.831		
5,900.0	5,792.8	5,854.9	5,842.8	17.2	7.7	170.49	393.3	-194.6	454.7	430.5	24.16	18.821		
5,985.0	5,876.6	5,939.6	5,927.2	17.6	7.8	170.83	398.3	-200.1	461.2	436.6	24.68	18.691		
6,000.0	5,891.4	5,954.6	5,942.1	17.7	7.8	170.89	399.2	-201.1	462.1	437.4	24.77	18.658		
6,080.0	5,970.7	6,034.5	6,021.7	18.0	7.9	171.14	403.9	-206.2	465.7	440.4	25.25	18.445		
6,100.0	5,990.6	6,054.5	6,041.6	18.1	7.9	171.19	405.1	-207.5	466.2	440.8	25.36	18.379		
6,175.0	6,065.2	6,129.5	6,116.3	18.5	8.0	171.37	409.5	-212.3	467.0	441.2	25.80	18.100		
6,200.0	6,090.2	6,154.5	6,141.2	18.6	8.0	171.42	410.9	-213.9	466.8	440.8	25.94	17.992		
6,270.0	6,160.0	6,224.4	6,210.9	18.9	8.1	171.54	415.0	-218.4	465.2	438.8	26.34	17.661		
6,300.0	6,190.0	6,254.4	6,240.8	19.0	8.2	171.58	416.8	-220.4	463.9	437.4	26.51	17.503		
6,365.0	6,254.9	6,319.3	6,305.4	19.3	8.2	171.64	420.6	-224.5	460.2	433.4	26.86	17.135		
6,400.0	6,289.9	6,354.2	6,340.2	19.5	8.3	171.66	422.7	-226.8	457.7	430.6	27.05	16.918		
6,420.1	6,310.0	6,374.2	6,360.1	19.5	8.3	135.53	423.8	-228.1	456.0	428.8	27.13	16.804		
6,460.0	6,349.9	6,414.0	6,399.7	19.6	8.3	135.55	426.2	-230.6	452.5	425.2	27.29	16.578		
6,500.0	6,389.9	6,453.8	6,439.4	19.7	8.4	135.57	428.5	-233.2	449.0	421.6	27.46	16.354		
6,555.0	6,444.9	6,508.6	6,494.0	19.9	8.5	135.61	431.7	-236.7	444.2	416.6	27.68	16.050		
6,600.0	6,489.9	6,553.5	6,538.7	20.0	8.5	135.64	434.4	-239.6	440.3	412.5	27.86	15.804		
6,650.0	6,539.9	6,603.3	6,588.3	20.2	8.6	135.67	437.3	-242.8	436.0	407.9	28.06	15.534		
6,700.0	6,589.9	6,653.1	6,637.9	20.3	8.6	135.70	440.2	-246.0	431.6	403.3	28.27	15.269		
6,745.0	6,634.9	6,697.9	6,682.6	20.4	8.7	135.73	442.9	-248.9	427.7	399.2	28.45	15.032		
6,800.0	6,689.9	6,752.7	6,737.1	20.6	8.7	135.77	446.1	-252.4	422.9	394.2	28.68	14.747		
6,840.0	6,729.9	6,792.5	6,776.8	20.7	8.8	135.80	448.4	-255.0	419.4	390.6	28.84	14.542		
6,900.0	6,789.9	6,852.3	6,836.4	20.9	8.9	135.84	451.9	-258.8	414.2	385.1	29.09	14.238		
6,935.0	6,824.9	6,887.2	6,871.1	21.0	8.9	135.87	454.0	-261.1	411.2	381.9	29.24	14.064		
7,000.0	6,889.9	6,951.9	6,935.6	21.2	9.0	135.92	457.8	-265.2	405.5	376.0	29.51	13.743		
7,030.0	6,919.9	6,981.8	6,965.4	21.3	9.0	135.94	459.5	-267.2	402.9	373.3	29.63	13.597		
7,093.1	6,983.0	7,044.7	7,028.0	21.4	9.1	135.99	463.2	-271.2	397.4	367.5	29.90	13.294		
7,100.0	6,989.9	7,051.5	7,034.9	21.5	9.1	-44.51	463.6	-271.7	396.8	366.8	29.95	13.247		
7,125.0	7,014.9	7,076.4	7,059.6	21.5	9.1	-44.77	465.1	-273.3	394.0	364.0	29.99	13.137		
7,150.0	7,039.9	7,101.1	7,084.2	21.5	9.2	-45.21	466.6	-274.8	390.5	360.4	30.03	13.004		
7,200.0	7,089.3	7,150.0	7,132.9	21.7	9.2	-46.62	469.4	-278.0	381.2	351.0	30.13	12.650		
7,220.0	7,108.9	7,169.2	7,152.1	21.8	9.2	-47.39	470.6	-279.2	376.6	346.5	30.16	12.488		
7,250.0	7,138.0	7,197.8	7,180.5	21.9	9.3	-48.79	472.2	-281.1	369.0	338.8	30.19	12.224		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8446-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Factor	
7,300.0	7,185.5	7,244.2	7,226.8	22.1	9.3	-51.81	475.0	-284.1	354.4	324.2	30.18	11.741	
7,315.0	7,199.4	7,257.8	7,240.3	22.1	9.3	-52.90	475.8	-284.9	349.6	319.4	30.17	11.588	
7,350.0	7,231.4	7,288.8	7,271.2	22.2	9.4	-55.76	477.6	-286.9	337.7	307.6	30.10	11.220	
7,400.0	7,275.5	7,331.3	7,313.6	22.4	9.4	-60.66	480.1	-289.7	319.6	289.7	29.91	10.687	
7,410.0	7,284.0	7,339.5	7,321.8	22.4	9.4	-61.75	480.6	-290.2	315.9	286.1	29.86	10.581	
7,450.0	7,317.3	7,371.4	7,353.5	22.6	9.5	-66.46	482.4	-292.2	301.0	271.4	29.58	10.173	
7,500.0	7,356.6	7,408.7	7,390.7	22.7	9.5	-72.98	484.6	-294.6	282.9	253.8	29.10	9.722	
7,505.0	7,360.4	7,412.3	7,394.2	22.7	9.5	-73.66	484.8	-294.9	281.2	252.1	29.04	9.682	
7,550.0	7,393.0	7,443.0	7,424.9	22.8	9.6	-79.82	486.7	-296.9	266.9	238.4	28.44	9.383	
7,600.0	7,426.4	7,474.1	7,455.8	22.9	9.6	-86.47	488.5	-298.9	254.7	227.0	27.67	9.206 SF	
7,650.0	7,456.3	7,500.0	7,481.6	23.0	9.6	-92.06	490.0	-300.5	248.4	221.5	26.90	9.234	
7,667.7	7,466.1	7,509.5	7,491.1	23.0	9.6	-94.01	490.5	-301.1	247.9	221.2	26.68	9.292	
7,695.0	7,480.2	7,521.9	7,503.5	23.1	9.7	-96.42	491.2	-301.8	249.1	222.7	26.41	9.433	
7,700.0	7,482.7	7,524.1	7,505.6	23.1	9.7	-96.82	491.3	-301.9	249.6	223.2	26.37	9.465	
7,750.0	7,505.2	7,543.8	7,525.2	23.1	9.7	-99.97	492.3	-303.1	259.2	233.0	26.23	9.882	
7,790.0	7,520.4	7,556.8	7,538.2	23.2	9.7	-101.33	493.0	-303.8	272.9	246.5	26.42	10.332	
7,800.0	7,523.8	7,559.7	7,541.1	23.2	9.7	-101.50	493.1	-303.9	277.2	250.7	26.50	10.460	
7,850.0	7,538.2	7,571.6	7,553.0	23.2	9.7	-101.26	493.7	-304.6	302.4	275.4	27.02	11.193	
7,885.0	7,545.8	7,577.5	7,558.9	23.3	9.7	-99.95	494.0	-304.9	323.8	296.3	27.45	11.796	
7,900.0	7,548.5	7,579.5	7,560.8	23.3	9.7	-99.08	494.1	-305.0	333.7	306.0	27.63	12.076	
7,950.0	7,554.4	7,583.1	7,564.4	23.3	9.7	-94.83	494.3	-305.2	369.4	341.2	28.21	13.093	
7,980.0	7,555.9	7,583.1	7,564.5	23.3	9.7	-91.25	494.3	-305.2	392.5	363.9	28.53	13.757	
7,994.3	7,556.0	7,582.6	7,564.0	23.3	9.7	-89.28	494.2	-305.2	403.7	375.1	28.67	14.085	
8,000.0	7,556.0	7,582.4	7,563.7	23.3	9.7	-89.22	494.2	-305.1	408.3	379.6	28.72	14.219	
8,075.0	7,555.8	7,578.7	7,560.1	23.3	9.7	-88.35	494.0	-305.0	470.7	441.4	29.33	16.049	
8,100.0	7,555.8	7,577.4	7,558.8	23.3	9.7	-88.06	494.0	-304.9	492.3	462.8	29.50	16.688	
8,170.0	7,555.6	7,573.9	7,555.3	23.3	9.7	-87.24	493.8	-304.7	554.2	524.3	29.90	18.534	
8,200.0	7,555.6	7,572.4	7,553.8	23.3	9.7	-86.89	493.8	-304.6	581.3	551.2	30.04	19.348	
8,265.0	7,555.5	7,569.1	7,550.5	23.3	9.7	-86.11	493.6	-304.4	640.8	610.5	30.31	21.143	
8,300.0	7,555.4	7,567.2	7,548.6	23.3	9.7	-85.69	493.5	-304.4	673.3	642.9	30.43	22.127	
8,360.0	7,555.3	7,564.1	7,545.5	23.4	9.7	-84.95	493.3	-304.2	729.5	698.9	30.61	23.833	
8,400.0	7,555.2	7,561.9	7,543.4	23.4	9.7	-84.46	493.2	-304.1	767.3	736.6	30.71	24.984	
8,455.0	7,555.1	7,559.0	7,540.4	23.4	9.7	-83.78	493.1	-303.9	819.6	788.8	30.84	26.579	
8,500.0	7,555.0	7,556.5	7,538.0	23.4	9.7	-83.22	493.0	-303.8	862.6	831.7	30.93	27.894	
8,550.0	7,554.9	7,553.8	7,535.2	23.4	9.7	-82.59	492.8	-303.6	910.7	879.7	31.01	29.363	
8,600.0	7,554.8	7,551.0	7,532.4	23.4	9.7	-81.95	492.7	-303.5	958.9	927.8	31.09	30.840	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #704H - OWB - PWP0														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 8495-MWD+IFR1+FDIR						Rule Assigned:						Offset Well Error: 3.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	44.4	44.4	3.0	3.0	-4.71	203.5	-16.8	204.2						
95.0	95.0	139.4	139.4	3.0	3.0	-4.71	203.5	-16.8	204.2	198.2	6.00	34.025			
100.0	100.0	144.4	144.4	3.0	3.0	-4.71	203.5	-16.8	204.2	198.2	6.00	34.024			
190.0	190.0	234.4	234.4	3.0	3.0	-4.71	203.5	-16.8	204.2	198.2	6.01	33.964			
200.0	200.0	244.4	244.4	3.0	3.0	-4.71	203.5	-16.8	204.2	198.2	6.01	33.954			
285.0	285.0	329.4	329.4	3.0	3.0	-4.71	203.5	-16.8	204.2	198.2	6.03	33.844			
300.0	300.0	344.4	344.4	3.0	3.0	-4.71	203.5	-16.8	204.2	198.2	6.04	33.820			
380.0	380.0	424.4	424.4	3.0	3.0	-4.71	203.5	-16.8	204.2	198.2	6.07	33.669			
400.0	400.0	444.4	444.4	3.0	3.0	-4.71	203.5	-16.8	204.2	198.1	6.07	33.625			
475.0	475.0	519.4	519.4	3.0	3.1	-4.71	203.5	-16.8	204.2	198.1	6.11	33.440			
500.0	500.0	544.4	544.4	3.1	3.1	-4.71	203.5	-16.8	204.2	198.1	6.12	33.371			
570.0	570.0	614.4	614.4	3.1	3.1	-4.71	203.5	-16.8	204.2	198.1	6.16	33.160			
600.0	600.0	644.4	644.4	3.1	3.1	-4.71	203.5	-16.8	204.2	198.0	6.18	33.062			
665.0	665.0	709.4	709.4	3.1	3.1	-4.71	203.5	-16.8	204.2	198.0	6.22	32.835			
700.0	700.0	744.4	744.4	3.1	3.1	-4.71	203.5	-16.8	204.2	198.0	6.24	32.704			
760.0	760.0	804.4	804.4	3.1	3.2	-4.71	203.5	-16.8	204.2	197.9	6.29	32.468			
800.0	800.0	844.4	844.4	3.2	3.2	-4.71	203.5	-16.8	204.2	197.9	6.32	32.302			
855.0	855.0	899.4	899.4	3.2	3.2	-4.71	203.5	-16.8	204.2	197.8	6.37	32.063			
900.0	900.0	944.4	944.4	3.2	3.2	-4.71	203.5	-16.8	204.2	197.8	6.41	31.859			
950.0	950.0	994.4	994.4	3.2	3.2	-4.71	203.5	-16.8	204.2	197.8	6.46	31.625			
1,000.0	1,000.0	1,044.4	1,044.4	3.2	3.3	-4.71	203.5	-16.8	204.2	197.7	6.51	31.384			
1,045.0	1,045.0	1,089.4	1,089.4	3.3	3.3	-4.71	203.5	-16.8	204.2	197.7	6.55	31.160			
1,100.0	1,100.0	1,144.4	1,144.4	3.3	3.3	-4.71	203.5	-16.8	204.2	197.6	6.61	30.880			
1,140.0	1,140.0	1,184.4	1,184.4	3.3	3.3	-4.71	203.5	-16.8	204.2	197.6	6.66	30.671			
1,200.0	1,200.0	1,244.4	1,244.4	3.4	3.4	-4.71	203.5	-16.8	204.2	197.5	6.73	30.352			
1,235.0	1,235.0	1,279.4	1,279.4	3.4	3.4	-4.71	203.5	-16.8	204.2	197.4	6.77	30.164			
1,300.0	1,300.0	1,344.4	1,344.4	3.4	3.4	-4.71	203.5	-16.8	204.2	197.4	6.85	29.808			
1,330.0	1,330.0	1,374.4	1,374.4	3.4	3.5	-4.71	203.5	-16.8	204.2	197.3	6.89	29.641			
1,400.0	1,400.0	1,444.4	1,444.4	3.5	3.5	-4.71	203.5	-16.8	204.2	197.2	6.98	29.249			
1,425.0	1,425.0	1,469.4	1,469.4	3.5	3.5	-4.71	203.5	-16.8	204.2	197.2	7.02	29.108			
1,500.0	1,500.0	1,544.4	1,544.4	3.5	3.6	-4.71	203.5	-16.8	204.2	197.1	7.12	28.682			
1,520.0	1,520.0	1,564.4	1,564.4	3.6	3.6	-4.71	203.5	-16.8	204.2	197.1	7.15	28.568			
1,600.0	1,600.0	1,644.4	1,644.4	3.6	3.7	-4.71	203.5	-16.8	204.2	197.0	7.27	28.110			
1,615.0	1,615.0	1,659.4	1,659.4	3.6	3.7	-4.71	203.5	-16.8	204.2	196.9	7.29	28.024			
1,700.0	1,700.0	1,744.4	1,744.4	3.7	3.7	-4.71	203.5	-16.8	204.2	196.8	7.42	27.535			
1,710.0	1,710.0	1,754.4	1,754.4	3.7	3.7	-4.71	203.5	-16.8	204.2	196.8	7.43	27.478			
1,800.0	1,800.0	1,844.4	1,844.4	3.8	3.8	-4.71	203.5	-16.8	204.2	196.6	7.57	26.963			
1,805.0	1,805.0	1,849.4	1,849.4	3.8	3.8	-4.71	203.5	-16.8	204.2	196.6	7.58	26.934			
1,900.0	1,900.0	1,944.4	1,944.4	3.9	3.9	-4.71	203.5	-16.8	204.2	196.5	7.74	26.393			
1,995.0	1,995.0	2,039.4	2,039.4	3.9	4.0	-4.71	203.5	-16.8	204.2	196.3	7.90	25.858			
2,000.0	2,000.0	2,044.4	2,044.4	3.9	4.0	-4.71	203.5	-16.8	204.2	196.3	7.91	25.830			
2,090.0	2,090.0	2,134.4	2,134.4	4.1	4.1	31.66	203.5	-16.8	203.0	194.8	8.17	24.839			
2,100.0	2,100.0	2,144.4	2,144.4	4.1	4.1	31.71	203.5	-16.8	202.7	194.5	8.20	24.710			
2,185.0	2,184.9	2,229.3	2,229.3	4.7	4.1	32.39	203.5	-16.8	199.1	190.3	8.80	22.624			
2,200.0	2,199.8	2,244.2	2,244.2	4.8	4.2	32.55	203.5	-16.8	198.3	189.4	8.91	22.248			
2,280.0	2,279.6	2,324.0	2,324.0	5.3	4.2	33.68	203.5	-16.8	192.7	183.3	9.43	20.435			
2,300.0	2,299.5	2,343.9	2,343.9	5.4	4.2	34.04	203.5	-16.8	191.0	181.4	9.56	19.980			
2,375.0	2,373.9	2,418.3	2,418.3	5.8	4.3	35.66	203.5	-16.8	183.8	173.7	10.00	18.374			
2,400.0	2,398.7	2,443.1	2,443.1	6.0	4.3	36.31	203.5	-16.8	181.0	170.9	10.15	17.843			
2,470.0	2,467.9	2,512.1	2,512.1	6.4	4.4	38.47	203.5	-16.8	172.6	162.1	10.51	16.426			
2,500.0	2,497.5	2,541.2	2,541.2	6.5	4.4	39.48	203.6	-17.0	168.7	158.0	10.65	15.841			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #704H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8495-MWD+IFR1+FDIR											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
2,565.0	2,561.3	2,604.4	2,604.4	6.9	4.5	41.73	204.1	-18.6	159.9	149.0	10.93	14.636
2,600.0	2,595.6	2,638.5	2,638.5	7.0	4.5	42.99	204.6	-19.9	155.0	143.9	11.06	14.013
2,660.0	2,654.2	2,697.0	2,696.9	7.3	4.5	45.24	205.6	-23.2	146.1	134.9	11.26	12.980
2,700.0	2,693.1	2,736.1	2,735.8	7.5	4.5	46.84	206.6	-26.0	140.0	128.6	11.37	12.304
2,725.1	2,717.4	2,760.6	2,760.2	7.6	4.6	47.89	207.2	-28.0	136.0	124.6	11.38	11.955
2,755.0	2,746.3	2,789.8	2,789.3	7.6	4.6	49.07	208.1	-30.7	131.3	119.9	11.37	11.543
2,800.0	2,789.9	2,833.9	2,833.2	7.7	4.6	50.76	209.6	-35.2	124.3	113.0	11.37	10.935
2,850.0	2,838.3	2,883.1	2,882.0	7.8	4.6	52.48	211.5	-41.1	116.8	105.4	11.39	10.254
2,900.0	2,886.7	2,932.4	2,930.8	7.9	4.6	53.98	213.7	-47.7	109.4	98.0	11.42	9.579
2,945.0	2,930.3	2,976.8	2,974.6	7.9	4.7	55.12	215.9	-54.4	102.8	91.3	11.47	8.962
3,000.0	2,983.5	3,031.2	3,028.2	8.1	4.7	56.25	218.8	-63.3	94.8	83.2	11.55	8.208
3,040.0	3,022.2	3,070.8	3,067.2	8.1	4.7	57.15	221.0	-69.8	89.0	77.4	11.61	7.668
3,100.0	3,080.3	3,130.1	3,125.6	8.3	4.8	58.76	224.2	-79.6	80.3	68.7	11.67	6.881
3,135.0	3,114.2	3,164.7	3,159.7	8.3	4.8	59.86	226.1	-85.3	75.3	63.6	11.71	6.434
3,200.0	3,177.2	3,229.0	3,223.0	8.5	4.8	62.36	229.5	-95.9	66.1	54.4	11.74	5.631
3,230.0	3,206.2	3,258.6	3,252.2	8.6	4.9	63.76	231.2	-100.8	61.9	50.1	11.74	5.273
3,300.0	3,274.0	3,327.9	3,320.3	8.7	4.9	67.89	234.9	-112.2	52.2	40.6	11.67	4.476
3,325.0	3,298.2	3,352.6	3,344.7	8.8	4.9	69.76	236.2	-116.3	48.9	37.3	11.62	4.205
3,400.0	3,370.8	3,426.7	3,417.7	9.0	5.0	77.23	240.3	-128.5	39.2	27.9	11.36	3.452
3,420.0	3,390.1	3,446.5	3,437.2	9.0	5.0	79.86	241.3	-131.8	36.8	25.5	11.25	3.269
3,500.0	3,467.6	3,525.6	3,515.1	9.2	5.1	94.65	245.6	-144.8	28.2	17.4	10.72	2.627
3,515.0	3,482.1	3,540.4	3,529.7	9.3	5.1	98.40	246.4	-147.3	26.8	16.2	10.63	2.523
3,600.0	3,564.4	3,624.5	3,612.5	9.5	5.1	126.26	251.0	-161.1	22.2	11.1	11.11	2.002
3,610.0	3,574.1	3,634.4	3,622.2	9.5	5.1	130.06	251.5	-162.7	22.1	10.8	11.32	1.954 Advise and Monitor
3,616.6	3,580.5	3,640.9	3,628.7	9.5	5.1	132.60	251.9	-163.8	22.1	10.6	11.48	1.925 Advise and Monitor, CC, ES
3,700.0	3,661.2	3,723.4	3,709.8	9.8	5.2	161.75	256.4	-177.4	25.4	11.7	13.71	1.851 Advise and Monitor, SF
3,705.0	3,666.1	3,728.3	3,714.7	9.8	5.2	163.19	256.6	-178.2	25.7	11.9	13.82	1.863 Advise and Monitor
3,800.0	3,758.0	3,822.2	3,807.2	10.1	5.3	-176.59	261.7	-193.7	35.2	20.1	15.16	2.323
3,895.0	3,850.0	3,916.2	3,899.7	10.3	5.4	-165.63	266.8	-209.2	47.1	31.4	15.75	2.991
3,900.0	3,854.8	3,921.1	3,904.6	10.3	5.4	-165.21	267.1	-210.0	47.8	32.0	15.77	3.028
3,990.0	3,942.0	4,010.1	3,992.2	10.6	5.5	-159.21	271.9	-224.7	60.0	43.9	16.14	3.718
4,000.0	3,951.7	4,020.0	4,002.0	10.6	5.5	-158.69	272.5	-226.4	61.4	45.2	16.18	3.796
4,085.0	4,034.0	4,104.0	4,084.7	10.9	5.6	-155.09	277.0	-240.2	73.4	56.9	16.49	4.453
4,100.0	4,048.5	4,118.9	4,099.3	10.9	5.6	-154.57	277.8	-242.7	75.6	59.0	16.54	4.568
4,180.0	4,125.9	4,198.0	4,177.2	11.2	5.6	-152.25	282.1	-255.7	87.1	70.2	16.83	5.174
4,200.0	4,145.3	4,217.7	4,196.7	11.3	5.7	-151.76	283.2	-259.0	90.0	73.1	16.90	5.323
4,275.0	4,217.9	4,291.9	4,269.7	11.5	5.7	-150.18	287.2	-271.2	100.9	83.7	17.17	5.874
4,300.0	4,242.1	4,316.6	4,294.1	11.6	5.8	-149.73	288.5	-275.3	104.5	87.2	17.26	6.054
4,370.0	4,309.9	4,385.8	4,362.2	11.8	5.8	-148.61	292.3	-286.7	114.8	97.2	17.53	6.547
4,400.0	4,338.9	4,415.5	4,391.5	11.9	5.8	-148.19	293.9	-291.6	119.2	101.5	17.64	6.755
4,465.0	4,401.8	4,479.8	4,454.7	12.1	5.9	-147.38	297.4	-302.2	128.7	110.8	17.89	7.194
4,500.0	4,435.7	4,514.4	4,488.8	12.2	5.9	-146.99	299.3	-307.9	133.9	115.9	18.03	7.426
4,560.0	4,493.8	4,573.7	4,547.3	12.4	6.0	-146.39	302.5	-317.7	142.7	124.5	18.27	7.813
4,600.0	4,532.5	4,613.2	4,586.2	12.5	6.0	-146.03	304.6	-324.2	148.6	130.2	18.43	8.066
4,655.0	4,585.8	4,667.6	4,639.8	12.7	6.1	-145.58	307.6	-333.2	156.8	138.1	18.65	8.406
4,700.0	4,629.4	4,712.1	4,683.6	12.9	6.2	-145.24	310.0	-340.5	163.4	144.6	18.83	8.678
4,750.0	4,677.8	4,761.6	4,732.3	13.0	6.2	-144.90	312.7	-348.7	170.8	151.8	19.04	8.972
4,800.0	4,726.2	4,811.0	4,781.0	13.2	6.3	-144.58	315.4	-356.8	178.3	159.0	19.25	9.260
4,845.0	4,769.7	4,855.5	4,824.8	13.4	6.3	-144.32	317.8	-364.2	184.9	165.5	19.44	9.513
4,900.0	4,823.0	4,909.9	4,878.3	13.5	6.4	-144.03	320.7	-373.2	193.1	173.4	19.67	9.815
4,940.0	4,861.7	4,949.4	4,917.3	13.7	6.4	-143.83	322.9	-379.7	199.0	179.2	19.85	10.030

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #704H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8495-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
5,000.0	4,919.8	5,008.8	4,975.7	13.9	6.5	-143.55	326.1	-389.5	208.0	187.9	20.10	10.344		
5,035.0	4,953.7	5,043.4	5,009.8	14.0	6.5	-143.40	328.0	-395.2	213.2	192.9	20.26	10.523		
5,100.0	5,016.6	5,107.6	5,073.1	14.2	6.6	-143.14	331.5	-405.8	222.8	202.3	20.54	10.848		
5,130.0	5,045.7	5,137.3	5,102.3	14.3	6.6	-143.03	333.1	-410.7	227.3	206.6	20.67	10.994		
5,200.0	5,113.4	5,206.5	5,170.5	14.6	6.7	-142.78	336.8	-422.1	237.7	216.7	20.98	11.328		
5,225.0	5,137.6	5,231.2	5,194.8	14.7	6.7	-142.69	338.2	-426.2	241.4	220.3	21.10	11.444		
5,300.0	5,210.2	5,305.4	5,267.8	14.9	6.8	-142.46	342.2	-438.4	252.6	231.2	21.43	11.785		
5,320.0	5,229.6	5,325.2	5,287.3	15.0	6.8	-142.40	343.3	-441.7	255.6	234.1	21.52	11.874		
5,400.0	5,307.1	5,404.3	5,365.2	15.3	6.9	-142.18	347.5	-454.7	267.5	245.6	21.89	12.221		
5,415.0	5,321.6	5,419.1	5,379.8	15.3	6.9	-142.14	348.3	-457.2	269.7	247.8	21.96	12.285		
5,500.0	5,403.9	5,503.1	5,462.6	15.6	7.0	-141.92	352.9	-471.0	282.4	260.0	22.35	12.637		
5,510.0	5,413.6	5,513.0	5,472.3	15.7	7.0	-141.90	353.4	-472.6	283.9	261.5	22.39	12.677		
5,600.0	5,500.7	5,602.0	5,559.9	16.0	7.1	-141.69	358.3	-487.3	297.3	274.5	22.81	13.033		
5,605.0	5,505.5	5,607.0	5,564.8	16.0	7.1	-141.68	358.5	-488.1	298.0	275.2	22.83	13.052		
5,695.0	5,592.6	5,695.9	5,652.4	16.3	7.3	-141.50	363.4	-502.8	311.5	288.2	23.25	13.393		
5,700.0	5,597.5	5,700.9	5,657.3	16.3	7.3	-141.50	363.6	-503.6	312.2	288.9	23.28	13.412		
5,795.0	5,689.9	5,795.0	5,750.0	16.7	7.4	-141.29	368.7	-519.2	325.0	301.3	23.73	13.695		
5,800.0	5,694.8	5,800.0	5,754.9	16.7	7.4	-141.27	369.0	-520.0	325.6	301.9	23.76	13.707		
5,890.0	5,783.0	5,889.3	5,842.9	17.2	7.5	-140.73	373.9	-534.7	335.4	311.2	24.26	13.827		
5,900.0	5,792.8	5,899.3	5,852.7	17.2	7.5	-140.66	374.4	-536.4	336.4	312.1	24.31	13.835		
5,985.0	5,876.6	5,983.8	5,935.9	17.6	7.6	-139.86	379.0	-550.3	343.5	318.7	24.77	13.870		
6,000.0	5,891.4	5,998.7	5,950.6	17.7	7.6	-139.69	379.8	-552.8	344.6	319.7	24.84	13.869		
6,080.0	5,970.7	6,078.3	6,029.0	18.0	7.7	-138.66	384.1	-565.9	349.3	324.0	25.24	13.836		
6,100.0	5,990.6	6,098.2	6,048.6	18.1	7.7	-138.37	385.2	-569.2	350.2	324.9	25.34	13.820		
6,175.0	6,065.2	6,172.7	6,122.0	18.5	7.8	-137.14	389.2	-581.5	352.9	327.2	25.69	13.738		
6,200.0	6,090.2	6,197.6	6,146.5	18.6	7.9	-136.68	390.6	-585.6	353.6	327.8	25.80	13.702		
6,270.0	6,160.0	6,267.0	6,214.8	18.9	8.0	-135.27	394.3	-597.0	354.6	328.5	26.10	13.587		
6,300.0	6,190.0	6,296.7	6,244.1	19.0	8.0	-134.61	396.0	-601.9	354.7	328.5	26.22	13.529		
6,365.0	6,254.9	6,361.0	6,307.4	19.3	8.1	-133.05	399.4	-612.5	354.5	328.0	26.47	13.395		
6,400.0	6,289.9	6,395.5	6,341.4	19.5	8.1	-132.13	401.3	-618.2	354.1	327.5	26.59	13.316		
6,420.1	6,310.0	6,415.3	6,360.8	19.5	8.1	-167.73	402.4	-621.5	353.7	327.1	26.64	13.279		
6,460.0	6,349.9	6,454.6	6,399.6	19.6	8.2	-166.62	404.5	-628.0	353.1	326.3	26.73	13.209		
6,500.0	6,389.9	6,494.0	6,438.4	19.7	8.2	-165.52	406.7	-634.5	352.5	325.7	26.82	13.144		
6,555.0	6,444.9	6,548.2	6,491.7	19.9	8.3	-163.99	409.6	-643.4	352.0	325.1	26.95	13.062		
6,600.0	6,489.9	6,592.5	6,535.4	20.0	8.4	-162.74	412.0	-650.7	351.8	324.8	27.06	13.003		
6,633.7	6,523.7	6,625.7	6,568.1	20.1	8.4	-161.80	413.8	-656.2	351.8	324.6	27.14	12.963		
6,650.0	6,539.9	6,641.7	6,583.9	20.2	8.4	-161.34	414.7	-658.8	351.8	324.6	27.18	12.944		
6,700.0	6,589.9	6,691.0	6,632.3	20.3	8.5	-159.95	417.3	-667.0	352.0	324.7	27.30	12.894		
6,745.0	6,634.9	6,735.3	6,676.0	20.4	8.6	-158.70	419.7	-674.3	352.3	324.9	27.41	12.855		
6,800.0	6,689.9	6,789.4	6,729.3	20.6	8.6	-157.18	422.7	-683.2	353.0	325.4	27.54	12.816		
6,840.0	6,729.9	6,828.8	6,768.1	20.7	8.7	-156.07	424.8	-689.7	353.6	326.0	27.64	12.793		
6,900.0	6,789.9	6,887.9	6,826.3	20.9	8.8	-154.42	428.0	-699.4	354.8	327.0	27.79	12.768		
6,935.0	6,824.9	6,922.4	6,860.3	21.0	8.8	-153.46	429.9	-705.1	355.6	327.8	27.88	12.757		
7,000.0	6,889.9	6,986.4	6,923.3	21.2	8.9	-151.70	433.4	-715.7	357.5	329.4	28.05	12.746		
7,030.0	6,919.9	7,016.2	6,952.6	21.3	8.9	-150.89	435.0	-720.6	358.4	330.3	28.13	12.744		
7,093.1	6,983.0	7,079.2	7,014.8	21.4	9.0	-149.27	438.2	-730.5	360.6	332.3	28.30	12.740		
7,100.0	6,989.9	7,086.1	7,021.6	21.5	9.0	30.44	438.6	-731.5	360.8	332.5	28.31	12.746		
7,125.0	7,014.9	7,111.1	7,046.3	21.5	9.1	31.10	439.8	-735.2	360.9	332.6	28.32	12.746		
7,150.0	7,039.9	7,136.0	7,071.0	21.5	9.1	31.88	441.0	-738.8	360.2	331.9	28.33	12.717		
7,200.0	7,089.3	7,185.5	7,119.9	21.7	9.2	33.83	443.2	-745.6	356.1	327.7	28.42	12.529		
7,220.0	7,108.9	7,205.0	7,139.2	21.8	9.2	34.76	444.1	-748.2	353.5	325.1	28.45	12.427		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8495-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,250.0	7,138.0	7,234.1	7,168.0	21.9	9.2	36.34	445.3	-752.0	348.7	320.2	28.47	12.247	
7,300.0	7,185.5	7,281.5	7,215.0	22.1	9.3	39.50	447.2	-757.7	338.2	309.8	28.47	11.881	
7,315.0	7,199.4	7,295.5	7,228.9	22.1	9.3	40.59	447.7	-759.4	334.6	306.1	28.46	11.758	
7,350.0	7,231.4	7,327.4	7,260.6	22.2	9.3	43.41	448.9	-763.0	325.2	296.8	28.40	11.451	
7,400.0	7,275.5	7,371.4	7,304.3	22.4	9.4	48.14	450.5	-767.7	310.1	281.9	28.26	10.974	
7,410.0	7,284.0	7,380.0	7,312.8	22.4	9.4	49.19	450.8	-768.6	306.9	278.7	28.22	10.875	
7,450.0	7,317.3	7,413.2	7,345.9	22.6	9.4	53.74	451.9	-771.9	293.8	265.7	28.05	10.474	
7,500.0	7,356.6	7,452.5	7,385.0	22.7	9.5	60.12	453.1	-775.6	277.1	249.3	27.77	9.979	
7,505.0	7,360.4	7,456.3	7,388.7	22.7	9.5	60.79	453.2	-775.9	275.5	247.7	27.74	9.931	
7,550.0	7,393.0	7,488.9	7,421.3	22.8	9.5	67.04	454.1	-778.8	261.4	233.9	27.46	9.518	
7,600.0	7,426.4	7,522.3	7,454.5	22.9	9.6	74.09	455.0	-781.5	248.3	221.1	27.22	9.123	
7,650.0	7,456.3	7,552.2	7,484.3	23.0	9.6	80.73	455.7	-783.7	239.8	212.6	27.18	8.821	
7,690.2	7,477.8	7,573.7	7,505.7	23.1	9.6	85.39	456.3	-785.3	237.4	210.0	27.39	8.669	
7,695.0	7,480.2	7,576.1	7,508.1	23.1	9.6	85.89	456.3	-785.5	237.5	210.0	27.43	8.657	
7,700.0	7,482.7	7,578.5	7,510.6	23.1	9.6	86.41	456.4	-785.6	237.6	210.1	27.48	8.646	
7,750.0	7,505.2	7,601.0	7,532.9	23.1	9.7	90.71	456.9	-787.1	243.1	215.0	28.14	8.641	
7,790.0	7,520.4	7,616.0	7,547.9	23.2	9.7	92.98	457.2	-788.1	253.5	224.7	28.84	8.789	
7,800.0	7,523.8	7,619.3	7,551.3	23.2	9.7	93.36	457.3	-788.3	256.9	227.9	29.03	8.850	
7,850.0	7,538.2	7,633.5	7,565.4	23.2	9.7	94.19	457.5	-789.2	278.4	248.4	29.95	9.296	
7,885.0	7,545.8	7,640.7	7,572.7	23.3	9.7	93.62	457.7	-789.6	297.4	266.8	30.52	9.742	
7,900.0	7,548.5	7,643.2	7,575.1	23.3	9.7	93.07	457.7	-789.8	306.3	275.6	30.74	9.964	
7,950.0	7,554.4	7,648.5	7,580.4	23.3	9.7	89.88	457.8	-790.1	339.4	308.0	31.37	10.819	
7,980.0	7,555.9	7,649.4	7,581.3	23.3	9.7	86.96	457.8	-790.1	361.1	329.4	31.67	11.403	
7,994.3	7,556.0	7,649.3	7,581.2	23.3	9.7	85.32	457.8	-790.1	371.8	340.0	31.79	11.696	
8,000.0	7,556.0	7,649.2	7,581.1	23.3	9.7	85.29	457.8	-790.1	376.2	344.4	31.83	11.817	
8,075.0	7,555.8	7,647.6	7,579.4	23.3	9.7	84.90	457.8	-790.0	436.2	403.9	32.30	13.505	
8,100.0	7,555.8	7,647.0	7,578.9	23.3	9.7	84.77	457.8	-790.0	457.2	424.8	32.41	14.107	
8,170.0	7,555.6	7,645.5	7,577.4	23.3	9.7	84.41	457.8	-789.9	517.9	485.3	32.64	15.865	
8,200.0	7,555.6	7,644.8	7,576.7	23.3	9.7	84.25	457.8	-789.9	544.6	511.9	32.72	16.646	
8,265.0	7,555.5	7,643.3	7,575.2	23.3	9.7	83.91	457.7	-789.8	603.5	570.7	32.84	18.380	
8,300.0	7,555.4	7,642.6	7,574.5	23.3	9.7	83.73	457.7	-789.7	635.7	602.8	32.88	19.333	
8,360.0	7,555.3	7,641.2	7,573.1	23.4	9.7	83.41	457.7	-789.6	691.6	658.6	32.95	20.990	
8,400.0	7,555.2	7,640.3	7,572.2	23.4	9.7	83.19	457.7	-789.6	729.1	696.2	32.98	22.110	
8,455.0	7,555.1	7,639.0	7,571.0	23.4	9.7	82.90	457.6	-789.5	781.2	748.2	33.01	23.665	
8,500.0	7,555.0	7,638.0	7,569.9	23.4	9.7	82.65	457.6	-789.5	824.1	791.1	33.03	24.948	
8,550.0	7,554.9	7,636.9	7,568.8	23.4	9.7	82.38	457.6	-789.4	872.0	839.0	33.05	26.382	
8,600.0	7,554.8	7,635.7	7,567.6	23.4	9.7	82.11	457.6	-789.3	920.1	887.1	33.07	27.825	
8,645.0	7,554.7	7,634.7	7,566.6	23.4	9.7	81.86	457.6	-789.3	963.6	930.5	33.08	29.130	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8568-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor		
0.0	0.0	44.4	44.4	3.0	3.0	-12.92	203.4	-46.6	208.7					
95.0	95.0	139.4	139.4	3.0	3.0	-12.92	203.4	-46.6	208.7	202.7	6.00	34.770		
100.0	100.0	144.4	144.4	3.0	3.0	-12.92	203.4	-46.6	208.7	202.7	6.00	34.768		
190.0	190.0	234.4	234.4	3.0	3.0	-12.92	203.4	-46.6	208.7	202.7	6.01	34.709		
200.0	200.0	244.4	244.4	3.0	3.0	-12.92	203.4	-46.6	208.7	202.7	6.01	34.699		
285.0	285.0	329.4	329.4	3.0	3.0	-12.92	203.4	-46.6	208.7	202.6	6.03	34.590		
300.0	300.0	344.4	344.4	3.0	3.0	-12.92	203.4	-46.6	208.7	202.6	6.04	34.567		
380.0	380.0	424.4	424.4	3.0	3.0	-12.92	203.4	-46.6	208.7	202.6	6.06	34.417		
400.0	400.0	444.4	444.4	3.0	3.0	-12.92	203.4	-46.6	208.7	202.6	6.07	34.373		
475.0	475.0	519.4	519.4	3.0	3.1	-12.92	203.4	-46.6	208.7	202.6	6.10	34.189		
500.0	500.0	544.4	544.4	3.1	3.1	-12.92	203.4	-46.6	208.7	202.6	6.12	34.121		
570.0	570.0	614.4	614.4	3.1	3.1	-12.92	203.4	-46.6	208.7	202.5	6.15	33.913		
600.0	600.0	644.4	644.4	3.1	3.1	-12.92	203.4	-46.6	208.7	202.5	6.17	33.815		
665.0	665.0	709.4	709.4	3.1	3.1	-12.92	203.4	-46.6	208.7	202.5	6.21	33.590		
700.0	700.0	744.4	744.4	3.1	3.1	-12.92	203.4	-46.6	208.7	202.4	6.24	33.460		
760.0	760.0	804.4	804.4	3.1	3.2	-12.92	203.4	-46.6	208.7	202.4	6.28	33.225		
800.0	800.0	844.4	844.4	3.2	3.2	-12.92	203.4	-46.6	208.7	202.4	6.31	33.059		
855.0	855.0	899.4	899.4	3.2	3.2	-12.92	203.4	-46.6	208.7	202.3	6.36	32.822		
900.0	900.0	944.4	944.4	3.2	3.2	-12.92	203.4	-46.6	208.7	202.3	6.40	32.619		
950.0	950.0	994.4	994.4	3.2	3.2	-12.92	203.4	-46.6	208.7	202.2	6.44	32.386		
1,000.0	1,000.0	1,044.4	1,044.4	3.2	3.3	-12.92	203.4	-46.6	208.7	202.2	6.49	32.145		
1,045.0	1,045.0	1,089.4	1,089.4	3.3	3.3	-12.92	203.4	-46.6	208.7	202.1	6.54	31.922		
1,100.0	1,100.0	1,144.4	1,144.4	3.3	3.3	-12.92	203.4	-46.6	208.7	202.1	6.60	31.642		
1,140.0	1,140.0	1,184.4	1,184.4	3.3	3.3	-12.92	203.4	-46.6	208.7	202.0	6.64	31.434		
1,200.0	1,200.0	1,244.4	1,244.4	3.4	3.4	-12.92	203.4	-46.6	208.7	202.0	6.71	31.116		
1,235.0	1,235.0	1,279.4	1,279.4	3.4	3.4	-12.92	203.4	-46.6	208.7	201.9	6.75	30.927		
1,300.0	1,300.0	1,344.4	1,344.4	3.4	3.4	-12.92	203.4	-46.6	208.7	201.9	6.83	30.571		
1,330.0	1,330.0	1,374.4	1,374.4	3.4	3.5	-12.92	203.4	-46.6	208.7	201.8	6.86	30.404		
1,400.0	1,400.0	1,444.4	1,444.4	3.5	3.5	-12.92	203.4	-46.6	208.7	201.7	6.95	30.012		
1,425.0	1,425.0	1,469.4	1,469.4	3.5	3.5	-12.92	203.4	-46.6	208.7	201.7	6.99	29.870		
1,500.0	1,500.0	1,544.4	1,544.4	3.5	3.6	-12.92	203.4	-46.6	208.7	201.6	7.09	29.443		
1,520.0	1,520.0	1,564.4	1,564.4	3.6	3.6	-12.92	203.4	-46.6	208.7	201.6	7.12	29.328		
1,600.0	1,600.0	1,644.4	1,644.4	3.6	3.7	-12.92	203.4	-46.6	208.7	201.5	7.23	28.868		
1,615.0	1,615.0	1,659.4	1,659.4	3.6	3.7	-12.92	203.4	-46.6	208.7	201.4	7.25	28.782		
1,700.0	1,700.0	1,744.4	1,744.4	3.7	3.7	-12.92	203.4	-46.6	208.7	201.3	7.38	28.291		
1,710.0	1,710.0	1,754.4	1,754.4	3.7	3.7	-12.92	203.4	-46.6	208.7	201.3	7.39	28.233		
1,800.0	1,800.0	1,844.4	1,844.4	3.8	3.8	-12.92	203.4	-46.6	208.7	201.2	7.53	27.714		
1,805.0	1,805.0	1,849.4	1,849.4	3.8	3.8	-12.92	203.4	-46.6	208.7	201.1	7.54	27.685		
1,900.0	1,900.0	1,944.4	1,944.4	3.9	3.9	-12.92	203.4	-46.6	208.7	201.0	7.69	27.140		
1,902.9	1,902.9	1,947.3	1,947.3	3.9	3.9	-12.92	203.4	-46.6	208.7	201.0	7.69	27.123		
1,995.0	1,995.0	2,038.3	2,038.3	3.9	4.0	-12.98	203.5	-46.9	208.8	201.0	7.84	26.647		
2,000.0	2,000.0	2,043.1	2,043.1	3.9	4.0	-13.00	203.5	-47.0	208.8	201.0	7.84	26.627		
2,090.0	2,090.0	2,130.5	2,130.4	4.1	4.0	22.63	204.0	-49.6	208.6	200.6	8.09	25.798		
2,100.0	2,100.0	2,140.2	2,140.1	4.1	4.0	22.55	204.1	-50.0	208.5	200.4	8.12	25.692		
2,185.0	2,184.9	2,222.5	2,222.3	4.7	4.0	21.69	205.1	-55.1	206.9	198.2	8.71	23.749		
2,200.0	2,199.8	2,237.1	2,236.8	4.8	4.1	21.50	205.3	-56.3	206.5	197.7	8.83	23.396		
2,280.0	2,279.6	2,314.4	2,313.8	5.3	4.1	20.30	206.7	-63.6	203.7	194.3	9.35	21.790		
2,300.0	2,299.5	2,333.7	2,333.0	5.4	4.1	19.95	207.2	-65.7	202.8	193.3	9.48	21.389		
2,375.0	2,373.9	2,406.0	2,404.6	5.8	4.1	18.43	209.0	-74.8	199.1	189.1	9.94	20.020		
2,400.0	2,398.7	2,430.1	2,428.4	6.0	4.1	17.85	209.7	-78.3	197.6	187.5	10.10	19.569		
2,470.0	2,467.9	2,497.3	2,494.8	6.4	4.2	15.99	211.8	-88.9	193.2	182.7	10.51	18.391		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8568-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance Between Centres (usft)		Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
+N/-S (usft)	+E/-W (usft)													
2,500.0	2,497.5	2,526.0	2,523.0	6.5	4.2	15.09	212.7	-93.9	191.2	180.5	10.68	17.897		
2,565.0	2,561.3	2,588.1	2,584.0	6.9	4.2	12.91	215.1	-105.7	186.5	175.4	11.04	16.894		
2,600.0	2,595.6	2,621.5	2,616.6	7.0	4.2	11.58	216.4	-112.5	183.8	172.6	11.22	16.373		
2,660.0	2,654.2	2,678.5	2,672.1	7.3	4.3	9.06	218.9	-125.1	179.1	167.6	11.52	15.543		
2,700.0	2,693.1	2,717.0	2,709.6	7.5	4.3	7.15	220.7	-134.2	175.9	164.2	11.71	15.016		
2,725.1	2,717.4	2,741.7	2,733.5	7.6	4.3	5.90	221.9	-140.0	173.7	162.0	11.74	14.795		
2,755.0	2,746.3	2,771.1	2,762.1	7.6	4.3	4.36	223.2	-147.0	171.1	159.4	11.77	14.543		
2,800.0	2,789.9	2,815.4	2,805.0	7.7	4.4	1.95	225.3	-157.5	167.5	155.7	11.80	14.200		
2,850.0	2,838.3	2,864.6	2,852.8	7.8	4.4	-0.83	227.6	-169.2	163.8	152.0	11.82	13.857		
2,900.0	2,886.7	2,913.8	2,900.5	7.9	4.4	-3.73	229.9	-180.9	160.6	148.7	11.83	13.571		
2,945.0	2,930.3	2,958.1	2,943.5	7.9	4.5	-6.44	232.0	-191.4	158.0	146.2	11.83	13.353		
3,000.0	2,983.5	3,012.2	2,996.0	8.1	4.5	-9.85	234.6	-204.2	155.4	143.6	11.82	13.151		
3,040.0	3,022.2	3,051.6	3,034.2	8.1	4.5	-12.40	236.4	-213.6	153.9	142.1	11.80	13.044		
3,100.0	3,080.3	3,110.6	3,091.5	8.3	4.6	-16.30	239.2	-227.6	152.2	140.4	11.75	12.954		
3,135.0	3,114.2	3,145.0	3,124.9	8.3	4.6	-18.61	240.8	-235.7	151.5	139.8	11.71	12.935 SF		
3,200.0	3,177.2	3,209.0	3,186.9	8.5	4.7	-22.94	243.8	-250.9	151.0	139.4	11.64	12.972 ES		
3,206.1	3,183.1	3,215.0	3,192.8	8.5	4.7	-23.34	244.1	-252.4	151.0	139.4	11.63	12.979 CC		
3,230.0	3,206.2	3,238.5	3,215.6	8.6	4.7	-24.94	245.2	-257.9	151.0	139.4	11.61	13.015		
3,300.0	3,274.0	3,307.4	3,282.4	8.7	4.8	-29.58	248.4	-274.3	151.9	140.4	11.53	13.180		
3,325.0	3,298.2	3,332.0	3,306.3	8.8	4.8	-31.22	249.6	-280.1	152.5	141.0	11.50	13.257		
3,400.0	3,370.8	3,405.8	3,377.9	9.0	4.8	-36.06	253.0	-297.6	154.9	143.5	11.44	13.539		
3,420.0	3,390.1	3,425.4	3,397.0	9.0	4.9	-37.32	253.9	-302.3	155.7	144.3	11.43	13.623		
3,500.0	3,467.6	3,504.2	3,473.3	9.2	4.9	-42.23	257.6	-321.0	159.9	148.4	11.42	13.996		
3,515.0	3,482.1	3,518.9	3,487.6	9.3	5.0	-43.12	258.3	-324.5	160.7	149.3	11.43	14.070		
3,600.0	3,564.4	3,602.6	3,568.8	9.5	5.0	-47.97	262.3	-344.3	166.6	155.1	11.49	14.502		
3,610.0	3,574.1	3,612.4	3,578.3	9.5	5.0	-48.52	262.7	-346.7	167.3	155.8	11.50	14.554		
3,700.0	3,661.2	3,700.9	3,664.3	9.8	5.1	-53.23	266.9	-367.7	174.9	163.2	11.64	15.019		
3,705.0	3,666.1	3,705.9	3,669.0	9.8	5.1	-53.48	267.1	-368.8	175.3	163.7	11.65	15.044		
3,800.0	3,758.0	3,799.3	3,759.7	10.1	5.2	-58.00	271.5	-391.0	184.5	172.6	11.89	15.522		
3,895.0	3,850.0	3,892.8	3,850.4	10.3	5.3	-62.06	275.9	-413.2	194.8	182.6	12.19	15.980		
3,900.0	3,854.8	3,897.7	3,855.2	10.3	5.3	-62.27	276.1	-414.4	195.3	183.1	12.21	16.003		
3,990.0	3,942.0	3,986.3	3,941.1	10.6	5.4	-65.72	280.3	-435.4	205.9	193.4	12.54	16.415		
4,000.0	3,951.7	3,996.1	3,950.7	10.6	5.5	-66.08	280.7	-437.7	207.1	194.5	12.58	16.459		
4,085.0	4,034.0	4,079.8	4,031.8	10.9	5.6	-68.99	284.7	-457.6	217.8	204.9	12.94	16.829		
4,100.0	4,048.5	4,094.5	4,046.1	10.9	5.6	-69.48	285.3	-461.1	219.7	206.7	13.01	16.893		
4,180.0	4,125.9	4,173.2	4,122.5	11.2	5.7	-71.92	289.0	-479.8	230.3	217.0	13.37	17.225		
4,200.0	4,145.3	4,192.9	4,141.6	11.3	5.7	-72.50	290.0	-484.4	233.0	219.6	13.46	17.307		
4,275.0	4,217.9	4,266.7	4,213.2	11.5	5.8	-74.55	293.4	-501.9	243.4	229.6	13.83	17.605		
4,300.0	4,242.1	4,291.3	4,237.1	11.6	5.8	-75.19	294.6	-507.8	246.9	233.0	13.95	17.703		
4,370.0	4,309.9	4,360.2	4,303.9	11.8	5.9	-76.91	297.8	-524.1	256.9	242.6	14.30	17.970		
4,400.0	4,338.9	4,389.7	4,332.6	11.9	5.9	-77.60	299.2	-531.1	261.3	246.8	14.45	18.083		
4,465.0	4,401.8	4,453.6	4,394.6	12.1	6.0	-79.03	302.2	-546.3	270.8	256.0	14.78	18.322		
4,500.0	4,435.7	4,488.1	4,428.0	12.2	6.1	-79.76	303.8	-554.5	276.0	261.1	14.96	18.448		
4,560.0	4,493.8	4,547.1	4,485.3	12.4	6.1	-80.94	306.6	-568.5	285.1	269.8	15.28	18.660		
4,600.0	4,532.5	4,586.5	4,523.5	12.5	6.2	-81.69	308.4	-577.8	291.2	275.7	15.49	18.800		
4,655.0	4,585.8	4,640.6	4,576.0	12.7	6.3	-82.67	311.0	-590.7	299.6	283.8	15.78	18.986		
4,700.0	4,629.4	4,684.9	4,619.0	12.9	6.3	-83.44	313.0	-601.2	306.6	290.5	16.02	19.137		
4,750.0	4,677.8	4,734.1	4,666.7	13.0	6.4	-84.25	315.4	-612.9	314.4	298.1	16.29	19.300		
4,800.0	4,726.2	4,783.3	4,714.4	13.2	6.5	-85.02	317.7	-624.5	322.2	305.7	16.56	19.460		
4,845.0	4,769.7	4,827.5	4,757.4	13.4	6.5	-85.68	319.7	-635.1	329.3	312.5	16.80	19.601		
4,900.0	4,823.0	4,881.7	4,809.9	13.5	6.6	-86.45	322.3	-647.9	338.1	321.0	17.10	19.770		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #705H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 8568-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance			Warning					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
4,940.0	4,861.7	4,921.0	4,848.1	13.7	6.7	-86.98	324.1	-657.2	344.5	327.2	17.32	19.890		
5,000.0	4,919.8	4,980.0	4,905.4	13.9	6.7	-87.75	326.9	-671.2	354.2	336.5	17.65	20.067		
5,035.0	4,953.7	5,014.5	4,938.8	14.0	6.8	-88.18	328.5	-679.4	359.8	342.0	17.84	20.168		
5,100.0	5,016.6	5,078.4	5,000.8	14.2	6.9	-88.94	331.5	-694.6	370.4	352.2	18.20	20.351		
5,130.0	5,045.7	5,108.0	5,029.5	14.3	6.9	-89.28	332.9	-701.6	375.3	356.9	18.37	20.434		
5,200.0	5,113.4	5,176.8	5,096.3	14.6	7.0	-90.03	336.1	-717.9	386.8	368.0	18.76	20.622		
5,225.0	5,137.6	5,201.4	5,120.2	14.7	7.1	-90.29	337.3	-723.8	390.9	372.0	18.90	20.688		
5,300.0	5,210.2	5,275.2	5,191.8	14.9	7.2	-91.03	340.7	-741.3	403.3	384.0	19.31	20.880		
5,320.0	5,229.6	5,294.9	5,210.9	15.0	7.2	-91.22	341.7	-746.0	406.6	387.2	19.43	20.931		
5,400.0	5,307.1	5,373.6	5,287.3	15.3	7.4	-91.96	345.4	-764.6	419.9	400.0	19.88	21.127		
5,415.0	5,321.6	5,388.4	5,301.6	15.3	7.4	-92.09	346.1	-768.2	422.4	402.4	19.96	21.163		
5,500.0	5,403.9	5,472.0	5,382.7	15.6	7.5	-92.81	350.0	-788.0	436.6	416.2	20.44	21.361		
5,510.0	5,413.6	5,481.8	5,392.3	15.7	7.5	-92.89	350.4	-790.3	438.3	417.8	20.50	21.384		
5,600.0	5,500.7	5,570.4	5,478.2	16.0	7.7	-93.60	354.6	-811.4	453.4	432.4	21.01	21.585		
5,605.0	5,505.5	5,575.3	5,483.0	16.0	7.7	-93.64	354.8	-812.5	454.3	433.2	21.03	21.596		
5,695.0	5,592.6	5,663.8	5,568.9	16.3	7.8	-94.30	359.0	-833.5	469.4	447.9	21.55	21.788		
5,700.0	5,597.5	5,668.8	5,573.7	16.3	7.9	-94.35	359.2	-834.7	470.3	448.7	21.57	21.799		
5,795.0	5,689.9	5,762.4	5,664.5	16.7	8.0	-95.12	363.6	-856.9	486.2	464.1	22.09	22.008		
5,800.0	5,694.8	5,767.3	5,669.2	16.7	8.0	-95.15	363.8	-858.1	487.1	465.0	22.12	22.019		
5,890.0	5,783.0	5,856.1	5,755.4	17.2	8.2	-95.49	368.0	-879.1	501.9	479.3	22.60	22.206		
5,900.0	5,792.8	5,865.9	5,764.9	17.2	8.2	-95.50	368.5	-881.5	503.6	480.9	22.66	22.227		
5,985.0	5,876.6	5,949.8	5,846.3	17.6	8.4	-95.49	372.4	-901.4	517.3	494.2	23.09	22.408		
6,000.0	5,891.4	5,964.5	5,860.6	17.7	8.4	-95.46	373.1	-904.9	519.7	496.6	23.16	22.440		
6,080.0	5,970.7	6,043.4	5,937.1	18.0	8.5	-95.17	376.8	-923.6	532.5	508.9	23.54	22.616		
6,100.0	5,990.6	6,063.1	5,956.2	18.1	8.6	-95.07	377.7	-928.3	535.6	512.0	23.64	22.660		
6,175.0	6,065.2	6,136.8	6,027.8	18.5	8.7	-94.56	381.2	-945.8	547.4	523.4	23.97	22.833		
6,200.0	6,090.2	6,161.3	6,051.6	18.6	8.8	-94.35	382.3	-951.6	551.3	527.3	24.08	22.892		
6,270.0	6,160.0	6,229.9	6,118.1	18.9	8.9	-93.67	385.5	-967.9	562.3	537.9	24.38	23.066		
6,300.0	6,190.0	6,259.2	6,146.6	19.0	8.9	-93.34	386.9	-974.8	567.0	542.5	24.50	23.142		
6,365.0	6,254.9	6,322.6	6,208.1	19.3	9.1	-92.54	389.9	-989.9	577.3	552.6	24.76	23.319		
6,400.0	6,289.9	6,356.7	6,241.1	19.5	9.1	-92.07	391.5	-998.0	582.9	558.0	24.89	23.417		
6,420.1	6,310.0	6,376.1	6,260.0	19.5	9.2	-127.93	392.4	-1,002.6	586.1	561.2	24.96	23.478		
6,460.0	6,349.9	6,414.9	6,297.6	19.6	9.3	-127.23	394.2	-1,011.8	592.6	567.5	25.11	23.598		
6,500.0	6,389.9	6,453.7	6,335.3	19.7	9.3	-126.55	396.0	-1,021.0	599.2	573.9	25.26	23.719		
6,555.0	6,444.9	6,507.1	6,387.0	19.9	9.4	-125.64	398.5	-1,033.7	608.3	582.9	25.47	23.881		
6,600.0	6,489.9	6,550.7	6,429.4	20.0	9.5	-124.91	400.6	-1,044.0	616.0	590.3	25.65	24.014		
6,650.0	6,539.9	6,599.2	6,476.5	20.2	9.6	-124.13	402.9	-1,055.5	624.5	598.7	25.85	24.160		
6,700.0	6,589.9	6,647.8	6,523.6	20.3	9.7	-123.36	405.1	-1,067.0	633.2	607.2	26.05	24.306		
6,745.0	6,634.9	6,691.4	6,565.9	20.4	9.8	-122.69	407.2	-1,077.4	641.1	614.9	26.24	24.437		
6,800.0	6,689.9	6,745.4	6,618.3	20.6	9.9	-121.88	409.7	-1,090.2	650.9	624.5	26.47	24.595		
6,840.0	6,729.9	6,787.9	6,659.5	20.7	10.0	-121.27	411.7	-1,100.1	658.0	631.3	26.65	24.692		
6,900.0	6,789.9	6,851.8	6,721.8	20.9	10.2	-120.41	414.5	-1,114.4	668.3	641.4	26.92	24.822		
6,935.0	6,824.9	6,889.3	6,758.4	21.0	10.2	-119.94	416.1	-1,122.5	674.1	647.0	27.09	24.888		
7,000.0	6,889.9	6,959.2	6,826.7	21.2	10.4	-119.12	419.0	-1,136.9	684.6	657.2	27.39	24.997		
7,030.0	6,919.9	6,991.6	6,858.4	21.3	10.4	-118.77	420.2	-1,143.3	689.2	661.7	27.53	25.039		
7,093.1	6,983.0	7,059.9	6,925.5	21.4	10.6	-118.07	422.8	-1,156.2	698.7	670.9	27.82	25.116		
7,100.0	6,989.9	7,067.4	6,932.9	21.5	10.6	61.47	423.1	-1,157.6	699.7	671.8	27.85	25.126		
7,125.0	7,014.9	7,094.6	6,959.5	21.5	10.6	61.51	424.0	-1,162.5	702.9	675.0	27.89	25.205		
7,150.0	7,039.9	7,121.6	6,986.2	21.5	10.7	61.68	425.0	-1,167.2	705.5	677.5	27.92	25.269		
7,200.0	7,089.3	7,175.4	7,039.1	21.7	10.8	62.38	426.8	-1,176.3	709.0	681.0	28.00	25.316		
7,220.0	7,108.9	7,196.7	7,060.1	21.8	10.8	62.79	427.4	-1,179.8	709.8	681.7	28.03	25.320		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #705H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 8568-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
7,250.0	7,138.0	7,228.3	7,091.4	21.9	10.8	63.53	428.4	-1,184.7	710.4	682.3	28.06	25.311	
7,300.0	7,185.5	7,280.1	7,142.5	22.1	10.9	65.11	430.0	-1,192.5	709.8	681.8	28.10	25.264	
7,315.0	7,199.4	7,295.3	7,157.5	22.1	10.9	65.66	430.4	-1,194.8	709.4	681.3	28.10	25.243	
7,350.0	7,231.4	7,330.2	7,192.0	22.2	11.0	67.07	431.4	-1,199.7	707.7	679.6	28.10	25.184	
7,400.0	7,275.5	7,378.2	7,239.7	22.4	11.1	69.36	432.6	-1,206.1	704.4	676.3	28.09	25.081	
7,410.0	7,284.0	7,387.6	7,248.9	22.4	11.1	69.85	432.9	-1,207.3	703.6	675.6	28.08	25.058	
7,450.0	7,317.3	7,423.9	7,285.0	22.6	11.1	71.89	433.8	-1,211.9	700.3	672.2	28.05	24.964	
7,500.0	7,356.6	7,466.9	7,327.7	22.7	11.2	74.58	434.8	-1,216.9	695.8	667.8	28.01	24.844	
7,505.0	7,360.4	7,471.1	7,331.8	22.7	11.2	74.85	434.9	-1,217.4	695.4	667.4	28.00	24.832	
7,550.0	7,393.0	7,506.8	7,367.3	22.8	11.2	77.31	435.7	-1,221.4	691.6	663.6	27.97	24.726	
7,600.0	7,426.4	7,543.3	7,403.6	22.9	11.3	79.96	436.4	-1,225.2	688.1	660.1	27.95	24.620	
7,650.0	7,456.3	7,576.1	7,436.2	23.0	11.3	82.40	437.1	-1,228.4	685.9	658.0	27.96	24.531	
7,683.5	7,474.4	7,595.9	7,455.9	23.1	11.4	83.86	437.4	-1,230.3	685.5	657.5	28.00	24.482	
7,695.0	7,480.2	7,602.2	7,462.2	23.1	11.4	84.31	437.5	-1,230.9	685.5	657.5	28.02	24.469	
7,700.0	7,482.7	7,604.9	7,464.9	23.1	11.4	84.50	437.6	-1,231.1	685.6	657.6	28.02	24.464	
7,750.0	7,505.2	7,629.5	7,489.4	23.1	11.4	86.16	438.0	-1,233.3	687.5	659.4	28.15	24.426	
7,790.0	7,520.4	7,646.0	7,505.8	23.2	11.4	87.09	438.3	-1,234.7	691.0	662.7	28.30	24.421	
7,800.0	7,523.8	7,649.6	7,509.4	23.2	11.4	87.26	438.4	-1,235.1	692.2	663.8	28.34	24.425	
7,850.0	7,538.2	7,665.2	7,524.9	23.2	11.4	87.74	438.6	-1,236.3	699.7	671.1	28.60	24.469	
7,885.0	7,545.8	7,673.2	7,532.9	23.3	11.4	87.67	438.7	-1,237.0	706.8	678.0	28.81	24.532	
7,900.0	7,548.5	7,676.0	7,535.7	23.3	11.4	87.53	438.8	-1,237.2	710.4	681.4	28.91	24.568	
7,950.0	7,554.4	7,681.9	7,541.6	23.3	11.4	86.60	438.9	-1,237.7	724.0	694.7	29.28	24.731	
7,980.0	7,555.9	7,683.0	7,542.7	23.3	11.5	85.69	438.9	-1,237.7	733.6	704.1	29.51	24.861	
7,994.3	7,556.0	7,683.0	7,542.6	23.3	11.5	85.17	438.9	-1,237.7	738.5	708.9	29.62	24.932	
8,000.0	7,556.0	7,682.8	7,542.5	23.3	11.5	85.16	438.9	-1,237.7	740.5	710.9	29.67	24.963	
8,075.0	7,555.8	7,681.4	7,541.1	23.3	11.4	85.04	438.9	-1,237.6	770.6	740.3	30.28	25.448	
8,100.0	7,555.8	7,680.9	7,540.6	23.3	11.4	85.00	438.9	-1,237.6	781.9	751.4	30.48	25.651	
8,170.0	7,555.6	7,679.6	7,539.3	23.3	11.4	84.88	438.8	-1,237.5	817.0	785.9	31.05	26.311	
8,200.0	7,555.6	7,679.0	7,538.7	23.3	11.4	84.83	438.8	-1,237.4	833.3	802.1	31.28	26.641	
8,265.0	7,555.5	7,677.7	7,537.4	23.3	11.4	84.73	438.8	-1,237.3	871.3	839.5	31.76	27.434	
8,300.0	7,555.4	7,677.0	7,536.7	23.3	11.4	84.67	438.8	-1,237.3	893.0	861.0	32.00	27.909	
8,360.0	7,555.3	7,675.8	7,535.5	23.4	11.4	84.57	438.8	-1,237.2	932.1	899.8	32.38	28.786	
8,400.0	7,555.2	7,675.0	7,534.8	23.4	11.4	84.51	438.8	-1,237.1	959.4	926.8	32.61	29.417	
8,455.0	7,555.1	7,673.9	7,533.7	23.4	11.4	84.42	438.8	-1,237.0	998.3	965.4	32.91	30.333	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #801H - OWB - PWP0														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 9475-MWD+IFR1+FDIR						Rule Assigned:						Offset Well Error: 3.0 usft	
Offset		Semi Major Axis								Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
0.0	0.0	4.4	4.4	3.0	3.0	2.21	343.4	13.3	343.7						
95.0	95.0	99.4	99.4	3.0	3.0	2.21	343.4	13.3	343.7	337.7	6.00	57.270			
100.0	100.0	104.4	104.4	3.0	3.0	2.21	343.4	13.3	343.7	337.7	6.00	57.269			
190.0	190.0	194.4	194.4	3.0	3.0	2.21	343.4	13.3	343.7	337.6	6.01	57.187			
200.0	200.0	204.4	204.4	3.0	3.0	2.21	343.4	13.3	343.7	337.6	6.01	57.172			
285.0	285.0	289.4	289.4	3.0	3.0	2.21	343.4	13.3	343.7	337.6	6.03	57.005			
300.0	300.0	304.4	304.4	3.0	3.0	2.21	343.4	13.3	343.7	337.6	6.03	56.968			
380.0	380.0	384.4	384.4	3.0	3.0	2.21	343.4	13.3	343.7	337.6	6.06	56.728			
400.0	400.0	404.4	404.4	3.0	3.0	2.21	343.4	13.3	343.7	337.6	6.07	56.658			
475.0	475.0	479.4	479.4	3.0	3.0	2.21	343.4	13.3	343.7	337.6	6.10	56.360			
500.0	500.0	504.4	504.4	3.1	3.1	2.21	343.4	13.3	343.7	337.5	6.11	56.248			
570.0	570.0	574.4	574.4	3.1	3.1	2.21	343.4	13.3	343.7	337.5	6.15	55.906			
600.0	600.0	604.4	604.4	3.1	3.1	2.21	343.4	13.3	343.7	337.5	6.16	55.745			
665.0	665.0	669.4	669.4	3.1	3.1	2.21	343.4	13.3	343.7	337.5	6.21	55.372			
700.0	700.0	704.4	704.4	3.1	3.1	2.21	343.4	13.3	343.7	337.4	6.23	55.157			
760.0	760.0	764.4	764.4	3.1	3.1	2.21	343.4	13.3	343.7	337.4	6.28	54.766			
800.0	800.0	804.4	804.4	3.2	3.2	2.21	343.4	13.3	343.7	337.4	6.31	54.491			
855.0	855.0	859.4	859.4	3.2	3.2	2.21	343.4	13.3	343.7	337.3	6.35	54.095			
900.0	900.0	904.4	904.4	3.2	3.2	2.21	343.4	13.3	343.7	337.3	6.39	53.757			
950.0	950.0	954.4	954.4	3.2	3.2	2.21	343.4	13.3	343.7	337.2	6.44	53.367			
1,000.0	1,000.0	1,004.4	1,004.4	3.2	3.2	2.21	343.4	13.3	343.7	337.2	6.49	52.964			
1,045.0	1,045.0	1,049.4	1,049.4	3.3	3.3	2.21	343.4	13.3	343.7	337.1	6.53	52.591			
1,100.0	1,100.0	1,104.4	1,104.4	3.3	3.3	2.21	343.4	13.3	343.7	337.1	6.59	52.122			
1,140.0	1,140.0	1,144.4	1,144.4	3.3	3.3	2.21	343.4	13.3	343.7	337.0	6.64	51.774			
1,200.0	1,200.0	1,204.4	1,204.4	3.4	3.4	2.21	343.4	13.3	343.7	337.0	6.71	51.240			
1,235.0	1,235.0	1,239.4	1,239.4	3.4	3.4	2.21	343.4	13.3	343.7	336.9	6.75	50.923			
1,300.0	1,300.0	1,304.4	1,304.4	3.4	3.4	2.21	343.4	13.3	343.7	336.8	6.83	50.326			
1,330.0	1,330.0	1,334.4	1,334.4	3.4	3.4	2.21	343.4	13.3	343.7	336.8	6.87	50.046			
1,400.0	1,400.0	1,404.4	1,404.4	3.5	3.5	2.21	343.4	13.3	343.7	336.7	6.96	49.388			
1,425.0	1,425.0	1,429.4	1,429.4	3.5	3.5	2.21	343.4	13.3	343.7	336.7	6.99	49.150			
1,500.0	1,500.0	1,504.4	1,504.4	3.5	3.5	2.21	343.4	13.3	343.7	336.6	7.10	48.433			
1,520.0	1,520.0	1,524.4	1,524.4	3.6	3.6	2.21	343.4	13.3	343.7	336.5	7.12	48.241			
1,600.0	1,600.0	1,604.4	1,604.4	3.6	3.6	2.21	343.4	13.3	343.7	336.4	7.24	47.469			
1,615.0	1,615.0	1,619.4	1,619.4	3.6	3.6	2.21	343.4	13.3	343.7	336.4	7.26	47.324			
1,700.0	1,700.0	1,704.4	1,704.4	3.7	3.7	2.21	343.4	13.3	343.7	336.3	7.39	46.501			
1,710.0	1,710.0	1,714.4	1,714.4	3.7	3.7	2.21	343.4	13.3	343.7	336.3	7.41	46.404			
1,800.0	1,800.0	1,804.4	1,804.4	3.8	3.8	2.21	343.4	13.3	343.7	336.1	7.55	45.534			
1,805.0	1,805.0	1,809.4	1,809.4	3.8	3.8	2.21	343.4	13.3	343.7	336.1	7.56	45.486			
1,900.0	1,900.0	1,904.4	1,904.4	3.9	3.9	2.21	343.4	13.3	343.7	335.9	7.71	44.573			
1,995.0	1,995.0	1,999.4	1,999.4	3.9	3.9	2.21	343.4	13.3	343.7	335.8	7.87	43.669			
2,000.0	2,000.0	2,004.4	2,004.4	3.9	3.9	2.21	343.4	13.3	343.7	335.8	7.88	43.622			
2,090.0	2,090.0	2,094.4	2,094.4	4.1	4.0	38.51	343.4	13.3	342.5	334.4	8.13	42.123			
2,100.0	2,100.0	2,104.4	2,104.4	4.1	4.0	38.55	343.4	13.3	342.3	334.1	8.16	41.944			
2,185.0	2,184.9	2,189.3	2,189.3	4.7	4.1	39.04	343.4	13.3	339.0	330.3	8.72	38.888			
2,200.0	2,199.8	2,204.2	2,204.2	4.8	4.1	39.16	343.4	13.3	338.2	329.4	8.82	38.351			
2,280.0	2,279.6	2,284.0	2,284.0	5.3	4.2	39.95	343.4	13.3	333.0	323.7	9.30	35.801			
2,300.0	2,299.5	2,303.9	2,303.9	5.4	4.2	40.19	343.4	13.3	331.5	322.1	9.42	35.172			
2,375.0	2,373.9	2,378.3	2,378.3	5.8	4.3	41.28	343.4	13.3	324.8	315.0	9.84	32.996			
2,400.0	2,398.7	2,403.1	2,403.1	6.0	4.3	41.71	343.4	13.3	322.3	312.3	9.98	32.285			
2,470.0	2,467.9	2,472.3	2,472.3	6.4	4.4	43.09	343.4	13.3	314.4	304.1	10.34	30.414			
2,500.0	2,497.5	2,500.0	2,500.0	6.5	4.4	43.74	343.4	13.3	310.7	300.2	10.48	29.634			

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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #801H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9475-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor		
2,565.0	2,561.3	2,562.1	2,562.1	6.9	4.4	45.47	343.7	13.9	302.5	291.7	10.76	28.104	
2,600.0	2,595.6	2,594.4	2,594.4	7.0	4.5	46.58	344.1	14.7	298.1	287.2	10.90	27.341	
2,660.0	2,654.2	2,649.5	2,649.4	7.3	4.5	48.80	345.1	16.8	290.6	279.5	11.10	26.195	
2,700.0	2,693.1	2,685.9	2,685.8	7.5	4.5	50.51	346.0	18.7	285.9	274.7	11.20	25.519	
2,725.1	2,717.4	2,708.6	2,708.4	7.6	4.5	51.67	346.6	20.1	283.1	271.9	11.20	25.276	
2,755.0	2,746.3	2,735.6	2,735.4	7.6	4.6	53.09	347.5	22.0	279.9	268.8	11.19	25.028	
2,800.0	2,789.9	2,776.2	2,775.7	7.7	4.6	55.32	349.0	25.3	276.0	264.8	11.15	24.747	
2,850.0	2,838.3	2,821.0	2,820.3	7.8	4.6	57.95	351.0	29.5	272.8	261.6	11.12	24.527	
2,900.0	2,886.7	2,865.6	2,864.6	7.9	4.6	60.71	353.3	34.4	270.8	259.7	11.07	24.458 SF	
2,945.0	2,930.3	2,905.9	2,904.6	7.9	4.7	63.30	355.6	39.3	270.2	259.2	11.03	24.498 ES	
2,948.1	2,933.3	2,908.9	2,907.5	8.0	4.7	63.49	355.7	39.6	270.2	259.2	11.03	24.505 CC	
3,000.0	2,983.5	2,958.3	2,956.4	8.1	4.7	66.69	358.7	45.9	270.7	259.7	10.97	24.666	
3,040.0	3,022.2	2,996.4	2,994.1	8.1	4.7	69.15	360.9	50.7	271.7	260.8	10.94	24.835	
3,100.0	3,080.3	3,053.5	3,050.7	8.3	4.8	72.79	364.3	57.9	274.2	263.3	10.89	25.173	
3,135.0	3,114.2	3,086.8	3,083.7	8.3	4.8	74.88	366.2	62.1	276.2	265.3	10.87	25.402	
3,200.0	3,177.2	3,148.7	3,145.0	8.5	4.8	78.68	369.9	69.9	281.0	270.2	10.85	25.893	
3,230.0	3,206.2	3,177.2	3,173.2	8.6	4.8	80.39	371.6	73.5	283.7	272.8	10.85	26.137	
3,300.0	3,274.0	3,243.9	3,239.2	8.7	4.9	84.26	375.5	81.9	290.9	280.0	10.87	26.752	
3,325.0	3,298.2	3,267.7	3,262.8	8.8	4.9	85.60	376.9	84.9	293.8	282.9	10.89	26.979	
3,400.0	3,370.8	3,339.1	3,333.5	9.0	5.0	89.46	381.1	93.9	303.6	292.6	10.96	27.687	
3,420.0	3,390.1	3,358.1	3,352.4	9.0	5.0	90.45	382.2	96.3	306.4	295.4	10.99	27.877	
3,500.0	3,467.6	3,434.3	3,427.8	9.2	5.0	94.24	386.7	105.9	318.7	307.5	11.12	28.651	
3,515.0	3,482.1	3,448.6	3,441.9	9.3	5.1	94.92	387.6	107.7	321.1	310.0	11.15	28.796	
3,600.0	3,564.4	3,529.5	3,522.1	9.5	5.1	98.59	392.4	117.9	335.9	324.5	11.34	29.617	
3,610.0	3,574.1	3,539.0	3,531.5	9.5	5.1	99.00	392.9	119.1	337.7	326.3	11.37	29.712	
3,700.0	3,661.2	3,624.7	3,616.3	9.8	5.2	102.52	398.0	129.9	354.9	343.3	11.61	30.569	
3,705.0	3,666.1	3,629.5	3,621.1	9.8	5.2	102.70	398.3	130.5	355.9	344.3	11.62	30.616	
3,800.0	3,758.0	3,719.9	3,710.6	10.1	5.3	106.05	403.6	141.9	375.5	363.6	11.92	31.501	
3,895.0	3,850.0	3,810.3	3,800.2	10.3	5.4	109.08	408.9	153.3	396.2	384.0	12.24	32.367	
3,900.0	3,854.8	3,815.1	3,804.9	10.3	5.4	109.23	409.2	153.9	397.3	385.1	12.26	32.412	
3,990.0	3,942.0	3,900.8	3,889.7	10.6	5.4	111.81	414.3	164.7	417.9	405.4	12.58	33.212	
4,000.0	3,951.7	3,910.3	3,899.2	10.6	5.4	112.08	414.8	165.9	420.3	407.7	12.62	33.300	
4,085.0	4,034.0	3,991.2	3,979.3	10.9	5.5	114.28	419.6	176.1	440.5	427.6	12.94	34.036	
4,100.0	4,048.5	4,005.5	3,993.4	10.9	5.5	114.65	420.4	177.9	444.1	431.1	13.00	34.164	
4,180.0	4,125.9	4,081.7	4,068.9	11.2	5.6	116.51	424.9	187.5	463.8	450.5	13.31	34.837	
4,200.0	4,145.3	4,100.7	4,087.7	11.3	5.6	116.95	426.1	189.9	468.8	455.4	13.39	35.003	
4,275.0	4,217.9	4,172.1	4,158.4	11.5	5.7	118.53	430.3	198.9	487.7	474.0	13.69	35.616	
4,300.0	4,242.1	4,195.9	4,182.0	11.6	5.7	119.03	431.7	201.9	494.1	480.3	13.80	35.817	
4,370.0	4,309.9	4,262.5	4,248.0	11.8	5.8	120.37	435.6	210.3	512.2	498.1	14.08	36.371	
4,400.0	4,338.9	4,291.1	4,276.3	11.9	5.8	120.92	437.3	213.9	520.0	505.8	14.21	36.605	
4,465.0	4,401.8	4,353.0	4,337.6	12.1	5.9	122.04	440.9	221.7	537.1	522.6	14.48	37.102	
4,500.0	4,435.7	4,386.3	4,370.6	12.2	5.9	122.62	442.9	225.9	546.4	531.8	14.62	37.366	
4,560.0	4,493.8	4,443.4	4,427.1	12.4	5.9	123.57	446.3	233.1	562.4	547.5	14.87	37.809	
4,600.0	4,532.5	4,481.5	4,464.8	12.5	6.0	124.17	448.5	237.9	573.2	558.1	15.04	38.100	
4,655.0	4,585.8	4,533.9	4,516.7	12.7	6.0	124.97	451.6	244.5	588.1	572.8	15.28	38.492	
4,700.0	4,629.4	4,576.7	4,559.1	12.9	6.1	125.59	454.1	249.9	600.3	584.9	15.47	38.807	
4,750.0	4,677.8	4,624.3	4,606.2	13.0	6.1	126.25	456.9	255.9	614.0	598.4	15.68	39.150	
4,800.0	4,726.2	4,671.9	4,653.4	13.2	6.2	126.88	459.7	261.9	627.8	611.9	15.90	39.487	
4,845.0	4,769.7	4,714.8	4,695.8	13.4	6.2	127.43	462.3	267.3	640.3	624.2	16.09	39.784	
4,900.0	4,823.0	4,767.1	4,747.7	13.5	6.3	128.07	465.4	273.9	655.6	639.2	16.33	40.140	
4,940.0	4,861.7	4,805.2	4,785.4	13.7	6.3	128.52	467.6	278.7	666.7	650.2	16.51	40.394	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #801H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program:		0-Standard Keeper 104, 9475-MWD+IFR1+FDIR						Rule Assigned:					Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.0	4,919.8	4,862.3	4,841.9	13.9	6.4	129.16	471.0	285.9	683.6	666.8	16.77	40.766		
5,035.0	4,953.7	4,895.6	4,874.9	14.0	6.4	129.52	472.9	290.1	693.4	676.5	16.92	40.980		
5,100.0	5,016.6	4,957.5	4,936.2	14.2	6.5	130.17	476.6	297.9	711.8	694.6	17.21	41.367		
5,130.0	5,045.7	4,986.1	4,964.5	14.3	6.5	130.46	478.3	301.5	720.3	702.9	17.34	41.542		
5,200.0	5,113.4	5,052.7	5,030.5	14.6	6.6	131.10	482.2	309.9	740.2	722.5	17.65	41.943		
5,225.0	5,137.6	5,076.5	5,054.1	14.7	6.6	131.32	483.6	312.9	747.3	729.5	17.76	42.083		
5,300.0	5,210.2	5,147.9	5,124.8	14.9	6.7	131.97	487.8	321.9	768.7	750.7	18.09	42.494		
5,320.0	5,229.6	5,167.0	5,143.6	15.0	6.7	132.13	489.0	324.3	774.5	756.3	18.18	42.601		
5,400.0	5,307.1	5,243.1	5,219.0	15.3	6.8	132.77	493.4	333.9	797.5	778.9	18.54	43.021		
5,415.0	5,321.6	5,257.4	5,233.2	15.3	6.8	132.88	494.3	335.7	801.8	783.2	18.60	43.098		
5,500.0	5,403.9	5,338.3	5,313.3	15.6	6.9	133.51	499.1	345.9	826.3	807.3	18.98	43.526		
5,510.0	5,413.6	5,347.9	5,322.7	15.7	6.9	133.59	499.6	347.1	829.2	810.2	19.03	43.575		
5,600.0	5,500.7	5,433.5	5,407.6	16.0	7.0	134.21	504.7	357.9	855.3	835.9	19.43	44.009		
5,605.0	5,505.5	5,438.3	5,412.3	16.0	7.0	134.24	505.0	358.5	856.7	837.3	19.46	44.032		
5,695.0	5,592.6	5,524.0	5,497.1	16.3	7.1	134.83	510.0	369.3	882.9	863.1	19.86	44.448		
5,700.0	5,597.5	5,528.8	5,501.9	16.3	7.1	134.88	510.3	369.9	884.4	864.5	19.89	44.470		
5,795.0	5,689.9	5,619.7	5,591.9	16.7	7.2	135.77	515.7	381.3	910.9	890.6	20.33	44.812		
5,800.0	5,694.8	5,624.5	5,596.6	16.7	7.2	135.81	515.9	381.9	912.2	891.9	20.35	44.826		
5,890.0	5,783.0	5,711.3	5,682.7	17.2	7.3	136.46	521.1	392.9	935.3	914.5	20.80	44.975		
5,900.0	5,792.8	5,721.0	5,692.2	17.2	7.3	136.52	521.6	394.1	937.8	916.9	20.85	44.984		
5,985.0	5,876.6	5,803.6	5,774.1	17.6	7.4	136.96	526.5	404.5	957.5	936.3	21.26	45.031		
6,000.0	5,891.4	5,818.3	5,788.6	17.7	7.4	137.02	527.4	406.4	960.8	939.5	21.34	45.029		
6,080.0	5,970.7	5,896.5	5,866.0	18.0	7.5	137.29	532.0	416.2	977.5	955.8	21.73	44.992		
6,100.0	5,990.6	5,916.1	5,885.5	18.1	7.5	137.34	533.1	418.7	981.4	959.6	21.82	44.970		
6,175.0	6,065.2	5,989.8	5,958.4	18.5	7.6	137.45	537.5	428.0	995.2	973.0	22.18	44.865		
6,200.0	6,090.2	6,014.4	5,982.8	18.6	7.6	137.47	538.9	431.1	999.5	977.2	22.30	44.816		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #802H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9442-MWD+IFR1+FDIR													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)			
0.0	0.0	4.4	4.4	3.0	3.0	-2.79	343.4	-16.7	343.8					
95.0	95.0	99.4	99.4	3.0	3.0	-2.79	343.4	-16.7	343.8	337.8	6.00	57.298		
100.0	100.0	104.4	104.4	3.0	3.0	-2.79	343.4	-16.7	343.8	337.8	6.00	57.297		
190.0	190.0	194.4	194.4	3.0	3.0	-2.79	343.4	-16.7	343.8	337.8	6.01	57.215		
200.0	200.0	204.4	204.4	3.0	3.0	-2.79	343.4	-16.7	343.8	337.8	6.01	57.201		
285.0	285.0	289.4	289.4	3.0	3.0	-2.79	343.4	-16.7	343.8	337.8	6.03	57.033		
300.0	300.0	304.4	304.4	3.0	3.0	-2.79	343.4	-16.7	343.8	337.8	6.03	56.996		
380.0	380.0	384.4	384.4	3.0	3.0	-2.79	343.4	-16.7	343.8	337.8	6.06	56.756		
400.0	400.0	404.4	404.4	3.0	3.0	-2.79	343.4	-16.7	343.8	337.8	6.07	56.686		
475.0	475.0	479.4	479.4	3.0	3.0	-2.79	343.4	-16.7	343.8	337.7	6.10	56.388		
500.0	500.0	504.4	504.4	3.1	3.1	-2.79	343.4	-16.7	343.8	337.7	6.11	56.277		
570.0	570.0	574.4	574.4	3.1	3.1	-2.79	343.4	-16.7	343.8	337.7	6.15	55.934		
600.0	600.0	604.4	604.4	3.1	3.1	-2.79	343.4	-16.7	343.8	337.7	6.16	55.774		
665.0	665.0	669.4	669.4	3.1	3.1	-2.79	343.4	-16.7	343.8	337.6	6.21	55.400		
700.0	700.0	704.4	704.4	3.1	3.1	-2.79	343.4	-16.7	343.8	337.6	6.23	55.185		
760.0	760.0	764.4	764.4	3.1	3.1	-2.79	343.4	-16.7	343.8	337.6	6.27	54.794		
800.0	800.0	804.4	804.4	3.2	3.2	-2.79	343.4	-16.7	343.8	337.5	6.31	54.519		
855.0	855.0	859.4	859.4	3.2	3.2	-2.79	343.4	-16.7	343.8	337.5	6.35	54.123		
900.0	900.0	904.4	904.4	3.2	3.2	-2.79	343.4	-16.7	343.8	337.4	6.39	53.785		
950.0	950.0	954.4	954.4	3.2	3.2	-2.79	343.4	-16.7	343.8	337.4	6.44	53.396		
1,000.0	1,000.0	1,004.4	1,004.4	3.2	3.2	-2.79	343.4	-16.7	343.8	337.3	6.49	52.993		
1,045.0	1,045.0	1,049.4	1,049.4	3.3	3.3	-2.79	343.4	-16.7	343.8	337.3	6.53	52.619		
1,100.0	1,100.0	1,104.4	1,104.4	3.3	3.3	-2.79	343.4	-16.7	343.8	337.2	6.59	52.150		
1,140.0	1,140.0	1,144.4	1,144.4	3.3	3.3	-2.79	343.4	-16.7	343.8	337.2	6.64	51.802		
1,200.0	1,200.0	1,204.4	1,204.4	3.4	3.4	-2.79	343.4	-16.7	343.8	337.1	6.71	51.268		
1,235.0	1,235.0	1,239.4	1,239.4	3.4	3.4	-2.79	343.4	-16.7	343.8	337.1	6.75	50.951		
1,300.0	1,300.0	1,304.4	1,304.4	3.4	3.4	-2.79	343.4	-16.7	343.8	337.0	6.83	50.354		
1,330.0	1,330.0	1,334.4	1,334.4	3.4	3.4	-2.79	343.4	-16.7	343.8	337.0	6.87	50.075		
1,400.0	1,400.0	1,404.4	1,404.4	3.5	3.5	-2.79	343.4	-16.7	343.8	336.9	6.96	49.416		
1,425.0	1,425.0	1,429.4	1,429.4	3.5	3.5	-2.79	343.4	-16.7	343.8	336.8	6.99	49.178		
1,500.0	1,500.0	1,504.4	1,504.4	3.5	3.5	-2.79	343.4	-16.7	343.8	336.7	7.09	48.461		
1,520.0	1,520.0	1,524.4	1,524.4	3.6	3.6	-2.79	343.4	-16.7	343.8	336.7	7.12	48.269		
1,600.0	1,600.0	1,604.4	1,604.4	3.6	3.6	-2.79	343.4	-16.7	343.8	336.6	7.24	47.497		
1,615.0	1,615.0	1,619.4	1,619.4	3.6	3.6	-2.79	343.4	-16.7	343.8	336.6	7.26	47.352		
1,700.0	1,700.0	1,704.4	1,704.4	3.7	3.7	-2.79	343.4	-16.7	343.8	336.4	7.39	46.529		
1,710.0	1,710.0	1,714.4	1,714.4	3.7	3.7	-2.79	343.4	-16.7	343.8	336.4	7.40	46.432		
1,800.0	1,800.0	1,804.4	1,804.4	3.8	3.8	-2.79	343.4	-16.7	343.8	336.3	7.55	45.562		
1,805.0	1,805.0	1,809.4	1,809.4	3.8	3.8	-2.79	343.4	-16.7	343.8	336.3	7.55	45.514		
1,900.0	1,900.0	1,904.4	1,904.4	3.9	3.9	-2.79	343.4	-16.7	343.8	336.1	7.71	44.601		
1,995.0	1,995.0	1,999.4	1,999.4	3.9	3.9	-2.79	343.4	-16.7	343.8	336.0	7.87	43.696		
2,000.0	2,000.0	2,004.4	2,004.4	3.9	3.9	-2.79	343.4	-16.7	343.8	335.9	7.88	43.649		
2,090.0	2,090.0	2,094.4	2,094.4	4.1	4.0	33.50	343.4	-16.7	342.6	334.5	8.14	42.093		
2,100.0	2,100.0	2,104.4	2,104.4	4.1	4.0	33.53	343.4	-16.7	342.4	334.2	8.17	41.902		
2,185.0	2,184.9	2,189.3	2,189.3	4.7	4.1	33.96	343.4	-16.7	338.9	330.1	8.76	38.687		
2,200.0	2,199.8	2,204.2	2,204.2	4.8	4.1	34.07	343.4	-16.7	338.0	329.2	8.87	38.118		
2,280.0	2,279.6	2,284.0	2,284.0	5.3	4.2	34.78	343.4	-16.7	332.5	323.1	9.38	35.446		
2,300.0	2,299.5	2,303.9	2,303.9	5.4	4.2	34.99	343.4	-16.7	330.8	321.3	9.51	34.786		
2,375.0	2,373.9	2,378.3	2,378.3	5.8	4.3	35.97	343.4	-16.7	323.6	313.7	9.96	32.502		
2,400.0	2,398.7	2,403.1	2,403.1	6.0	4.3	36.36	343.4	-16.7	320.9	310.8	10.11	31.753		
2,470.0	2,467.9	2,472.3	2,472.3	6.4	4.4	37.61	343.4	-16.7	312.4	301.9	10.49	29.775		
2,500.0	2,497.5	2,500.0	2,500.0	6.5	4.4	38.19	343.4	-16.7	308.4	297.8	10.65	28.946		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #802H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: 0-Standard Keeper 104, 9442-MWD+IFR1+FDIR													Offset Well Error: 3.0 usft	
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Rule Assigned: Distance				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
2,565.0	2,561.3	2,560.8	2,560.8	6.9	4.4	39.57	343.9	-17.1	299.5	288.6	10.98	27.284		
2,600.0	2,595.6	2,592.7	2,592.7	7.0	4.5	40.33	344.6	-17.6	294.8	283.6	11.15	26.441		
2,660.0	2,654.2	2,647.6	2,647.5	7.3	4.5	41.70	346.5	-19.0	286.7	275.3	11.42	25.112		
2,700.0	2,693.1	2,684.2	2,684.1	7.5	4.6	42.66	348.2	-20.3	281.4	269.8	11.59	24.278		
2,725.1	2,717.4	2,707.3	2,707.1	7.6	4.6	43.29	349.4	-21.2	278.1	266.4	11.62	23.921		
2,755.0	2,746.3	2,734.8	2,734.5	7.6	4.6	43.99	351.2	-22.5	274.2	262.6	11.66	23.518		
2,800.0	2,789.9	2,778.1	2,777.7	7.7	4.6	45.05	354.2	-24.7	268.9	257.1	11.72	22.947		
2,850.0	2,838.3	2,827.4	2,826.8	7.8	4.7	46.31	357.6	-27.2	263.0	251.2	11.79	22.305		
2,900.0	2,886.7	2,876.8	2,876.0	7.9	4.7	47.63	361.1	-29.8	257.3	245.5	11.86	21.691		
2,945.0	2,930.3	2,921.1	2,920.2	7.9	4.8	48.86	364.2	-32.1	252.3	240.4	11.94	21.141		
3,000.0	2,983.5	2,975.4	2,974.2	8.1	4.8	50.44	368.0	-34.9	246.4	234.4	12.02	20.503		
3,040.0	3,022.2	3,014.8	3,013.5	8.1	4.8	51.63	370.8	-36.9	242.2	230.1	12.08	20.054		
3,100.0	3,080.3	3,074.0	3,072.5	8.3	4.9	53.49	374.9	-40.0	236.1	223.9	12.16	19.416		
3,135.0	3,114.2	3,108.5	3,106.9	8.3	4.9	54.63	377.3	-41.8	232.7	220.5	12.21	19.059		
3,200.0	3,177.2	3,172.6	3,170.7	8.5	5.0	56.81	381.8	-45.1	226.5	214.3	12.29	18.437		
3,230.0	3,206.2	3,202.2	3,200.2	8.6	5.0	57.86	383.9	-46.6	223.8	211.5	12.32	18.164		
3,300.0	3,274.0	3,271.3	3,269.0	8.7	5.1	60.41	388.7	-50.2	217.8	205.4	12.40	17.571		
3,325.0	3,298.2	3,295.9	3,293.5	8.8	5.1	61.35	390.5	-51.5	215.8	203.4	12.42	17.371		
3,400.0	3,370.8	3,369.9	3,367.2	9.0	5.2	64.28	395.7	-55.3	210.0	197.5	12.49	16.821		
3,420.0	3,390.1	3,389.6	3,386.9	9.0	5.2	65.08	397.0	-56.3	208.6	196.1	12.50	16.684		
3,500.0	3,467.6	3,468.5	3,465.5	9.2	5.3	68.42	402.6	-60.4	203.3	190.7	12.56	16.189		
3,515.0	3,482.1	3,483.3	3,480.2	9.3	5.3	69.06	403.6	-61.2	202.4	189.8	12.57	16.104		
3,600.0	3,564.4	3,567.2	3,563.7	9.5	5.4	72.81	409.5	-65.5	197.7	185.1	12.61	15.674		
3,610.0	3,574.1	3,577.0	3,573.6	9.5	5.4	73.26	410.2	-66.0	197.2	184.6	12.62	15.629		
3,700.0	3,661.2	3,665.8	3,662.0	9.8	5.5	77.42	416.4	-70.6	193.4	180.7	12.66	15.270		
3,705.0	3,666.1	3,670.7	3,666.9	9.8	5.5	77.66	416.8	-70.9	193.2	180.5	12.66	15.253		
3,800.0	3,758.0	3,764.4	3,760.2	10.1	5.6	82.21	423.3	-75.7	190.4	177.6	12.72	14.967		
3,895.0	3,850.0	3,858.1	3,853.6	10.3	5.7	86.87	429.9	-80.6	188.8	176.0	12.79	14.761		
3,900.0	3,854.8	3,863.0	3,858.5	10.3	5.7	87.11	430.3	-80.8	188.8	176.0	12.80	14.752		
3,961.4	3,914.3	3,923.6	3,918.8	10.5	5.7	90.15	434.5	-83.9	188.5	175.6	12.86	14.655 CC, ES		
3,990.0	3,942.0	3,951.8	3,946.9	10.6	5.7	91.56	436.5	-85.4	188.5	175.6	12.90	14.618		
4,000.0	3,951.7	3,961.7	3,956.7	10.6	5.8	92.06	437.2	-85.9	188.6	175.7	12.91	14.607		
4,085.0	4,034.0	4,045.5	4,040.3	10.9	5.8	96.24	443.0	-90.3	189.6	176.5	13.05	14.526		
4,100.0	4,048.5	4,060.3	4,055.0	10.9	5.9	96.98	444.1	-91.0	189.9	176.8	13.08	14.515		
4,180.0	4,125.9	4,139.2	4,133.6	11.2	5.9	100.84	449.6	-95.1	191.9	178.6	13.26	14.470		
4,200.0	4,145.3	4,158.9	4,153.2	11.3	6.0	101.79	451.0	-96.1	192.6	179.2	13.31	14.462		
4,275.0	4,217.9	4,232.9	4,226.9	11.5	6.0	105.31	456.2	-99.9	195.5	181.9	13.54	14.440		
4,300.0	4,242.1	4,257.6	4,251.5	11.6	6.1	106.45	457.9	-101.2	196.6	183.0	13.62	14.436		
4,370.0	4,309.9	4,326.6	4,320.3	11.8	6.1	109.59	462.8	-104.8	200.2	186.3	13.87	14.430		
4,400.0	4,338.9	4,356.2	4,349.8	11.9	6.2	110.90	464.8	-106.3	201.9	187.9	13.99	14.431		
4,465.0	4,401.8	4,420.3	4,413.6	12.1	6.2	113.66	469.3	-109.6	206.0	191.7	14.27	14.439		
4,500.0	4,435.7	4,454.8	4,448.0	12.2	6.3	115.10	471.8	-111.4	208.4	194.0	14.43	14.447		
4,560.0	4,493.8	4,514.0	4,507.0	12.4	6.3	117.49	475.9	-114.5	212.8	198.1	14.71	14.466		
4,600.0	4,532.5	4,553.4	4,546.3	12.5	6.4	119.03	478.7	-116.5	216.0	201.1	14.91	14.483		
4,655.0	4,585.8	4,607.7	4,600.3	12.7	6.4	121.08	482.5	-119.3	220.5	205.3	15.20	14.512		
4,700.0	4,629.4	4,652.1	4,644.5	12.9	6.5	122.69	485.6	-121.6	224.5	209.0	15.44	14.540		
4,750.0	4,677.8	4,701.4	4,693.6	13.0	6.5	124.41	489.0	-124.2	229.1	213.4	15.71	14.578		
4,800.0	4,726.2	4,750.7	4,742.8	13.2	6.6	126.07	492.5	-126.7	233.9	217.9	16.00	14.621		
4,845.0	4,769.7	4,795.1	4,787.0	13.4	6.7	127.50	495.6	-129.0	238.3	222.1	16.25	14.665		
4,900.0	4,823.0	4,849.3	4,841.0	13.5	6.7	129.18	499.4	-131.8	244.0	227.4	16.57	14.724		
4,940.0	4,861.7	4,888.8	4,880.3	13.7	6.8	130.36	502.2	-133.9	248.2	231.4	16.81	14.771		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #802H - OWB - PWP0												Offset Site Error: 0.0 usft		
Survey Program: 0-Standard Keeper 104, 9442-MWD+IFR1+FDIR				Rule Assigned:								Offset Well Error: 3.0 usft		
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance					
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.0	4,919.8	4,947.9	4,939.3	13.9	6.8	132.04	506.3	-136.9	254.8	237.6	17.16	14.848		
5,035.0	4,953.7	4,982.5	4,973.7	14.0	6.9	132.99	508.8	-138.7	258.7	241.4	17.37	14.896		
5,100.0	5,016.6	5,046.6	5,037.5	14.2	6.9	134.67	513.3	-142.1	266.2	248.4	17.76	14.992		
5,130.0	5,045.7	5,076.2	5,067.0	14.3	7.0	135.42	515.3	-143.6	269.7	251.8	17.94	15.038		
5,200.0	5,113.4	5,145.2	5,135.8	14.6	7.0	137.08	520.2	-147.2	278.1	259.7	18.35	15.152		
5,225.0	5,137.6	5,169.9	5,160.3	14.7	7.1	137.65	521.9	-148.4	281.1	262.6	18.50	15.194		
5,300.0	5,210.2	5,243.8	5,234.0	14.9	7.2	139.29	527.1	-152.3	290.4	271.5	18.95	15.326		
5,320.0	5,229.6	5,263.6	5,253.7	15.0	7.2	139.71	528.5	-153.3	293.0	273.9	19.07	15.363		
5,400.0	5,307.1	5,342.5	5,332.3	15.3	7.3	141.32	534.0	-157.4	303.2	283.7	19.55	15.512		
5,415.0	5,321.6	5,357.3	5,347.0	15.3	7.3	141.61	535.0	-158.1	305.1	285.5	19.63	15.541		
5,500.0	5,403.9	5,441.1	5,430.5	15.6	7.4	143.19	540.9	-162.5	316.3	296.2	20.14	15.707		
5,510.0	5,413.6	5,451.0	5,440.4	15.7	7.4	143.37	541.6	-163.0	317.6	297.4	20.20	15.727		
5,600.0	5,500.7	5,539.7	5,528.8	16.0	7.5	144.91	547.8	-167.6	329.7	309.0	20.72	15.909		
5,605.0	5,505.5	5,544.6	5,533.7	16.0	7.5	144.99	548.2	-167.8	330.4	309.6	20.75	15.920		
5,695.0	5,592.6	5,633.4	5,622.1	16.3	7.6	146.41	554.4	-172.4	342.7	321.4	21.28	16.106		
5,700.0	5,597.5	5,638.3	5,627.0	16.3	7.6	146.50	554.8	-172.7	343.4	322.1	21.30	16.117		
5,795.0	5,689.9	5,732.3	5,720.6	16.7	7.7	147.87	561.3	-177.5	355.1	333.3	21.86	16.245		
5,800.0	5,694.8	5,737.3	5,725.6	16.7	7.7	147.93	561.7	-177.8	355.7	333.8	21.89	16.249		
5,890.0	5,783.0	5,826.7	5,814.7	17.2	7.8	148.87	568.0	-182.4	364.3	341.9	22.44	16.233		
5,900.0	5,792.8	5,836.6	5,824.6	17.2	7.8	148.96	568.7	-182.9	365.2	342.7	22.51	16.226		
5,985.0	5,876.6	5,921.4	5,909.0	17.6	7.9	149.56	574.6	-187.3	370.9	347.9	23.01	16.125		
6,000.0	5,891.4	5,936.3	5,923.9	17.7	7.9	149.64	575.7	-188.1	371.7	348.7	23.09	16.098		
6,080.0	5,970.7	6,016.3	6,003.5	18.0	8.0	149.96	581.3	-192.2	374.9	351.3	23.54	15.926		
6,100.0	5,990.6	6,036.2	6,023.4	18.1	8.1	150.01	582.7	-193.3	375.3	351.7	23.65	15.872		
6,175.0	6,065.2	6,111.2	6,098.1	18.5	8.2	150.08	587.9	-197.1	376.1	352.0	24.04	15.642		
6,200.0	6,090.2	6,136.2	6,123.0	18.6	8.2	150.07	589.7	-198.4	375.9	351.8	24.17	15.553		
6,270.0	6,160.0	6,206.2	6,192.7	18.9	8.3	149.94	594.6	-202.1	374.5	350.0	24.51	15.278		
6,300.0	6,190.0	6,236.2	6,222.6	19.0	8.3	149.84	596.7	-203.6	373.5	348.8	24.66	15.147		
6,365.0	6,254.9	6,301.1	6,287.3	19.3	8.4	149.52	601.2	-207.0	370.3	345.3	24.95	14.839		
6,400.0	6,289.9	6,336.0	6,322.0	19.5	8.4	149.30	603.7	-208.8	368.1	343.0	25.11	14.659		
6,420.1	6,310.0	6,356.0	6,341.9	19.5	8.4	113.01	605.1	-209.8	366.6	341.4	25.18	14.561		
6,460.0	6,349.9	6,395.8	6,381.6	19.6	8.5	112.73	607.9	-211.9	363.6	338.3	25.31	14.365		
6,500.0	6,389.9	6,434.1	6,419.8	19.7	8.5	112.46	610.5	-213.8	360.7	335.2	25.44	14.177		
6,555.0	6,444.9	6,486.1	6,471.6	19.9	8.6	112.13	613.8	-216.2	357.0	331.4	25.62	13.937		
6,600.0	6,489.9	6,528.8	6,514.2	20.0	8.6	111.88	616.1	-218.0	354.4	328.6	25.76	13.754		
6,650.0	6,539.9	6,576.2	6,561.5	20.2	8.7	111.63	618.5	-219.7	351.7	325.8	25.93	13.565		
6,700.0	6,589.9	6,623.7	6,608.9	20.3	8.8	111.41	620.5	-221.2	349.5	323.4	26.10	13.390		
6,745.0	6,634.9	6,666.4	6,651.6	20.4	8.8	111.23	622.1	-222.4	347.8	321.5	26.25	13.245		
6,800.0	6,689.9	6,718.7	6,703.9	20.6	8.9	111.06	623.7	-223.5	346.0	319.6	26.45	13.084		
6,840.0	6,729.9	6,756.7	6,741.9	20.7	8.9	110.96	624.6	-224.2	345.0	318.5	26.59	12.977		
6,900.0	6,789.9	6,813.8	6,799.0	20.9	9.0	110.86	625.5	-224.9	344.0	317.2	26.80	12.833		
6,935.0	6,824.9	6,847.2	6,832.3	21.0	9.0	110.82	625.9	-225.1	343.6	316.7	26.93	12.760		
7,000.0	6,889.9	6,909.2	6,894.3	21.2	9.1	110.79	626.1	-225.3	343.3	316.2	27.16	12.640		
7,030.0	6,919.9	6,939.2	6,924.3	21.3	9.1	110.79	626.1	-225.3	343.3	316.1	27.28	12.587		
7,093.1	6,983.0	7,002.3	6,987.4	21.4	9.2	110.79	626.1	-225.3	343.3	315.8	27.52	12.477		
7,100.0	6,989.9	7,009.2	6,994.3	21.5	9.2	-69.67	626.1	-225.3	343.3	315.8	27.53	12.470		
7,125.0	7,014.9	7,034.2	7,019.3	21.5	9.2	-69.83	626.1	-225.3	343.0	315.5	27.54	12.456		
7,150.0	7,039.9	7,059.1	7,044.3	21.5	9.3	-70.20	626.1	-225.3	342.4	314.8	27.53	12.435		
7,200.0	7,089.3	7,108.6	7,093.7	21.7	9.3	-71.54	626.1	-225.3	340.0	312.5	27.48	12.374		
7,220.0	7,108.9	7,128.2	7,113.3	21.8	9.4	-72.30	626.1	-225.3	338.7	311.3	27.43	12.347		
7,250.0	7,138.0	7,157.3	7,142.4	21.9	9.4	-73.67	626.1	-225.3	336.5	309.2	27.35	12.305		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9442-MWD+IFR1+FDIR												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
7,300.0	7,185.5	7,204.7	7,189.9	22.1	9.4	-76.54	626.1	-225.3	332.3	305.2	27.14	12.243	
7,315.0	7,199.4	7,218.7	7,203.8	22.1	9.5	-77.53	626.1	-225.3	331.0	303.9	27.07	12.229	
7,350.0	7,231.4	7,250.7	7,235.8	22.2	9.5	-80.05	626.1	-225.3	328.0	301.1	26.87	12.208 SF	
7,400.0	7,275.5	7,294.7	7,279.9	22.4	9.6	-84.04	626.1	-225.3	324.3	297.8	26.53	12.221	
7,410.0	7,284.0	7,303.3	7,288.4	22.4	9.6	-84.88	626.1	-225.3	323.7	297.2	26.47	12.232	
7,450.0	7,317.3	7,336.6	7,321.7	22.6	9.6	-88.31	626.1	-225.3	322.1	296.0	26.19	12.301	
7,469.6	7,333.0	7,352.3	7,337.4	22.6	9.6	-90.00	626.1	-225.3	321.9	295.9	26.06	12.354	
7,500.0	7,356.6	7,375.9	7,361.0	22.7	9.6	-92.59	626.1	-225.3	322.5	296.6	25.88	12.460	
7,505.0	7,360.4	7,379.6	7,364.8	22.7	9.7	-93.01	626.1	-225.3	322.7	296.9	25.86	12.481	
7,550.0	7,393.0	7,412.3	7,397.4	22.8	9.7	-96.61	626.1	-225.3	326.3	300.6	25.69	12.703	
7,600.0	7,426.4	7,445.6	7,430.8	22.9	9.7	-100.12	626.1	-225.3	334.5	308.8	25.67	13.028	
7,650.0	7,456.3	7,475.6	7,460.7	23.0	9.8	-102.89	626.1	-225.3	347.5	321.6	25.86	13.434	
7,695.0	7,480.2	7,499.4	7,484.6	23.1	9.8	-104.61	626.1	-225.3	363.5	337.3	26.20	13.877	
7,700.0	7,482.7	7,501.9	7,487.1	23.1	9.8	-104.75	626.1	-225.3	365.6	339.3	26.24	13.931	
7,750.0	7,505.2	7,524.5	7,509.6	23.1	9.8	-105.56	626.1	-225.3	388.7	361.9	26.75	14.531	
7,790.0	7,520.4	7,539.6	7,524.8	23.2	9.8	-105.36	626.1	-225.3	410.6	383.4	27.20	15.093	
7,800.0	7,523.8	7,543.0	7,528.2	23.2	9.8	-105.18	626.1	-225.3	416.5	389.1	27.32	15.245	
7,850.0	7,538.2	7,557.5	7,542.6	23.2	9.9	-103.47	626.1	-225.3	448.3	420.5	27.89	16.077	
7,885.0	7,545.8	7,565.1	7,550.2	23.3	9.9	-101.40	626.1	-225.3	472.8	444.5	28.26	16.727	
7,900.0	7,548.5	7,567.7	7,552.9	23.3	9.9	-100.28	626.1	-225.3	483.7	455.3	28.42	17.021	
7,950.0	7,554.4	7,573.6	7,558.8	23.3	9.9	-95.47	626.1	-225.3	521.8	492.9	28.89	18.063	
7,980.0	7,555.9	7,575.1	7,560.3	23.3	9.9	-91.79	626.1	-225.3	545.7	516.5	29.13	18.729	
7,994.3	7,556.0	7,575.3	7,560.4	23.3	9.9	-89.84	626.1	-225.3	557.2	528.0	29.25	19.054	
8,000.0	7,556.0	7,575.3	7,560.4	23.3	9.9	-89.83	626.1	-225.3	561.9	532.6	29.29	19.186	
8,075.0	7,555.8	7,575.1	7,560.2	23.3	9.9	-89.81	626.1	-225.3	624.9	595.1	29.79	20.978	
8,100.0	7,555.8	7,575.0	7,560.2	23.3	9.9	-89.80	626.1	-225.3	646.4	616.5	29.93	21.599	
8,170.0	7,555.6	7,574.9	7,560.0	23.3	9.9	-89.77	626.1	-225.3	708.0	677.7	30.28	23.383	
8,200.0	7,555.6	7,574.8	7,560.0	23.3	9.9	-89.76	626.1	-225.3	734.8	704.4	30.41	24.168	
8,265.0	7,555.5	7,574.7	7,559.9	23.3	9.9	-89.74	626.1	-225.3	793.8	763.1	30.65	25.897	
8,300.0	7,555.4	7,574.6	7,559.8	23.3	9.9	-89.73	626.1	-225.3	825.9	795.1	30.77	26.845	
8,360.0	7,555.3	7,574.5	7,559.7	23.4	9.9	-89.71	626.1	-225.3	881.5	850.5	30.94	28.488	
8,400.0	7,555.2	7,574.4	7,559.6	23.4	9.9	-89.69	626.1	-225.3	918.8	887.8	31.04	29.598	
8,455.0	7,555.1	7,574.3	7,559.5	23.4	9.9	-89.67	626.1	-225.3	970.5	939.3	31.17	31.136	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #803H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9563-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning	
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)				
0.0	0.0	4.4	4.4	3.0	3.0	-7.76	343.2	-46.7	346.4					
95.0	95.0	99.4	99.4	3.0	3.0	-7.76	343.2	-46.7	346.4	340.4	6.00	57.729		
100.0	100.0	104.4	104.4	3.0	3.0	-7.76	343.2	-46.7	346.4	340.4	6.00	57.728		
190.0	190.0	194.4	194.4	3.0	3.0	-7.76	343.2	-46.7	346.4	340.4	6.01	57.646		
200.0	200.0	204.4	204.4	3.0	3.0	-7.76	343.2	-46.7	346.4	340.4	6.01	57.632		
285.0	285.0	289.4	289.4	3.0	3.0	-7.76	343.2	-46.7	346.4	340.4	6.03	57.466		
300.0	300.0	304.4	304.4	3.0	3.0	-7.76	343.2	-46.7	346.4	340.4	6.03	57.428		
380.0	380.0	384.4	384.4	3.0	3.0	-7.76	343.2	-46.7	346.4	340.4	6.06	57.190		
400.0	400.0	404.4	404.4	3.0	3.0	-7.76	343.2	-46.7	346.4	340.3	6.06	57.120		
475.0	475.0	479.4	479.4	3.0	3.0	-7.76	343.2	-46.7	346.4	340.3	6.10	56.823		
500.0	500.0	504.4	504.4	3.1	3.1	-7.76	343.2	-46.7	346.4	340.3	6.11	56.711		
570.0	570.0	574.4	574.4	3.1	3.1	-7.76	343.2	-46.7	346.4	340.3	6.15	56.370		
600.0	600.0	604.4	604.4	3.1	3.1	-7.76	343.2	-46.7	346.4	340.2	6.16	56.210		
665.0	665.0	669.4	669.4	3.1	3.1	-7.76	343.2	-46.7	346.4	340.2	6.20	55.838		
700.0	700.0	704.4	704.4	3.1	3.1	-7.76	343.2	-46.7	346.4	340.2	6.23	55.623		
760.0	760.0	764.4	764.4	3.1	3.1	-7.76	343.2	-46.7	346.4	340.1	6.27	55.233		
800.0	800.0	804.4	804.4	3.2	3.2	-7.76	343.2	-46.7	346.4	340.1	6.30	54.959		
855.0	855.0	859.4	859.4	3.2	3.2	-7.76	343.2	-46.7	346.4	340.1	6.35	54.564		
900.0	900.0	904.4	904.4	3.2	3.2	-7.76	343.2	-46.7	346.4	340.0	6.39	54.227		
950.0	950.0	954.4	954.4	3.2	3.2	-7.76	343.2	-46.7	346.4	340.0	6.43	53.838		
1,000.0	1,000.0	1,004.4	1,004.4	3.2	3.2	-7.76	343.2	-46.7	346.4	339.9	6.48	53.435		
1,045.0	1,045.0	1,049.4	1,049.4	3.3	3.3	-7.76	343.2	-46.7	346.4	339.9	6.53	53.063		
1,100.0	1,100.0	1,104.4	1,104.4	3.3	3.3	-7.76	343.2	-46.7	346.4	339.8	6.59	52.594		
1,140.0	1,140.0	1,144.4	1,144.4	3.3	3.3	-7.76	343.2	-46.7	346.4	339.8	6.63	52.246		
1,200.0	1,200.0	1,204.4	1,204.4	3.4	3.4	-7.76	343.2	-46.7	346.4	339.7	6.70	51.713		
1,235.0	1,235.0	1,239.4	1,239.4	3.4	3.4	-7.76	343.2	-46.7	346.4	339.7	6.74	51.396		
1,300.0	1,300.0	1,304.4	1,304.4	3.4	3.4	-7.76	343.2	-46.7	346.4	339.6	6.82	50.799		
1,330.0	1,330.0	1,334.4	1,334.4	3.4	3.4	-7.76	343.2	-46.7	346.4	339.6	6.86	50.519		
1,400.0	1,400.0	1,404.4	1,404.4	3.5	3.5	-7.76	343.2	-46.7	346.4	339.5	6.95	49.861		
1,425.0	1,425.0	1,429.4	1,429.4	3.5	3.5	-7.76	343.2	-46.7	346.4	339.4	6.98	49.623		
1,500.0	1,500.0	1,504.4	1,504.4	3.5	3.5	-7.76	343.2	-46.7	346.4	339.3	7.08	48.905		
1,520.0	1,520.0	1,524.4	1,524.4	3.6	3.6	-7.76	343.2	-46.7	346.4	339.3	7.11	48.713		
1,600.0	1,600.0	1,604.4	1,604.4	3.6	3.6	-7.76	343.2	-46.7	346.4	339.2	7.23	47.940		
1,615.0	1,615.0	1,619.4	1,619.4	3.6	3.6	-7.76	343.2	-46.7	346.4	339.2	7.25	47.795		
1,700.0	1,700.0	1,704.4	1,704.4	3.7	3.7	-7.76	343.2	-46.7	346.4	339.0	7.38	46.970		
1,710.0	1,710.0	1,714.4	1,714.4	3.7	3.7	-7.76	343.2	-46.7	346.4	339.0	7.39	46.873		
1,800.0	1,800.0	1,804.4	1,804.4	3.8	3.8	-7.76	343.2	-46.7	346.4	338.9	7.53	46.002		
1,805.0	1,805.0	1,809.4	1,809.4	3.8	3.8	-7.76	343.2	-46.7	346.4	338.9	7.54	45.953		
1,900.0	1,900.0	1,904.4	1,904.4	3.9	3.9	-7.76	343.2	-46.7	346.4	338.7	7.69	45.038		
1,995.0	1,995.0	1,999.4	1,999.4	3.9	3.9	-7.76	343.2	-46.7	346.4	338.6	7.85	44.131		
2,000.0	2,000.0	2,004.2	2,004.2	3.9	3.9	-7.76	343.2	-46.7	346.4	338.6	7.86	44.089		
2,090.0	2,090.0	2,089.4	2,089.3	4.1	4.0	28.29	343.7	-48.1	345.9	337.7	8.11	42.665		
2,100.0	2,100.0	2,100.0	2,100.0	4.1	4.0	28.27	343.8	-48.4	345.7	337.6	8.14	42.485		
2,185.0	2,184.9	2,179.2	2,179.1	4.7	4.0	28.03	345.2	-52.0	343.9	335.2	8.72	39.451		
2,200.0	2,199.8	2,193.4	2,193.3	4.8	4.0	27.98	345.5	-52.9	343.5	334.7	8.83	38.910		
2,280.0	2,279.6	2,269.0	2,268.6	5.3	4.1	27.60	347.6	-58.6	340.6	331.3	9.34	36.476		
2,300.0	2,299.5	2,287.9	2,287.4	5.4	4.1	27.48	348.2	-60.3	339.8	330.3	9.47	35.875		
2,375.0	2,373.9	2,358.7	2,357.8	5.8	4.1	26.98	350.9	-67.8	336.0	326.1	9.93	33.848		
2,400.0	2,398.7	2,382.3	2,381.1	6.0	4.1	26.78	352.0	-70.7	334.6	324.5	10.08	33.182		
2,470.0	2,467.9	2,448.2	2,446.4	6.4	4.2	26.16	355.2	-79.6	330.1	319.6	10.50	31.453		
2,500.0	2,497.5	2,478.0	2,475.8	6.5	4.2	25.86	356.8	-84.0	327.9	317.3	10.68	30.711		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #803H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9563-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Distance		Minimum Separation (usft)	Separation Factor	Warning
							+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
2,565.0	2,561.3	2,542.6	2,539.6	6.9	4.2	25.28	360.3	-93.5	322.3	311.2	11.06	29.146	
2,600.0	2,595.6	2,577.4	2,574.0	7.0	4.3	25.01	362.1	-98.6	318.7	307.4	11.26	28.294	
2,660.0	2,654.2	2,636.9	2,632.8	7.3	4.3	24.61	365.3	-107.4	311.7	300.0	11.60	26.856	
2,700.0	2,693.1	2,676.5	2,671.9	7.5	4.3	24.40	367.4	-113.2	306.3	294.5	11.83	25.886	
2,725.1	2,717.4	2,701.4	2,696.4	7.6	4.3	24.28	368.8	-116.8	302.8	290.9	11.89	25.454	
2,755.0	2,746.3	2,730.9	2,725.6	7.6	4.4	24.11	370.3	-121.2	298.4	286.4	11.96	24.945	
2,800.0	2,789.9	2,775.4	2,769.6	7.7	4.4	23.85	372.7	-127.7	291.8	279.7	12.06	24.189	
2,850.0	2,838.3	2,824.9	2,818.4	7.8	4.4	23.54	375.4	-135.0	284.5	272.3	12.19	23.337	
2,900.0	2,886.7	2,874.3	2,867.2	7.9	4.5	23.21	378.0	-142.3	277.2	264.8	12.32	22.502	
2,945.0	2,930.3	2,918.8	2,911.2	7.9	4.5	22.91	380.4	-148.8	270.6	258.1	12.44	21.746	
3,000.0	2,983.5	2,973.2	2,964.9	8.1	4.5	22.51	383.3	-156.8	262.6	250.0	12.60	20.842	
3,040.0	3,022.2	3,012.7	3,003.9	8.1	4.6	22.21	385.4	-162.6	256.7	244.0	12.72	20.191	
3,100.0	3,080.3	3,072.0	3,062.5	8.3	4.6	21.73	388.6	-171.3	248.0	235.1	12.89	19.235	
3,135.0	3,114.2	3,106.7	3,096.7	8.3	4.6	21.43	390.4	-176.4	242.9	229.9	13.00	18.684	
3,200.0	3,177.2	3,170.9	3,160.2	8.5	4.7	20.85	393.9	-185.9	233.5	220.3	13.20	17.684	
3,230.0	3,206.2	3,200.6	3,189.5	8.6	4.7	20.56	395.5	-190.2	229.2	215.9	13.30	17.229	
3,300.0	3,274.0	3,269.8	3,257.9	8.7	4.8	19.85	399.2	-200.4	219.1	205.5	13.53	16.194	
3,325.0	3,298.2	3,294.5	3,282.3	8.8	4.8	19.58	400.5	-204.0	215.5	201.9	13.61	15.830	
3,400.0	3,370.8	3,368.7	3,355.5	9.0	4.9	18.71	404.5	-214.9	204.7	190.8	13.86	14.766	
3,420.0	3,390.1	3,388.4	3,375.0	9.0	4.9	18.46	405.5	-217.8	201.8	187.9	13.93	14.488	
3,500.0	3,467.6	3,467.5	3,453.2	9.2	4.9	17.40	409.7	-229.5	190.4	176.2	14.21	13.403	
3,515.0	3,482.1	3,482.4	3,467.8	9.3	5.0	17.19	410.5	-231.6	188.3	174.0	14.26	13.204	
3,600.0	3,564.4	3,566.4	3,550.8	9.5	5.0	15.88	415.0	-244.0	176.3	161.7	14.56	12.106	
3,610.0	3,574.1	3,576.3	3,560.6	9.5	5.0	15.71	415.6	-245.5	174.9	160.3	14.60	11.980	
3,700.0	3,661.2	3,665.3	3,648.5	9.8	5.1	14.10	420.3	-258.5	162.2	147.3	14.92	10.876	
3,705.0	3,666.1	3,670.2	3,653.4	9.8	5.1	14.00	420.6	-259.3	161.6	146.6	14.94	10.817	
3,800.0	3,758.0	3,764.2	3,746.1	10.1	5.2	11.98	425.6	-273.1	148.4	133.1	15.28	9.716	
3,895.0	3,850.0	3,858.1	3,838.9	10.3	5.3	9.57	430.6	-286.9	135.5	119.9	15.61	8.679	
3,900.0	3,854.8	3,863.0	3,843.8	10.3	5.3	9.43	430.9	-287.6	134.8	119.2	15.63	8.626	
3,990.0	3,942.0	3,952.0	3,931.7	10.6	5.4	6.67	435.7	-300.7	122.9	106.9	15.94	7.710	
4,000.0	3,951.7	3,961.9	3,941.5	10.6	5.4	6.33	436.2	-302.1	121.5	105.6	15.97	7.612	
4,085.0	4,034.0	4,046.0	4,024.5	10.9	5.5	3.11	440.7	-314.5	110.6	94.4	16.24	6.812	
4,100.0	4,048.5	4,060.8	4,039.1	10.9	5.5	2.48	441.5	-316.7	108.7	92.4	16.28	6.678	
4,180.0	4,125.9	4,139.9	4,117.2	11.2	5.6	-1.30	445.7	-328.3	98.9	82.4	16.50	5.994	
4,200.0	4,145.3	4,159.7	4,136.8	11.3	5.6	-2.37	446.8	-331.2	96.5	79.9	16.54	5.833	
4,275.0	4,217.9	4,233.8	4,210.0	11.5	5.7	-6.85	450.7	-342.1	87.9	71.2	16.69	5.267	
4,300.0	4,242.1	4,258.5	4,234.4	11.6	5.7	-8.54	452.1	-345.7	85.1	68.4	16.72	5.093	
4,370.0	4,309.9	4,327.8	4,302.8	11.8	5.8	-13.88	455.8	-355.9	77.9	61.2	16.77	4.648	
4,400.0	4,338.9	4,357.4	4,332.1	11.9	5.8	-16.46	457.4	-360.3	75.1	58.3	16.76	4.479	
4,465.0	4,401.8	4,421.7	4,395.6	12.1	5.9	-22.75	460.8	-369.7	69.5	52.8	16.70	4.161	
4,500.0	4,435.7	4,456.3	4,429.8	12.2	5.9	-26.54	462.7	-374.8	66.9	50.2	16.63	4.021	
4,560.0	4,493.8	4,515.6	4,488.3	12.4	6.0	-33.69	465.8	-383.5	63.1	46.7	16.47	3.833	
4,600.0	4,532.5	4,555.2	4,527.4	12.5	6.0	-38.88	467.9	-389.4	61.3	44.9	16.35	3.747	
4,655.0	4,585.8	4,609.6	4,581.1	12.7	6.1	-46.44	470.9	-397.3	59.6	43.4	16.19	3.680	
4,700.0	4,629.4	4,654.0	4,625.1	12.9	6.1	-52.85	473.2	-403.9	59.0	42.9	16.10	3.666 SF	
4,710.5	4,639.5	4,664.4	4,635.3	12.9	6.1	-54.36	473.8	-405.4	59.0	42.9	16.08	3.668 CC, ES	
4,750.0	4,677.8	4,703.5	4,673.9	13.0	6.2	-60.02	475.9	-411.2	59.3	43.2	16.07	3.689	
4,800.0	4,726.2	4,752.9	4,722.7	13.2	6.2	-67.01	478.5	-418.4	60.5	44.3	16.15	3.745	
4,845.0	4,769.7	4,797.4	4,766.7	13.4	6.3	-72.99	480.9	-425.0	62.3	46.0	16.32	3.820	
4,900.0	4,823.0	4,851.8	4,820.4	13.5	6.3	-79.77	483.8	-433.0	65.4	48.8	16.62	3.938	
4,940.0	4,861.7	4,891.3	4,859.4	13.7	6.4	-84.27	485.9	-438.8	68.3	51.4	16.89	4.041	

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ConocoPhillips

Anticollision Report

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Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #803H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 9563-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)	Semi Major Axis Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning	
5,000.0	4,919.8	4,950.7	4,918.0	13.9	6.4	-90.33	489.1	-447.5	73.2	55.8	17.35	4.218		
5,035.0	4,953.7	4,985.3	4,952.2	14.0	6.5	-93.49	491.0	-452.6	76.4	58.8	17.63	4.333		
5,100.0	5,016.6	5,049.5	5,015.7	14.2	6.6	-98.68	494.4	-462.0	82.9	64.8	18.16	4.565		
5,130.0	5,045.7	5,079.2	5,045.0	14.3	6.6	-100.80	496.0	-466.4	86.1	67.7	18.40	4.680		
5,200.0	5,113.4	5,148.4	5,113.4	14.6	6.7	-105.18	499.7	-476.6	94.0	75.1	18.96	4.960		
5,225.0	5,137.6	5,173.1	5,137.8	14.7	6.7	-106.57	501.0	-480.2	97.0	77.8	19.15	5.064		
5,300.0	5,210.2	5,247.3	5,211.0	14.9	6.8	-110.28	505.0	-491.1	106.1	86.4	19.70	5.384		
5,320.0	5,229.6	5,267.1	5,230.5	15.0	6.8	-111.16	506.0	-494.0	108.6	88.7	19.85	5.471		
5,400.0	5,307.1	5,346.2	5,308.7	15.3	6.9	-114.31	510.3	-505.6	118.8	98.4	20.41	5.823		
5,415.0	5,321.6	5,361.0	5,323.3	15.3	6.9	-114.84	511.1	-507.8	120.8	100.3	20.51	5.889		
5,500.0	5,403.9	5,445.0	5,406.3	15.6	7.0	-117.56	515.6	-520.2	132.0	110.9	21.06	6.267		
5,510.0	5,413.6	5,454.9	5,416.1	15.7	7.0	-117.84	516.1	-521.6	133.3	112.2	21.13	6.311		
5,600.0	5,500.7	5,543.9	5,504.0	16.0	7.1	-120.21	520.8	-534.7	145.5	123.8	21.69	6.709		
5,605.0	5,505.5	5,548.9	5,508.9	16.0	7.1	-120.33	521.1	-535.4	146.2	124.5	21.72	6.731		
5,695.0	5,592.6	5,637.8	5,596.7	16.3	7.2	-122.30	525.9	-548.5	158.6	136.4	22.26	7.125		
5,700.0	5,597.5	5,642.8	5,601.6	16.3	7.2	-122.42	526.1	-549.2	159.3	137.0	22.29	7.147		
5,795.0	5,689.9	5,736.9	5,694.6	16.7	7.4	-123.90	531.2	-563.1	171.6	148.8	22.82	7.520		
5,800.0	5,694.8	5,741.9	5,699.5	16.7	7.4	-123.95	531.4	-563.8	172.2	149.4	22.85	7.538		
5,890.0	5,783.0	5,831.3	5,787.8	17.2	7.5	-124.37	536.2	-576.9	182.2	158.9	23.36	7.801		
5,900.0	5,792.8	5,841.3	5,797.7	17.2	7.5	-124.37	536.8	-578.4	183.3	159.8	23.42	7.827		
5,985.0	5,876.6	5,925.9	5,881.2	17.6	7.6	-123.99	541.3	-590.8	191.1	167.3	23.85	8.013		
6,000.0	5,891.4	5,940.8	5,896.0	17.7	7.6	-123.86	542.1	-593.0	192.3	168.4	23.92	8.041		
6,080.0	5,970.7	6,020.5	5,974.7	18.0	7.7	-122.88	546.3	-604.8	198.3	174.0	24.28	8.165		
6,100.0	5,990.6	6,040.4	5,994.4	18.1	7.7	-122.55	547.4	-607.7	199.6	175.2	24.36	8.190		
6,175.0	6,065.2	6,115.1	6,068.1	18.5	7.8	-121.07	551.4	-618.7	203.9	179.2	24.66	8.268		
6,200.0	6,090.2	6,140.0	6,092.7	18.6	7.8	-120.49	552.7	-622.3	205.1	180.4	24.75	8.288		
6,270.0	6,160.0	6,209.6	6,161.4	18.9	7.9	-118.60	556.5	-632.5	208.1	183.2	24.97	8.336		
6,300.0	6,190.0	6,239.4	6,190.8	19.0	8.0	-117.68	558.1	-636.9	209.3	184.2	25.06	8.352		
6,365.0	6,254.9	6,303.8	6,254.5	19.3	8.1	-115.47	561.5	-646.4	211.5	186.2	25.22	8.384		
6,400.0	6,289.9	6,338.4	6,288.7	19.5	8.1	-114.16	563.4	-651.5	212.5	187.2	25.30	8.401		
6,420.1	6,310.0	6,358.2	6,308.3	19.5	8.1	-149.51	564.4	-654.4	213.1	187.8	25.33	8.414		
6,460.0	6,349.9	6,397.7	6,347.2	19.6	8.2	-147.88	566.5	-660.2	214.4	189.0	25.39	8.443		
6,500.0	6,389.9	6,437.2	6,386.2	19.7	8.2	-146.28	568.6	-666.0	215.8	190.3	25.45	8.478		
6,555.0	6,444.9	6,491.5	6,439.9	19.9	8.3	-144.11	571.5	-674.0	218.0	192.4	25.55	8.532		
6,600.0	6,489.9	6,535.9	6,483.8	20.0	8.3	-142.36	573.9	-680.5	220.1	194.4	25.64	8.583		
6,650.0	6,539.9	6,585.3	6,532.6	20.2	8.4	-140.46	576.6	-687.8	222.6	196.8	25.75	8.644		
6,700.0	6,589.9	6,634.7	6,581.3	20.3	8.5	-138.61	579.2	-695.0	225.3	199.5	25.86	8.712		
6,745.0	6,634.9	6,679.2	6,625.2	20.4	8.5	-136.98	581.6	-701.6	228.0	202.1	25.98	8.778		
6,800.0	6,689.9	6,733.5	6,678.9	20.6	8.6	-135.04	584.5	-709.6	231.6	205.4	26.12	8.864		
6,840.0	6,729.9	6,773.0	6,717.9	20.7	8.7	-133.67	586.6	-715.4	234.3	208.1	26.24	8.930		
6,900.0	6,789.9	6,832.3	6,776.5	20.9	8.7	-131.66	589.8	-724.1	238.7	212.2	26.42	9.034		
6,935.0	6,824.9	6,866.8	6,810.6	21.0	8.8	-130.53	591.6	-729.2	241.3	214.8	26.53	9.097		
7,000.0	6,889.9	6,931.0	6,874.0	21.2	8.9	-128.49	595.1	-738.6	246.5	219.8	26.74	9.218		
7,030.0	6,919.9	6,960.7	6,903.3	21.3	8.9	-127.58	596.6	-743.0	249.0	222.2	26.85	9.276		
7,093.1	6,983.0	7,023.0	6,964.8	21.4	9.0	-125.72	600.0	-752.1	254.5	227.4	27.07	9.401		
7,100.0	6,989.9	7,029.8	6,971.6	21.5	9.0	53.98	600.3	-753.1	255.1	228.0	27.08	9.419		
7,125.0	7,014.9	7,054.4	6,995.9	21.5	9.0	54.70	601.7	-756.7	256.9	229.8	27.10	9.478		
7,150.0	7,039.9	7,078.9	7,020.1	21.5	9.1	55.64	603.0	-760.3	258.1	231.0	27.11	9.519		
7,200.0	7,089.3	7,127.4	7,068.0	21.7	9.1	58.16	605.6	-767.5	259.0	231.9	27.16	9.536		
7,220.0	7,108.9	7,146.6	7,086.9	21.8	9.1	59.40	606.6	-770.3	258.9	231.8	27.18	9.528		
7,250.0	7,138.0	7,174.9	7,114.9	21.9	9.2	61.50	608.1	-774.5	258.4	231.2	27.19	9.505		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - *FLAMING SNAIL FED COM #803H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-Standard Keeper 104, 9563-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
7,300.0	7,185.5	7,221.0	7,160.4	22.1	9.2	65.59	610.6	-781.2	256.9	229.7	27.20	9.447	
7,315.0	7,199.4	7,234.5	7,173.7	22.1	9.3	66.94	611.3	-783.2	256.4	229.2	27.20	9.427	
7,350.0	7,231.4	7,265.3	7,204.2	22.2	9.3	70.30	612.9	-787.7	255.4	228.2	27.22	9.383	
7,393.3	7,269.7	7,302.1	7,240.5	22.4	9.4	74.71	614.9	-793.1	254.8	227.5	27.28	9.341	
7,400.0	7,275.5	7,307.6	7,246.0	22.4	9.4	75.41	615.2	-794.0	254.8	227.5	27.29	9.336	
7,410.0	7,284.0	7,315.8	7,254.0	22.4	9.4	76.46	615.6	-795.2	254.9	227.6	27.32	9.331	
7,450.0	7,317.3	7,347.5	7,285.3	22.6	9.4	80.66	617.3	-799.8	256.3	228.8	27.46	9.332	
7,500.0	7,356.6	7,384.7	7,322.1	22.7	9.5	85.69	619.3	-805.3	261.0	233.2	27.78	9.396	
7,505.0	7,360.4	7,388.2	7,325.6	22.7	9.5	86.17	619.5	-805.8	261.7	233.9	27.82	9.407	
7,550.0	7,393.0	7,418.9	7,355.9	22.8	9.5	90.19	621.2	-810.3	269.8	241.6	28.24	9.556	
7,600.0	7,426.4	7,449.8	7,386.4	22.9	9.6	93.87	622.8	-814.9	283.5	254.7	28.83	9.836	
7,650.0	7,456.3	7,477.3	7,413.6	23.0	9.6	96.52	624.3	-818.9	302.3	272.9	29.47	10.259	
7,695.0	7,480.2	7,498.9	7,434.9	23.1	9.6	97.90	625.4	-822.1	323.5	293.5	30.05	10.767	
7,700.0	7,482.7	7,501.1	7,437.1	23.1	9.6	97.99	625.6	-822.4	326.1	296.0	30.11	10.831	
7,750.0	7,505.2	7,521.1	7,456.8	23.1	9.7	98.14	626.6	-825.3	354.5	323.8	30.70	11.549	
7,790.0	7,520.4	7,534.1	7,469.7	23.2	9.7	97.23	627.3	-827.3	380.2	349.1	31.11	12.221	
7,800.0	7,523.8	7,537.0	7,472.5	23.2	9.7	96.85	627.5	-827.7	386.9	355.7	31.20	12.401	
7,850.0	7,538.2	7,548.7	7,484.1	23.2	9.7	94.00	628.1	-829.4	422.7	391.1	31.62	13.369	
7,885.0	7,545.8	7,554.5	7,489.8	23.3	9.7	91.03	628.4	-830.2	449.3	417.4	31.86	14.104	
7,900.0	7,548.5	7,556.3	7,491.6	23.3	9.7	89.50	628.5	-830.5	461.0	429.1	31.95	14.431	
7,950.0	7,554.4	7,559.5	7,494.8	23.3	9.7	83.34	628.7	-831.0	501.4	469.1	32.20	15.568	
7,980.0	7,555.9	7,559.4	7,494.7	23.3	9.7	78.92	628.7	-831.0	526.2	493.9	32.33	16.277	
7,994.3	7,556.0	7,558.8	7,494.1	23.3	9.7	76.67	628.6	-830.9	538.2	505.8	32.38	16.620	
8,000.0	7,556.0	7,558.5	7,493.8	23.3	9.7	76.61	628.6	-830.8	543.0	510.6	32.40	16.760	
8,075.0	7,555.8	7,554.4	7,489.8	23.3	9.7	75.81	628.4	-830.2	607.6	575.0	32.61	18.632	
8,100.0	7,555.8	7,553.1	7,488.4	23.3	9.7	75.54	628.3	-830.0	629.6	597.0	32.67	19.276	
8,170.0	7,555.6	7,549.3	7,484.7	23.3	9.7	74.81	628.1	-829.5	692.4	659.6	32.79	21.118	
8,200.0	7,555.6	7,547.7	7,483.0	23.3	9.7	74.49	628.1	-829.2	719.7	686.9	32.83	21.924	
8,265.0	7,555.5	7,544.1	7,479.6	23.3	9.7	73.80	627.9	-828.7	779.5	746.6	32.90	23.695	
8,300.0	7,555.4	7,542.2	7,477.7	23.3	9.7	73.44	627.8	-828.4	812.1	779.1	32.93	24.662	
8,360.0	7,555.3	7,539.0	7,474.5	23.4	9.7	72.81	627.6	-828.0	868.3	835.3	32.97	26.335	
8,400.0	7,555.2	7,536.8	7,472.3	23.4	9.7	72.39	627.5	-827.6	906.0	873.0	32.99	27.461	
8,455.0	7,555.1	7,533.8	7,469.4	23.4	9.7	71.82	627.3	-827.2	958.2	925.2	33.02	29.019	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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-MWD+IFR1+MS, 7123-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation	Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		Factor	
0.0	0.0	0.0	0.0	3.0	3.0	88.95	1.1	59.9	59.9	53.9		6.00	9.985
95.0	95.0	94.3	94.3	3.0	3.0	88.95	1.1	59.9	59.9	53.9		6.00	9.985
100.0	100.0	99.3	99.3	3.0	3.0	88.95	1.1	59.9	59.9	53.9		6.00	9.981
190.0	190.0	189.3	189.3	3.0	3.0	88.95	1.1	59.9	59.9	53.9		6.00	9.980
200.0	200.0	199.3	199.3	3.0	3.0	88.95	1.1	59.9	59.9	53.9		6.01	9.972
285.0	285.0	284.3	284.3	3.0	3.0	88.95	1.1	59.9	59.9	53.9			
300.0	300.0	299.3	299.3	3.0	3.0	88.95	1.1	59.9	59.9	53.9		6.01	9.970
380.0	380.0	379.3	379.3	3.0	3.0	88.95	1.1	59.9	59.9	53.9		6.02	9.958
400.0	400.0	399.3	399.3	3.0	3.0	88.95	1.1	59.9	59.9	53.9		6.02	9.955
475.0	475.0	474.3	474.3	3.0	3.0	88.95	1.1	59.9	59.9	53.9		6.03	9.940
500.0	500.0	499.3	499.3	3.1	3.1	88.95	1.1	59.9	59.9	53.9		6.03	9.934
570.0	570.0	569.3	569.3	3.1	3.1	88.95	1.1	59.9	59.9	53.9		6.04	9.917
600.0	600.0	599.3	599.3	3.1	3.1	88.95	1.1	59.9	59.9	53.9		6.05	9.909
665.0	665.0	664.3	664.3	3.1	3.1	88.95	1.1	59.9	59.9	53.9		6.06	9.889
700.0	700.0	699.3	699.3	3.1	3.1	88.95	1.1	59.9	59.9	53.8		6.07	9.878
760.0	760.0	759.3	759.3	3.1	3.1	88.95	1.1	59.9	59.9	53.8		6.08	9.857
800.0	800.0	799.3	799.3	3.2	3.2	88.95	1.1	59.9	59.9	53.8		6.09	9.842
855.0	855.0	854.3	854.3	3.2	3.2	88.95	1.1	59.9	59.9	53.8		6.10	9.820
900.0	900.0	899.3	899.3	3.2	3.2	88.95	1.1	59.9	59.9	53.8		6.11	9.802
950.0	950.0	949.3	949.3	3.2	3.2	88.95	1.1	59.9	59.9	53.8		6.13	9.780
1,000.0	1,000.0	999.3	999.3	3.2	3.2	88.95	1.1	59.9	59.9	53.8		6.14	9.757
1,045.0	1,045.0	1,044.3	1,044.3	3.3	3.3	88.95	1.1	59.9	59.9	53.8		6.15	9.735
1,100.0	1,100.0	1,099.3	1,099.3	3.3	3.3	88.95	1.1	59.9	59.9	53.7		6.17	9.707
1,140.0	1,140.0	1,139.3	1,139.3	3.3	3.3	88.95	1.1	59.9	59.9	53.7		6.18	9.686
1,200.0	1,200.0	1,199.3	1,199.3	3.4	3.4	88.95	1.1	59.9	59.9	53.7		6.21	9.654
1,235.0	1,235.0	1,234.3	1,234.3	3.4	3.4	88.95	1.1	59.9	59.9	53.7		6.22	9.634
1,300.0	1,300.0	1,299.3	1,299.3	3.4	3.4	88.95	1.1	59.9	59.9	53.7		6.24	9.596
1,330.0	1,330.0	1,329.3	1,329.3	3.4	3.4	88.95	1.1	59.9	59.9	53.7		6.25	9.578
1,400.0	1,400.0	1,399.3	1,399.3	3.5	3.5	88.95	1.1	59.9	59.9	53.6		6.28	9.535
1,425.0	1,425.0	1,424.3	1,424.3	3.5	3.5	88.95	1.1	59.9	59.9	53.6		6.29	9.519
1,500.0	1,500.0	1,499.3	1,499.3	3.5	3.5	88.95	1.1	59.9	59.9	53.6		6.33	9.471
1,520.0	1,520.0	1,519.3	1,519.3	3.6	3.6	88.95	1.1	59.9	59.9	53.6		6.33	9.457
1,600.0	1,600.0	1,599.3	1,599.3	3.6	3.6	88.95	1.1	59.9	59.9	53.5		6.37	9.403
1,615.0	1,615.0	1,614.3	1,614.3	3.6	3.6	88.95	1.1	59.9	59.9	53.5		6.38	9.392
1,700.0	1,700.0	1,699.3	1,699.3	3.7	3.7	88.95	1.1	59.9	59.9	53.5		6.42	9.332
1,710.0	1,710.0	1,709.3	1,709.3	3.7	3.7	88.95	1.1	59.9	59.9	53.5		6.42	9.325
1,800.0	1,800.0	1,799.3	1,799.3	3.8	3.8	88.95	1.1	59.9	59.9	53.4		6.47	9.259
1,805.0	1,805.0	1,804.3	1,804.3	3.8	3.8	88.95	1.1	59.9	59.9	53.4		6.47	9.255
1,900.0	1,900.0	1,899.3	1,899.3	3.9	3.9	88.95	1.1	59.9	59.9	53.4		6.52	9.182
1,995.0	1,995.0	1,994.3	1,994.3	3.9	3.9	88.95	1.1	59.9	59.9	53.3		6.58	9.108
2,000.0	2,000.0	1,999.3	1,999.3	3.9	3.9	88.95	1.1	59.9	59.9	53.3		6.58	9.104 CC, ES, SF
2,090.0	2,090.0	2,088.1	2,088.1	4.1	4.0	125.16	2.2	60.8	61.6	54.8		6.76	9.109
2,100.0	2,100.0	2,097.9	2,097.9	4.1	4.1	125.18	2.4	61.0	62.0	55.2		6.79	9.138
2,185.0	2,184.9	2,181.6	2,181.5	4.7	4.5	125.33	5.6	63.5	67.1	59.8		7.35	9.133
2,200.0	2,199.8	2,196.3	2,196.1	4.8	4.6	125.36	6.3	64.1	68.3	60.9		7.46	9.158
2,280.0	2,279.6	2,274.6	2,274.2	5.3	5.0	125.53	11.3	68.2	76.4	68.4		8.00	9.555
2,300.0	2,299.5	2,294.1	2,293.6	5.4	5.2	125.58	12.8	69.4	78.8	70.7		8.14	9.690
2,375.0	2,373.9	2,367.0	2,366.0	5.8	5.6	125.72	19.3	74.7	89.5	80.8		8.64	10.357
2,400.0	2,398.7	2,391.2	2,390.0	6.0	5.7	125.76	21.8	76.7	93.5	84.7		8.81	10.617
2,470.0	2,467.9	2,458.6	2,456.6	6.4	6.1	125.84	29.5	83.0	106.2	96.9		9.27	11.455
2,500.0	2,497.5	2,487.3	2,484.9	6.5	6.3	125.87	33.2	86.0	112.3	102.8		9.48	11.850

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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-MWD+IFR1+MS, 7123-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre		Between Centres (usft)	Between Ellipses (usft)	Factor	
							+N/-S (usft)	+E/-W (usft)				
2,565.0	2,561.3	2,549.1	2,545.7	6.9	6.6	125.90	41.8	93.0	126.7	116.7	9.91	12.784
2,600.0	2,595.6	2,582.1	2,578.1	7.0	6.8	125.90	46.8	97.1	135.1	124.9	10.14	13.321
2,660.0	2,654.2	2,638.3	2,633.0	7.3	7.1	125.88	56.1	104.6	150.7	140.1	10.54	14.296
2,700.0	2,693.1	2,675.5	2,669.2	7.5	7.2	125.85	62.6	109.9	161.8	151.0	10.81	14.979
2,725.1	2,717.4	2,700.1	2,693.2	7.6	7.4	125.83	67.2	113.6	169.2	158.2	10.97	15.424
2,755.0	2,746.3	2,727.2	2,719.4	7.6	7.4	125.93	72.2	117.7	178.1	167.0	11.10	16.034
2,800.0	2,789.9	2,770.1	2,761.1	7.7	7.6	126.08	80.3	124.3	191.4	180.1	11.32	16.904
2,850.0	2,838.3	2,817.9	2,807.4	7.8	7.7	126.23	89.3	131.5	206.3	194.7	11.56	17.842
2,900.0	2,886.7	2,865.6	2,853.7	7.9	7.8	126.35	98.2	138.8	221.1	209.4	11.78	18.776
2,945.0	2,930.3	2,908.6	2,895.4	7.9	7.8	126.45	106.3	145.4	234.5	222.5	11.98	19.576
3,000.0	2,983.5	2,961.1	2,946.4	8.1	7.9	126.55	116.2	153.4	250.8	238.6	12.23	20.504
3,040.0	3,022.2	2,999.3	2,983.5	8.1	8.0	126.62	123.4	159.2	262.7	250.3	12.42	21.146
3,100.0	3,080.3	3,056.6	3,039.0	8.3	8.1	126.72	134.1	168.0	280.6	267.8	12.72	22.059
3,135.0	3,114.2	3,090.0	3,071.5	8.3	8.2	126.76	140.4	173.1	290.9	278.1	12.89	22.565
3,200.0	3,177.2	3,152.1	3,131.7	8.5	8.3	126.85	152.0	182.5	310.3	297.0	13.23	23.457
3,230.0	3,206.2	3,180.7	3,159.5	8.6	8.4	126.88	157.4	186.9	319.2	305.8	13.38	23.847
3,300.0	3,274.0	3,247.5	3,224.3	8.7	8.5	126.95	170.0	197.1	340.0	326.2	13.76	24.711
3,325.0	3,298.2	3,271.4	3,247.5	8.8	8.6	126.98	174.5	200.7	347.4	333.5	13.89	25.004
3,400.0	3,370.8	3,343.0	3,317.0	9.0	8.8	127.04	187.9	211.7	369.7	355.4	14.31	25.838
3,420.0	3,390.1	3,362.1	3,335.5	9.0	8.8	127.06	191.5	214.6	375.6	361.2	14.42	26.048
3,500.0	3,467.6	3,438.5	3,409.6	9.2	9.0	127.12	205.8	226.2	399.4	384.5	14.88	26.849
3,515.0	3,482.1	3,452.8	3,423.5	9.3	9.0	127.13	208.5	228.4	403.9	388.9	14.96	26.992
3,600.0	3,564.4	3,534.0	3,502.3	9.5	9.2	127.19	223.8	240.8	429.1	413.7	15.46	27.759
3,610.0	3,574.1	3,543.5	3,511.5	9.5	9.3	127.19	225.6	242.3	432.1	416.6	15.52	27.845
3,700.0	3,661.2	3,629.5	3,594.9	9.8	9.5	127.24	241.7	255.4	458.8	442.8	16.06	28.579
3,705.0	3,666.1	3,634.2	3,599.5	9.8	9.5	127.25	242.6	256.1	460.3	444.2	16.09	28.617
3,800.0	3,758.0	3,724.9	3,687.5	10.1	9.8	127.29	259.6	269.9	488.6	471.9	16.66	29.318
3,895.0	3,850.0	3,815.7	3,775.6	10.3	10.0	127.34	276.7	283.8	516.8	499.5	17.25	29.954
3,900.0	3,854.8	3,820.4	3,780.2	10.3	10.0	127.34	277.6	284.5	518.3	501.0	17.28	29.986
3,990.0	3,942.0	3,906.4	3,863.6	10.6	10.3	127.37	293.7	297.6	545.0	527.2	17.85	30.533
4,000.0	3,951.7	3,915.9	3,872.8	10.6	10.3	127.38	295.5	299.1	548.0	530.1	17.91	30.591
4,085.0	4,034.0	3,997.1	3,951.6	10.9	10.5	127.41	310.7	311.5	573.3	554.8	18.46	31.061
4,100.0	4,048.5	4,011.4	3,965.5	10.9	10.6	127.41	313.4	313.6	577.7	559.2	18.55	31.140
4,180.0	4,125.9	4,087.8	4,039.6	11.2	10.8	127.44	327.8	325.3	601.5	582.4	19.07	31.543
4,200.0	4,145.3	4,106.9	4,058.1	11.3	10.9	127.45	331.3	328.2	607.4	588.2	19.20	31.640
4,275.0	4,217.9	4,178.5	4,127.6	11.5	11.1	127.47	344.8	339.1	629.7	610.0	19.69	31.985
4,300.0	4,242.1	4,202.4	4,150.8	11.6	11.2	127.47	349.3	342.8	637.2	617.3	19.85	32.095
4,370.0	4,309.9	4,269.2	4,215.6	11.8	11.4	127.49	361.8	353.0	658.0	637.6	20.31	32.390
4,400.0	4,338.9	4,297.8	4,243.4	11.9	11.4	127.50	367.2	357.3	666.9	646.4	20.51	32.511
4,465.0	4,401.8	4,359.9	4,303.6	12.1	11.6	127.52	378.9	366.8	686.2	665.2	20.94	32.762
4,500.0	4,435.7	4,393.3	4,336.1	12.2	11.7	127.53	385.1	371.9	696.6	675.4	21.18	32.892
4,560.0	4,493.8	4,450.6	4,391.6	12.4	11.9	127.54	395.9	380.7	714.4	692.8	21.58	33.105
4,600.0	4,532.5	4,488.8	4,428.7	12.5	12.0	127.55	403.1	386.5	726.3	704.5	21.85	33.241
4,655.0	4,585.8	4,541.3	4,479.7	12.7	12.2	127.56	412.9	394.5	742.7	720.4	22.22	33.421
4,700.0	4,629.4	4,584.3	4,521.3	12.9	12.4	127.57	421.0	401.0	756.0	733.5	22.53	33.563
4,750.0	4,677.8	4,632.0	4,567.7	13.0	12.5	127.58	430.0	408.3	770.9	748.0	22.87	33.714
4,800.0	4,726.2	4,679.8	4,614.0	13.2	12.7	127.59	438.9	415.6	785.8	762.5	23.21	33.859
4,845.0	4,769.7	4,722.7	4,655.7	13.4	12.8	127.60	447.0	422.2	799.1	775.6	23.51	33.984
4,900.0	4,823.0	4,775.2	4,706.6	13.5	13.0	127.61	456.9	430.2	815.5	791.6	23.89	34.132
4,940.0	4,861.7	4,813.4	4,743.7	13.7	13.1	127.61	464.0	436.0	827.4	803.2	24.17	34.236
5,000.0	4,919.8	4,870.7	4,799.3	13.9	13.3	127.62	474.8	444.8	845.2	820.6	24.58	34.385

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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-MWD+IFR1+MS, 7123-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Rule Assigned:		Distance		Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)	Factor	
5,035.0	4,953.7	4,904.1	4,831.7	14.0	13.4	127.63	481.1	449.9	855.6	830.8	24.82	34.469	
5,100.0	5,016.6	4,966.2	4,891.9	14.2	13.6	127.64	492.7	459.3	874.9	849.6	25.27	34.619	
5,130.0	5,045.7	4,994.8	4,919.7	14.3	13.7	127.64	498.1	463.7	883.8	858.3	25.48	34.686	
5,200.0	5,113.4	5,061.7	4,984.6	14.6	13.9	127.65	510.7	473.9	904.6	878.7	25.97	34.837	
5,225.0	5,137.6	5,085.6	5,007.7	14.7	14.0	127.65	515.1	477.5	912.1	885.9	26.14	34.889	
5,300.0	5,210.2	5,157.2	5,077.2	14.9	14.3	127.66	528.6	488.5	934.4	907.7	26.67	35.039	
5,320.0	5,229.6	5,176.3	5,095.7	15.0	14.3	127.67	532.2	491.4	940.3	913.5	26.81	35.078	
5,400.0	5,307.1	5,252.6	5,169.9	15.3	14.6	127.68	546.5	503.0	964.1	936.7	27.37	35.228	
5,415.0	5,321.6	5,267.0	5,183.8	15.3	14.6	127.68	549.2	505.2	968.5	941.1	27.47	35.255	
5,500.0	5,403.9	5,348.1	5,262.5	15.6	14.9	127.69	564.4	517.6	993.8	965.7	28.07	35.403	
5,510.0	5,413.6	5,357.7	5,271.8	15.7	14.9	127.69	566.2	519.0	996.8	968.6	28.14	35.420	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0														Offset Site Error: 0.0 usft	
Survey Program: Reference		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 7459-MWD+IFR1+MS								Rule Assigned:				Offset Well Error: 3.0 usft	
Offset		Semi Major Axis				Offset Wellbore Centre		Distance						Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor			
0.0	0.0	0.0	0.0	3.0	3.0	88.85	0.6	29.9	29.9						
95.0	95.0	94.6	94.6	3.0	3.0	88.85	0.6	29.9	29.9	23.9	6.00	4.984			
100.0	100.0	99.6	99.6	3.0	3.0	88.85	0.6	29.9	29.9	23.9	6.00	4.984			
190.0	190.0	189.6	189.6	3.0	3.0	88.85	0.6	29.9	29.9	23.9	6.00	4.982			
200.0	200.0	199.6	199.6	3.0	3.0	88.85	0.6	29.9	29.9	23.9	6.00	4.982			
285.0	285.0	284.6	284.6	3.0	3.0	88.85	0.6	29.9	29.9	23.9	6.01	4.978			
300.0	300.0	299.6	299.6	3.0	3.0	88.85	0.6	29.9	29.9	23.9	6.01	4.977			
380.0	380.0	379.6	379.6	3.0	3.0	88.85	0.6	29.9	29.9	23.9	6.02	4.971			
400.0	400.0	399.6	399.6	3.0	3.0	88.85	0.6	29.9	29.9	23.9	6.02	4.969			
475.0	475.0	474.6	474.6	3.0	3.0	88.85	0.6	29.9	29.9	23.9	6.03	4.962			
500.0	500.0	499.6	499.6	3.1	3.1	88.85	0.6	29.9	29.9	23.9	6.03	4.959			
570.0	570.0	569.6	569.6	3.1	3.1	88.85	0.6	29.9	29.9	23.9	6.04	4.950			
600.0	600.0	599.6	599.6	3.1	3.1	88.85	0.6	29.9	29.9	23.9	6.05	4.946			
665.0	665.0	664.6	664.6	3.1	3.1	88.85	0.6	29.9	29.9	23.8	6.06	4.936			
700.0	700.0	699.6	699.6	3.1	3.1	88.85	0.6	29.9	29.9	23.8	6.07	4.931			
760.0	760.0	759.6	759.6	3.1	3.1	88.85	0.6	29.9	29.9	23.8	6.08	4.920			
800.0	800.0	799.6	799.6	3.2	3.2	88.85	0.6	29.9	29.9	23.8	6.09	4.913			
855.0	855.0	854.6	854.6	3.2	3.2	88.85	0.6	29.9	29.9	23.8	6.10	4.902			
900.0	900.0	899.6	899.6	3.2	3.2	88.85	0.6	29.9	29.9	23.8	6.11	4.893			
950.0	950.0	949.6	949.6	3.2	3.2	88.85	0.6	29.9	29.9	23.8	6.13	4.882			
1,000.0	1,000.0	999.6	999.6	3.2	3.2	88.85	0.6	29.9	29.9	23.8	6.14	4.870			
1,045.0	1,045.0	1,044.6	1,044.6	3.3	3.3	88.85	0.6	29.9	29.9	23.8	6.15	4.859			
1,100.0	1,100.0	1,099.6	1,099.6	3.3	3.3	88.85	0.6	29.9	29.9	23.7	6.17	4.846			
1,140.0	1,140.0	1,139.6	1,139.6	3.3	3.3	88.85	0.6	29.9	29.9	23.7	6.19	4.835			
1,200.0	1,200.0	1,199.6	1,199.6	3.4	3.4	88.85	0.6	29.9	29.9	23.7	6.21	4.819			
1,235.0	1,235.0	1,234.6	1,234.6	3.4	3.4	88.85	0.6	29.9	29.9	23.7	6.22	4.809			
1,300.0	1,300.0	1,299.6	1,299.6	3.4	3.4	88.85	0.6	29.9	29.9	23.7	6.24	4.790			
1,330.0	1,330.0	1,329.6	1,329.6	3.4	3.4	88.85	0.6	29.9	29.9	23.7	6.25	4.781			
1,400.0	1,400.0	1,399.6	1,399.6	3.5	3.5	88.85	0.6	29.9	29.9	23.6	6.28	4.760			
1,425.0	1,425.0	1,424.6	1,424.6	3.5	3.5	88.85	0.6	29.9	29.9	23.6	6.29	4.752			
1,500.0	1,500.0	1,499.6	1,499.6	3.5	3.5	88.85	0.6	29.9	29.9	23.6	6.33	4.728			
1,520.0	1,520.0	1,519.6	1,519.6	3.6	3.6	88.85	0.6	29.9	29.9	23.6	6.33	4.721			
1,600.0	1,600.0	1,599.6	1,599.6	3.6	3.6	88.85	0.6	29.9	29.9	23.5	6.37	4.694			
1,615.0	1,615.0	1,614.6	1,614.6	3.6	3.6	88.85	0.6	29.9	29.9	23.5	6.38	4.688			
1,700.0	1,700.0	1,699.6	1,699.6	3.7	3.7	88.85	0.6	29.9	29.9	23.5	6.42	4.658			
1,710.0	1,710.0	1,709.6	1,709.6	3.7	3.7	88.85	0.6	29.9	29.9	23.5	6.42	4.655			
1,800.0	1,800.0	1,799.6	1,799.6	3.8	3.8	88.85	0.6	29.9	29.9	23.4	6.47	4.622			
1,805.0	1,805.0	1,804.6	1,804.6	3.8	3.8	88.85	0.6	29.9	29.9	23.4	6.47	4.620			
1,900.0	1,900.0	1,899.6	1,899.6	3.9	3.9	88.85	0.6	29.9	29.9	23.4	6.52	4.584			
1,995.0	1,995.0	1,994.6	1,994.6	3.9	3.9	88.85	0.6	29.9	29.9	23.3	6.58	4.546			
2,000.0	2,000.0	1,999.6	1,999.6	3.9	3.9	88.85	0.6	29.9	29.9	23.3	6.58	4.545 CC, ES			
2,090.0	2,090.0	2,089.6	2,089.6	4.1	4.1	124.53	2.0	29.9	30.8	24.1	6.65	4.621			
2,100.0	2,100.0	2,099.6	2,099.5	4.1	4.2	124.42	2.3	29.9	31.0	24.3	6.66	4.645			
2,185.0	2,184.9	2,184.5	2,184.4	4.7	4.7	123.14	6.5	29.9	33.5	26.6	6.87	4.875			
2,200.0	2,199.8	2,199.5	2,199.3	4.8	4.8	122.86	7.5	29.9	34.1	27.2	6.91	4.936			
2,280.0	2,279.6	2,279.3	2,278.8	5.3	5.3	121.23	14.2	30.0	38.2	31.0	7.16	5.331			
2,300.0	2,299.5	2,299.2	2,298.7	5.4	5.4	120.80	16.2	30.0	39.4	32.2	7.22	5.452			
2,375.0	2,373.9	2,373.9	2,372.8	5.8	5.8	119.20	25.0	30.0	44.8	37.3	7.51	5.963			
2,400.0	2,398.7	2,398.7	2,397.5	6.0	6.0	118.68	28.3	30.0	46.8	39.2	7.61	6.156			
2,470.0	2,467.9	2,468.3	2,466.2	6.4	6.4	117.30	38.8	30.1	53.4	45.4	7.92	6.738			
2,500.0	2,497.5	2,498.0	2,495.5	6.5	6.5	116.75	43.8	30.1	56.5	48.4	8.06	7.009			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM #520H - OWB - PWP0													Offset Site Error: 0.0 usft		
Survey Program: Reference		0-Standard Keeper 104, 2000-MWD+IFR1+MS, 7459-MWD+IFR1+MS						Rule Assigned:					Offset Well Error: 3.0 usft		
Offset		Semi Major Axis		Offset Wellbore Centre		Distance									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning		
2,565.0	2,561.3	2,562.3	2,558.7	6.9	6.8	115.64	55.6	30.2	63.9	55.5	8.35	7.653			
2,600.0	2,595.6	2,597.0	2,592.7	7.0	6.8	115.16	62.5	30.2	68.2	59.7	8.49	8.035			
2,660.0	2,654.2	2,656.5	2,651.0	7.3	6.9	115.08	74.4	30.3	76.1	67.4	8.74	8.710			
2,700.0	2,693.1	2,696.1	2,689.8	7.5	7.0	115.47	82.3	30.3	81.7	72.8	8.90	9.174			
2,725.1	2,717.4	2,720.9	2,714.1	7.6	7.0	115.85	87.2	30.3	85.3	76.3	9.01	9.465			
2,755.0	2,746.3	2,750.5	2,743.1	7.6	7.1	116.41	93.1	30.3	89.6	80.5	9.14	9.805			
2,800.0	2,789.9	2,795.0	2,786.7	7.7	7.1	117.16	102.0	30.4	96.2	86.9	9.35	10.293			
2,850.0	2,838.3	2,844.4	2,835.2	7.8	7.2	117.88	111.8	30.4	103.6	94.0	9.60	10.793			
2,900.0	2,886.7	2,893.9	2,883.6	7.9	7.3	118.50	121.7	30.5	110.9	101.1	9.85	11.263			
2,945.0	2,930.3	2,938.4	2,927.2	7.9	7.4	119.00	130.6	30.5	117.5	107.4	10.09	11.654			
3,000.0	2,983.5	2,992.8	2,980.5	8.1	7.5	119.53	141.4	30.6	125.6	115.3	10.38	12.103			
3,040.0	3,022.2	3,032.3	3,019.3	8.1	7.6	119.88	149.3	30.6	131.5	120.9	10.60	12.405			
3,100.0	3,080.3	3,091.7	3,077.4	8.3	7.7	120.35	161.2	30.7	140.4	129.4	10.94	12.831			
3,135.0	3,114.2	3,126.3	3,111.3	8.3	7.8	120.59	168.1	30.7	145.6	134.4	11.14	13.061			
3,200.0	3,177.2	3,190.6	3,174.3	8.5	8.0	121.01	180.9	30.8	155.2	143.6	11.52	13.464			
3,230.0	3,206.2	3,220.2	3,203.4	8.6	8.0	121.18	186.8	30.8	159.6	147.9	11.70	13.636			
3,300.0	3,274.0	3,289.4	3,271.2	8.7	8.2	121.55	200.6	30.9	170.0	157.8	12.13	14.015			
3,325.0	3,298.2	3,314.2	3,295.5	8.8	8.2	121.67	205.5	30.9	173.7	161.4	12.28	14.141			
3,400.0	3,370.8	3,388.3	3,368.1	9.0	8.4	122.01	220.3	31.0	184.8	172.0	12.75	14.496			
3,420.0	3,390.1	3,408.1	3,387.5	9.0	8.5	122.09	224.3	31.0	187.7	174.9	12.87	14.585			
3,500.0	3,467.6	3,487.2	3,465.0	9.2	8.7	122.40	240.0	31.1	199.6	186.2	13.38	14.918			
3,515.0	3,482.1	3,502.0	3,479.6	9.3	8.7	122.45	243.0	31.1	201.8	188.3	13.48	14.976			
3,600.0	3,564.4	3,586.1	3,561.9	9.5	9.0	122.73	259.8	31.2	214.4	200.4	14.02	15.289			
3,610.0	3,574.1	3,596.0	3,571.6	9.5	9.0	122.76	261.7	31.2	215.9	201.8	14.09	15.323			
3,700.0	3,661.2	3,685.0	3,658.8	9.8	9.2	123.02	279.5	31.3	229.2	214.6	14.68	15.617			
3,705.0	3,666.1	3,689.9	3,663.7	9.8	9.2	123.04	280.5	31.3	230.0	215.3	14.71	15.632			
3,800.0	3,758.0	3,783.9	3,755.7	10.1	9.5	123.28	299.2	31.3	244.1	228.7	15.34	15.907			
3,895.0	3,850.0	3,877.8	3,847.8	10.3	9.8	123.50	317.9	31.4	258.2	242.2	15.98	16.153			
3,900.0	3,854.8	3,882.8	3,852.6	10.3	9.8	123.51	318.9	31.4	258.9	242.9	16.02	16.165			
3,990.0	3,942.0	3,971.8	3,939.9	10.6	10.1	123.69	336.7	31.5	272.3	255.7	16.63	16.373			
4,000.0	3,951.7	3,981.7	3,949.5	10.6	10.1	123.71	338.7	31.5	273.8	257.1	16.70	16.395			
4,085.0	4,034.0	4,065.7	4,031.9	10.9	10.3	123.87	355.4	31.6	286.4	269.1	17.28	16.572			
4,100.0	4,048.5	4,080.5	4,046.4	10.9	10.4	123.89	358.4	31.6	288.6	271.2	17.38	16.602			
4,180.0	4,125.9	4,159.7	4,124.0	11.2	10.6	124.02	374.2	31.7	300.5	282.6	17.94	16.752			
4,200.0	4,145.3	4,179.4	4,143.3	11.3	10.7	124.06	378.1	31.7	303.5	285.4	18.08	16.788			
4,275.0	4,217.9	4,253.6	4,216.0	11.5	10.9	124.17	392.9	31.8	314.6	296.0	18.60	16.915			
4,300.0	4,242.1	4,278.3	4,240.2	11.6	11.0	124.20	397.8	31.8	318.3	299.5	18.77	16.955			
4,370.0	4,309.9	4,347.5	4,308.1	11.8	11.2	124.30	411.6	31.9	328.7	309.5	19.26	17.063			
4,400.0	4,338.9	4,377.2	4,337.1	11.9	11.3	124.34	417.5	31.9	333.2	313.7	19.48	17.107			
4,465.0	4,401.8	4,441.5	4,400.1	12.1	11.5	124.42	430.4	32.0	342.8	322.9	19.93	17.198			
4,500.0	4,435.7	4,476.1	4,434.0	12.2	11.6	124.46	437.3	32.0	348.0	327.8	20.18	17.245			
4,560.0	4,493.8	4,535.4	4,492.2	12.4	11.8	124.53	449.1	32.1	356.9	336.3	20.61	17.321			
4,600.0	4,532.5	4,575.0	4,530.9	12.5	11.9	124.58	457.0	32.1	362.9	342.0	20.89	17.370			
4,655.0	4,585.8	4,629.4	4,584.2	12.7	12.1	124.64	467.8	32.2	371.1	349.8	21.28	17.435			
4,700.0	4,629.4	4,673.9	4,627.8	12.9	12.3	124.68	476.7	32.2	377.7	356.1	21.60	17.485			
4,750.0	4,677.8	4,723.3	4,676.3	13.0	12.4	124.73	486.6	32.3	385.2	363.2	21.96	17.539			
4,800.0	4,726.2	4,772.8	4,724.7	13.2	12.6	124.78	496.4	32.3	392.6	370.3	22.32	17.590			
4,845.0	4,769.7	4,817.3	4,768.4	13.4	12.7	124.82	505.3	32.3	399.3	376.6	22.64	17.634			
4,900.0	4,823.0	4,871.6	4,821.6	13.5	12.9	124.87	516.2	32.4	407.5	384.4	23.04	17.686			
4,940.0	4,861.7	4,911.2	4,860.4	13.7	13.1	124.90	524.0	32.4	413.4	390.1	23.33	17.723			
5,000.0	4,919.8	4,970.5	4,918.5	13.9	13.3	124.95	535.9	32.5	422.3	398.6	23.76	17.775			

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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-MWD+IFR1+MS, 7459-MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor		
5,035.0	4,953.7	5,005.1	4,952.5	14.0	13.4	124.98	542.8	32.5	427.5	403.5	24.01	17.804		
5,100.0	5,016.6	5,069.4	5,015.5	14.2	13.6	125.03	555.6	32.6	437.2	412.7	24.48	17.857		
5,130.0	5,045.7	5,099.1	5,044.5	14.3	13.7	125.05	561.5	32.6	441.6	416.9	24.70	17.880		
5,200.0	5,113.4	5,168.3	5,112.4	14.6	13.9	125.10	575.3	32.7	452.1	426.8	25.21	17.933		
5,225.0	5,137.6	5,193.0	5,136.6	14.7	14.0	125.12	580.3	32.7	455.8	430.4	25.39	17.951		
5,300.0	5,210.2	5,267.2	5,209.3	14.9	14.3	125.17	595.0	32.8	466.9	441.0	25.94	18.003		
5,320.0	5,229.6	5,287.0	5,228.6	15.0	14.3	125.18	599.0	32.8	469.9	443.8	26.08	18.016		
5,400.0	5,307.1	5,366.1	5,306.2	15.3	14.6	125.23	614.8	32.9	481.8	455.1	26.66	18.068		
5,415.0	5,321.6	5,380.9	5,320.7	15.3	14.6	125.24	617.7	32.9	484.0	457.2	26.77	18.077		
5,500.0	5,403.9	5,465.0	5,403.1	15.6	14.9	125.29	634.5	33.0	496.6	469.3	27.40	18.129		
5,510.0	5,413.6	5,474.9	5,412.7	15.7	15.0	125.30	636.5	33.0	498.1	470.7	27.47	18.134		
5,600.0	5,500.7	5,563.9	5,500.0	16.0	15.3	125.35	654.2	33.1	511.5	483.4	28.13	18.185		
5,605.0	5,505.5	5,568.8	5,504.8	16.0	15.3	125.35	655.2	33.1	512.3	484.1	28.16	18.188		
5,695.0	5,592.6	5,657.8	5,592.0	16.3	15.6	125.40	672.9	33.2	525.6	496.8	28.82	18.235		
5,700.0	5,597.5	5,662.7	5,596.9	16.3	15.6	125.42	673.9	33.2	526.4	497.5	28.86	18.238		
5,795.0	5,689.9	5,756.8	5,689.0	16.7	16.0	125.53	692.7	33.3	539.5	509.9	29.56	18.249		
5,800.0	5,694.8	5,761.8	5,693.9	16.7	16.0	125.53	693.7	33.3	540.1	510.5	29.60	18.248		
5,890.0	5,783.0	5,851.1	5,781.5	17.2	16.3	125.36	711.4	33.3	550.8	520.5	30.27	18.197		
5,900.0	5,792.8	5,861.1	5,791.3	17.2	16.3	125.34	713.2	33.4	551.9	521.6	30.34	18.188		
5,985.0	5,876.6	5,945.8	5,874.8	17.6	16.7	125.15	727.8	33.4	560.3	529.4	30.97	18.094		
6,000.0	5,891.4	5,960.8	5,889.6	17.7	16.7	125.12	730.1	33.4	561.7	530.6	31.08	18.072		
6,080.0	5,970.7	6,040.8	5,968.8	18.0	17.1	124.98	741.2	33.5	568.0	536.3	31.66	17.941		
6,100.0	5,990.6	6,060.9	5,988.7	18.1	17.2	124.95	743.6	33.5	569.4	537.6	31.80	17.903		
6,175.0	6,065.2	6,136.1	6,063.5	18.5	17.6	124.84	751.4	33.5	573.8	541.5	32.34	17.744		
6,200.0	6,090.2	6,161.2	6,088.5	18.6	17.7	124.81	753.6	33.6	575.0	542.5	32.52	17.684		
6,270.0	6,160.0	6,231.5	6,158.6	18.9	18.0	124.74	758.6	33.6	577.7	544.7	33.00	17.505		
6,300.0	6,190.0	6,261.7	6,188.8	19.0	18.1	124.71	760.2	33.6	578.6	545.4	33.21	17.421		
6,365.0	6,254.9	6,327.1	6,254.1	19.3	18.4	124.66	762.5	33.6	579.8	546.1	33.66	17.227		
6,400.0	6,289.9	6,362.3	6,289.3	19.5	18.6	124.63	763.2	33.6	580.1	546.2	33.89	17.115		
6,420.1	6,310.0	6,382.5	6,309.5	19.5	18.7	88.48	763.4	33.6	580.1	546.1	34.02	17.050		
6,460.0	6,349.9	6,422.5	6,349.5	19.6	18.8	88.48	763.4	33.6	580.1	545.8	34.28	16.923		
6,500.0	6,389.9	6,462.5	6,389.5	19.7	18.9	88.48	763.4	33.6	580.1	545.6	34.53	16.798		
6,555.0	6,444.9	6,517.5	6,444.5	19.9	19.1	88.48	763.4	33.6	580.1	545.2	34.89	16.627		
6,600.0	6,489.9	6,562.5	6,489.5	20.0	19.2	88.48	763.4	33.6	580.1	544.9	35.18	16.488		
6,650.0	6,539.9	6,612.5	6,539.5	20.2	19.4	88.48	763.4	33.6	580.1	544.6	35.51	16.335		
6,700.0	6,589.9	6,662.5	6,589.5	20.3	19.6	88.48	763.4	33.6	580.1	544.3	35.84	16.185		
6,745.0	6,634.9	6,707.5	6,634.5	20.4	19.7	88.48	763.4	33.6	580.1	544.0	36.14	16.052		
6,800.0	6,689.9	6,762.5	6,689.5	20.6	19.9	88.48	763.4	33.6	580.1	543.6	36.50	15.893		
6,840.0	6,729.9	6,802.5	6,729.5	20.7	20.0	88.48	763.4	33.6	580.1	543.3	36.77	15.778		
6,900.0	6,789.9	6,862.5	6,789.5	20.9	20.2	88.48	763.4	33.6	580.1	542.9	37.16	15.610		
6,935.0	6,824.9	6,897.5	6,824.5	21.0	20.3	88.48	763.4	33.6	580.1	542.7	37.40	15.513		
7,000.0	6,889.9	6,962.5	6,889.5	21.2	20.5	88.48	763.4	33.6	580.1	542.3	37.83	15.336		
7,030.0	6,919.9	6,992.5	6,919.5	21.3	20.6	88.48	763.4	33.6	580.1	542.1	38.03	15.255		
7,093.1	6,983.0	7,055.6	6,982.6	21.4	20.8	88.48	763.4	33.6	580.1	541.7	38.45	15.089		
7,100.0	6,989.9	7,062.5	6,989.5	21.5	20.8	-91.98	763.4	33.6	580.1	541.6	38.48	15.076		
7,125.0	7,014.9	7,087.5	7,014.5	21.5	20.9	-92.06	763.4	33.6	580.1	541.6	38.56	15.043		
7,150.0	7,039.9	7,112.4	7,039.5	21.5	21.0	-92.25	763.4	33.6	580.2	541.6	38.65	15.012		
7,200.0	7,089.3	7,161.9	7,088.9	21.7	21.1	-92.91	763.4	33.6	580.5	541.7	38.82	14.953		
7,220.0	7,108.9	7,181.5	7,108.5	21.8	21.2	-93.28	763.4	33.6	580.8	541.9	38.89	14.932		
7,250.0	7,138.0	7,210.6	7,137.6	21.9	21.3	-93.93	763.4	33.6	581.2	542.2	39.00	14.903		
7,300.0	7,185.5	7,258.0	7,185.1	22.1	21.4	-95.25	763.4	33.6	582.6	543.4	39.18	14.867		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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-MWD+IFR1+MS, 7459-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
7,315.0	7,199.4	7,272.0	7,199.0	22.1	21.5	-95.70	763.4	33.6	583.1	543.9	39.24	14.860	
7,350.0	7,231.4	7,304.0	7,231.0	22.2	21.6	-96.80	763.4	33.6	584.8	545.4	39.38	14.850	
7,400.0	7,275.5	7,348.0	7,275.1	22.4	21.7	-98.46	763.4	33.6	588.4	548.8	39.59	14.860	
7,410.0	7,284.0	7,356.6	7,283.6	22.4	21.7	-98.80	763.4	33.6	589.3	549.6	39.64	14.866	
7,450.0	7,317.3	7,389.9	7,316.9	22.6	21.8	-100.14	763.4	33.6	593.6	553.8	39.83	14.904	
7,500.0	7,356.6	7,429.2	7,356.2	22.7	21.9	-101.72	763.4	33.6	601.0	561.0	40.05	15.009	
7,505.0	7,360.4	7,432.9	7,360.0	22.7	21.9	-101.86	763.4	33.6	601.9	561.9	40.07	15.023	
7,550.0	7,393.0	7,468.9	7,396.0	22.8	22.0	-103.29	763.3	33.6	610.9	570.7	40.27	15.172	
7,600.0	7,426.4	7,525.4	7,452.3	22.9	22.1	-105.76	759.6	33.6	622.9	582.4	40.45	15.398	
7,650.0	7,456.3	7,588.9	7,514.8	23.0	22.3	-108.38	748.7	33.5	636.2	595.7	40.59	15.676	
7,695.0	7,480.2	7,654.0	7,577.3	23.1	22.5	-110.90	730.6	33.3	649.2	608.6	40.60	15.988	
7,700.0	7,482.7	7,661.8	7,584.6	23.1	22.5	-111.20	727.9	33.3	650.6	610.0	40.60	16.027	
7,750.0	7,505.2	7,747.2	7,662.2	23.1	22.8	-114.26	692.4	33.0	665.4	625.0	40.40	16.472	
7,790.0	7,520.4	7,827.3	7,729.5	23.2	23.0	-116.86	649.0	32.7	677.0	636.9	40.04	16.907	
7,800.0	7,523.8	7,849.3	7,746.8	23.2	23.1	-117.52	635.6	32.6	679.7	639.8	39.92	17.027	
7,850.0	7,538.2	7,972.0	7,833.2	23.2	23.3	-120.74	548.7	31.9	692.4	653.2	39.19	17.668	
7,885.0	7,545.8	8,071.6	7,888.4	23.3	23.5	-122.70	466.0	31.2	699.4	660.7	38.64	18.100	
7,900.0	7,548.5	8,088.2	7,895.8	23.3	23.5	-122.80	451.1	31.1	701.7	663.1	38.65	18.154	
7,950.0	7,554.4	8,280.9	7,953.7	23.3	23.7	-124.78	268.3	29.7	706.3	668.1	38.21	18.484	
7,980.0	7,555.9	8,365.7	7,959.0	23.3	23.7	-124.83	183.7	29.0	706.4	668.0	38.40	18.395	
7,992.8	7,556.0	8,378.5	7,959.0	23.3	23.7	-124.83	170.9	28.9	706.3	667.9	38.44	18.374	
7,994.3	7,556.0	8,380.0	7,959.0	23.3	23.7	-124.83	169.5	28.9	706.3	667.9	38.44	18.372	
8,000.0	7,556.0	8,385.7	7,959.0	23.3	23.7	-124.83	163.7	28.8	706.3	667.9	38.45	18.368	
8,075.0	7,555.8	8,460.7	7,959.1	23.3	23.7	-124.84	88.7	28.2	706.4	667.8	38.62	18.290	
8,100.0	7,555.8	8,485.7	7,959.1	23.3	23.7	-124.85	63.7	28.0	706.5	667.8	38.68	18.264	
8,170.0	7,555.6	8,555.7	7,959.1	23.3	23.7	-124.86	-6.3	27.5	706.6	667.7	38.89	18.167	
8,200.0	7,555.6	8,585.7	7,959.1	23.3	23.7	-124.87	-36.3	27.2	706.6	667.6	38.99	18.124	
8,265.0	7,555.5	8,650.7	7,959.2	23.3	23.7	-124.88	-101.3	26.7	706.7	667.5	39.22	18.018	
8,300.0	7,555.4	8,685.7	7,959.2	23.3	23.7	-124.88	-136.3	26.5	706.7	667.4	39.35	17.960	
8,360.0	7,555.3	8,745.7	7,959.2	23.4	23.7	-124.89	-196.3	26.0	706.8	667.2	39.60	17.848	
8,400.0	7,555.2	8,785.7	7,959.2	23.4	23.7	-124.90	-236.3	25.7	706.9	667.1	39.77	17.773	
8,455.0	7,555.1	8,840.7	7,959.2	23.4	23.7	-124.91	-291.2	25.2	707.0	666.9	40.03	17.659	
8,500.0	7,555.0	8,885.7	7,959.3	23.4	23.7	-124.92	-336.2	24.9	707.0	666.8	40.25	17.566	
8,550.0	7,554.9	8,935.7	7,959.3	23.4	23.7	-124.92	-386.2	24.5	707.1	666.6	40.51	17.454	
8,600.0	7,554.8	8,985.7	7,959.3	23.4	23.8	-124.93	-436.2	24.1	707.2	666.4	40.78	17.342	
8,645.0	7,554.7	9,030.7	7,959.3	23.4	23.8	-124.94	-481.2	23.7	707.2	666.2	41.04	17.234	
8,700.0	7,554.6	9,085.7	7,959.4	23.5	23.8	-124.95	-536.2	23.3	707.3	666.0	41.36	17.102	
8,740.0	7,554.5	9,125.7	7,959.4	23.5	23.8	-124.96	-576.2	23.0	707.4	665.8	41.61	17.001	
8,800.0	7,554.4	9,185.7	7,959.4	23.5	23.8	-124.97	-636.2	22.5	707.5	665.5	41.99	16.849	
8,835.0	7,554.3	9,220.7	7,959.4	23.5	23.8	-124.97	-671.2	22.2	707.5	665.3	42.22	16.757	
8,900.0	7,554.2	9,285.7	7,959.5	23.6	23.9	-124.98	-736.2	21.7	707.6	665.0	42.66	16.586	
8,930.0	7,554.1	9,315.7	7,959.5	23.6	23.9	-124.99	-766.2	21.4	707.7	664.8	42.88	16.504	
9,000.0	7,554.0	9,385.7	7,959.5	23.6	23.9	-125.00	-836.2	20.9	707.8	664.4	43.38	16.314	
9,025.0	7,553.9	9,410.7	7,959.5	23.7	23.9	-125.00	-861.2	20.7	707.8	664.2	43.57	16.245	
9,100.0	7,553.8	9,485.7	7,959.6	23.7	24.0	-125.02	-936.2	20.1	707.9	663.8	44.14	16.036	
9,120.0	7,553.7	9,505.7	7,959.6	23.7	24.0	-125.02	-956.2	19.9	707.9	663.6	44.30	15.980	
9,200.0	7,553.6	9,585.7	7,959.6	23.8	24.1	-125.03	-1,036.2	19.3	708.1	663.1	44.95	15.753	
9,215.0	7,553.5	9,600.7	7,959.6	23.8	24.1	-125.04	-1,051.2	19.2	708.1	663.0	45.07	15.711	
9,300.0	7,553.4	9,685.7	7,959.7	24.0	24.2	-125.05	-1,136.2	18.5	708.2	662.4	45.79	15.468	
9,310.0	7,553.3	9,695.7	7,959.7	24.0	24.2	-125.05	-1,146.2	18.4	708.2	662.3	45.87	15.439	
9,400.0	7,553.2	9,785.7	7,959.7	24.1	24.4	-125.07	-1,236.2	17.7	708.4	661.7	46.66	15.181	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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-MWD+IFR1+MS, 7459-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation Factor		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	
9,405.0	7,553.2	9,790.7	7,959.7	24.2	24.4	-125.07	-1,241.2	17.7	708.4	661.7	46.71	15.166	
9,500.0	7,553.0	9,885.7	7,959.8	24.4	24.7	-125.08	-1,336.2	16.9	708.5	660.9	47.57	14.893	
9,595.0	7,552.8	9,980.7	7,959.8	24.6	25.0	-125.10	-1,431.2	16.2	708.6	660.2	48.47	14.622	
9,600.0	7,552.8	9,985.7	7,959.8	24.6	25.0	-125.10	-1,436.2	16.1	708.6	660.1	48.51	14.608	
9,690.0	7,552.6	10,075.7	7,959.9	24.9	25.3	-125.12	-1,526.2	15.4	708.8	659.4	49.39	14.352	
9,700.0	7,552.6	10,085.7	7,959.9	25.0	25.4	-125.12	-1,536.2	15.3	708.8	659.3	49.48	14.324	
9,785.0	7,552.4	10,170.7	7,959.9	25.3	25.7	-125.13	-1,621.2	14.6	708.9	658.6	50.33	14.084	
9,800.0	7,552.4	10,185.7	7,959.9	25.3	25.8	-125.13	-1,636.2	14.5	708.9	658.5	50.48	14.043	
9,880.0	7,552.2	10,265.7	7,960.0	25.6	26.1	-125.15	-1,716.2	13.9	709.1	657.7	51.30	13.820	
9,900.0	7,552.2	10,285.7	7,960.0	25.7	26.2	-125.15	-1,736.2	13.7	709.1	657.6	51.51	13.766	
9,975.0	7,552.0	10,360.7	7,960.0	26.1	26.5	-125.16	-1,811.2	13.1	709.2	656.9	52.30	13.560	
10,000.0	7,552.0	10,385.7	7,960.1	26.2	26.7	-125.17	-1,836.2	12.9	709.2	656.7	52.56	13.493	
10,070.0	7,551.8	10,455.7	7,960.1	26.5	27.0	-125.18	-1,906.2	12.4	709.3	656.0	53.31	13.305	
10,100.0	7,551.8	10,485.7	7,960.1	26.6	27.1	-125.18	-1,936.2	12.1	709.4	655.7	53.64	13.225	
10,165.0	7,551.6	10,550.7	7,960.1	26.9	27.5	-125.20	-2,001.2	11.6	709.5	655.1	54.35	13.054	
10,200.0	7,551.6	10,585.7	7,960.2	27.1	27.6	-125.20	-2,036.2	11.4	709.5	654.8	54.74	12.963	
10,260.0	7,551.4	10,645.7	7,960.2	27.4	27.9	-125.21	-2,096.2	10.9	709.6	654.2	55.41	12.807	
10,300.0	7,551.4	10,685.7	7,960.2	27.6	28.1	-125.22	-2,136.2	10.6	709.7	653.8	55.85	12.706	
10,355.0	7,551.2	10,740.7	7,960.2	27.9	28.4	-125.23	-2,191.2	10.1	709.7	653.3	56.48	12.566	
10,400.0	7,551.2	10,785.7	7,960.3	28.1	28.7	-125.23	-2,236.2	9.8	709.8	652.8	56.99	12.454	
10,450.0	7,551.1	10,835.7	7,960.3	28.4	28.9	-125.24	-2,286.2	9.4	709.9	652.3	57.57	12.331	
10,500.0	7,551.0	10,885.7	7,960.3	28.7	29.2	-125.25	-2,336.2	9.0	710.0	651.8	58.15	12.209	
10,545.0	7,550.9	10,930.7	7,960.3	28.9	29.4	-125.26	-2,381.2	8.6	710.0	651.3	58.68	12.100	
10,600.0	7,550.7	10,985.7	7,960.4	29.2	29.7	-125.27	-2,436.2	8.2	710.1	650.8	59.33	11.970	
10,640.0	7,550.7	11,025.7	7,960.4	29.4	30.0	-125.27	-2,476.2	7.9	710.2	650.4	59.80	11.875	
10,700.0	7,550.5	11,085.7	7,960.4	29.8	30.3	-125.28	-2,536.2	7.4	710.3	649.7	60.52	11.736	
10,735.0	7,550.5	11,120.7	7,960.4	30.0	30.5	-125.29	-2,571.2	7.1	710.3	649.4	60.94	11.656	
10,800.0	7,550.3	11,185.7	7,960.5	30.3	30.9	-125.30	-2,636.2	6.6	710.4	648.7	61.72	11.509	
10,830.0	7,550.3	11,215.7	7,960.5	30.5	31.0	-125.31	-2,666.2	6.3	710.4	648.4	62.09	11.442	
10,900.0	7,550.1	11,285.7	7,960.5	30.9	31.4	-125.32	-2,736.2	5.8	710.5	647.6	62.95	11.288	
10,925.0	7,550.1	11,310.7	7,960.5	31.1	31.6	-125.32	-2,761.2	5.6	710.6	647.3	63.25	11.234	
11,000.0	7,549.9	11,385.7	7,960.6	31.5	32.0	-125.33	-2,836.2	5.0	710.7	646.5	64.18	11.073	
11,020.0	7,549.9	11,405.7	7,960.6	31.6	32.2	-125.34	-2,856.2	4.8	710.7	646.3	64.43	11.031	
11,100.0	7,549.7	11,485.7	7,960.6	32.1	32.6	-125.35	-2,936.2	4.2	710.8	645.4	65.43	10.864	
11,115.0	7,549.7	11,500.7	7,960.6	32.2	32.7	-125.35	-2,951.2	4.1	710.9	645.2	65.62	10.833	
11,200.0	7,549.5	11,585.7	7,960.7	32.7	33.2	-125.37	-3,036.2	3.4	711.0	644.3	66.69	10.661	
11,210.0	7,549.5	11,595.7	7,960.7	32.8	33.3	-125.37	-3,046.2	3.3	711.0	644.2	66.82	10.641	
11,300.0	7,549.3	11,685.7	7,960.7	33.3	33.8	-125.38	-3,136.1	2.6	711.1	643.2	67.96	10.464	
11,305.0	7,549.3	11,690.7	7,960.7	33.4	33.9	-125.38	-3,141.1	2.6	711.1	643.1	68.03	10.454	
11,400.0	7,549.1	11,785.7	7,960.8	33.9	34.4	-125.40	-3,236.1	1.8	711.3	642.0	69.25	10.272	
11,495.0	7,548.9	11,880.7	7,960.8	34.5	35.0	-125.42	-3,331.1	1.1	711.4	640.9	70.47	10.095	
11,500.0	7,548.9	11,885.7	7,960.8	34.6	35.1	-125.42	-3,336.1	1.0	711.4	640.9	70.54	10.086	
11,590.0	7,548.8	11,975.7	7,960.9	35.1	35.6	-125.43	-3,426.1	0.3	711.6	639.9	71.71	9.922	
11,600.0	7,548.7	11,985.7	7,960.9	35.2	35.7	-125.43	-3,436.1	0.2	711.6	639.7	71.84	9.905	
11,685.0	7,548.6	12,070.7	7,960.9	35.7	36.2	-125.45	-3,521.1	-0.5	711.7	638.7	72.96	9.755	
11,700.0	7,548.5	12,085.7	7,960.9	35.8	36.3	-125.45	-3,536.1	-0.6	711.7	638.6	73.16	9.729	
11,780.0	7,548.4	12,165.7	7,961.0	36.3	36.8	-125.46	-3,616.1	-1.2	711.8	637.6	74.21	9.592	
11,800.0	7,548.3	12,185.7	7,961.0	36.5	37.0	-125.47	-3,636.1	-1.4	711.9	637.4	74.48	9.558	
11,875.0	7,548.2	12,260.7	7,961.0	37.0	37.4	-125.48	-3,711.1	-2.0	712.0	636.5	75.47	9.433	
11,900.0	7,548.1	12,285.7	7,961.0	37.1	37.6	-125.48	-3,736.1	-2.2	712.0	636.2	75.81	9.392	
11,970.0	7,548.0	12,355.7	7,961.1	37.6	38.0	-125.50	-3,806.1	-2.7	712.1	635.4	76.74	9.279	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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-MWD+IFR1+MS, 7459-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	Minimum	Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Centres (usft)	Ellipses (usft)		
12,000.0	7,547.9	12,385.7	7,961.1	37.8	38.2	-125.50	-3,836.1	-3.0	712.2	635.0	77.15	9.231
12,065.0	7,547.8	12,450.7	7,961.1	38.2	38.7	-125.51	-3,901.1	-3.5	712.3	634.2	78.02	9.129
12,100.0	7,547.7	12,485.7	7,961.1	38.4	38.9	-125.52	-3,936.1	-3.7	712.3	633.8	78.49	9.075
12,160.0	7,547.6	12,545.7	7,961.2	38.8	39.3	-125.53	-3,996.1	-4.2	712.4	633.1	79.30	8.983
12,200.0	7,547.5	12,585.7	7,961.2	39.1	39.5	-125.53	-4,036.1	-4.5	712.5	632.6	79.84	8.923
12,255.0	7,547.4	12,640.7	7,961.2	39.4	39.9	-125.54	-4,091.1	-5.0	712.5	632.0	80.59	8.841
12,300.0	7,547.3	12,685.7	7,961.2	39.7	40.2	-125.55	-4,136.1	-5.3	712.6	631.4	81.20	8.776
12,350.0	7,547.2	12,735.7	7,961.3	40.1	40.5	-125.56	-4,186.1	-5.7	712.7	630.8	81.89	8.703
12,400.0	7,547.1	12,785.7	7,961.3	40.4	40.9	-125.57	-4,236.1	-6.1	712.8	630.2	82.57	8.632
12,445.0	7,547.0	12,830.7	7,961.3	40.7	41.2	-125.57	-4,281.1	-6.5	712.8	629.6	83.19	8.569
12,500.0	7,546.9	12,885.7	7,961.3	41.1	41.5	-125.58	-4,336.1	-6.9	712.9	629.0	83.94	8.493
12,540.0	7,546.8	12,925.7	7,961.4	41.4	41.8	-125.59	-4,376.1	-7.2	713.0	628.5	84.49	8.438
12,600.0	7,546.7	12,985.7	7,961.4	41.8	42.2	-125.60	-4,436.1	-7.7	713.1	627.7	85.32	8.358
12,635.0	7,546.6	13,020.7	7,961.4	42.0	42.4	-125.61	-4,471.1	-8.0	713.1	627.3	85.80	8.311
12,700.0	7,546.5	13,085.7	7,961.5	42.4	42.9	-125.62	-4,536.1	-8.5	713.2	626.5	86.70	8.226
12,730.0	7,546.5	13,115.7	7,961.5	42.6	43.1	-125.62	-4,566.1	-8.8	713.2	626.1	87.12	8.187
12,800.0	7,546.3	13,185.7	7,961.5	43.1	43.5	-125.63	-4,636.1	-9.3	713.3	625.3	88.09	8.098
12,825.0	7,546.3	13,210.7	7,961.5	43.3	43.7	-125.64	-4,661.1	-9.5	713.4	624.9	88.44	8.066
12,900.0	7,546.1	13,285.7	7,961.6	43.8	44.2	-125.65	-4,736.1	-10.1	713.5	624.0	89.48	7.973
12,920.0	7,546.1	13,305.7	7,961.6	43.9	44.4	-125.65	-4,756.1	-10.3	713.5	623.8	89.76	7.949
13,000.0	7,545.9	13,385.7	7,961.6	44.5	44.9	-125.67	-4,836.1	-10.9	713.6	622.8	90.88	7.852
13,015.0	7,545.9	13,400.7	7,961.6	44.6	45.0	-125.67	-4,851.1	-11.0	713.7	622.6	91.09	7.834
13,100.0	7,545.7	13,485.7	7,961.7	45.2	45.6	-125.68	-4,936.1	-11.7	713.8	621.5	92.29	7.735
13,110.0	7,545.7	13,495.7	7,961.7	45.2	45.7	-125.68	-4,946.1	-11.8	713.8	621.4	92.43	7.723
13,200.0	7,545.5	13,585.7	7,961.7	45.9	46.3	-125.70	-5,036.1	-12.5	713.9	620.2	93.69	7.620
13,205.0	7,545.5	13,590.7	7,961.7	45.9	46.3	-125.70	-5,041.1	-12.5	713.9	620.2	93.76	7.614
13,300.0	7,545.3	13,685.7	7,961.8	46.6	47.0	-125.72	-5,136.1	-13.3	714.1	619.0	95.11	7.508
13,395.0	7,545.1	13,780.7	7,961.8	47.2	47.6	-125.73	-5,231.1	-14.0	714.2	617.8	96.45	7.405
13,400.0	7,545.1	13,785.7	7,961.8	47.2	47.6	-125.73	-5,236.1	-14.1	714.2	617.7	96.52	7.400
13,490.0	7,544.9	13,875.7	7,961.9	47.9	48.3	-125.75	-5,326.1	-14.8	714.4	616.6	97.80	7.304
13,500.0	7,544.9	13,885.7	7,961.9	47.9	48.3	-125.75	-5,336.1	-14.9	714.4	616.4	97.94	7.294
13,585.0	7,544.7	13,970.7	7,961.9	48.5	48.9	-125.76	-5,421.1	-15.5	714.5	615.4	99.15	7.206
13,600.0	7,544.7	13,985.7	7,961.9	48.6	49.0	-125.76	-5,436.1	-15.7	714.5	615.2	99.36	7.191
13,680.0	7,544.5	14,065.7	7,962.0	49.2	49.6	-125.78	-5,516.1	-16.3	714.7	614.1	100.51	7.111
13,700.0	7,544.5	14,085.7	7,962.0	49.3	49.7	-125.78	-5,536.1	-16.5	714.7	613.9	100.79	7.091
13,775.0	7,544.4	14,160.7	7,962.0	49.9	50.3	-125.79	-5,611.1	-17.1	714.8	612.9	101.86	7.017
13,800.0	7,544.3	14,185.7	7,962.0	50.0	50.4	-125.80	-5,636.1	-17.3	714.8	612.6	102.22	6.993
13,870.0	7,544.2	14,255.7	7,962.1	50.5	50.9	-125.81	-5,706.1	-17.8	714.9	611.7	103.23	6.926
13,900.0	7,544.1	14,285.7	7,962.1	50.8	51.1	-125.81	-5,736.1	-18.1	715.0	611.3	103.66	6.898
13,965.0	7,544.0	14,350.7	7,962.1	51.2	51.6	-125.82	-5,801.1	-18.6	715.1	610.5	104.59	6.837
14,000.0	7,543.9	14,385.7	7,962.1	51.5	51.8	-125.83	-5,836.1	-18.8	715.1	610.0	105.09	6.805
14,060.0	7,543.8	14,445.7	7,962.2	51.9	52.3	-125.84	-5,896.1	-19.3	715.2	609.3	105.96	6.750
14,100.0	7,543.7	14,485.7	7,962.2	52.2	52.5	-125.85	-5,936.1	-19.6	715.3	608.7	106.53	6.714
14,155.0	7,543.6	14,540.7	7,962.2	52.6	52.9	-125.86	-5,991.0	-20.1	715.4	608.0	107.33	6.665
14,200.0	7,543.5	14,585.7	7,962.2	52.9	53.2	-125.86	-6,036.0	-20.4	715.4	607.5	107.97	6.626
14,250.0	7,543.4	14,635.7	7,962.3	53.2	53.6	-125.87	-6,086.0	-20.8	715.5	606.8	108.70	6.583
14,300.0	7,543.3	14,685.7	7,962.3	53.6	54.0	-125.88	-6,136.0	-21.2	715.6	606.2	109.42	6.540
14,345.0	7,543.2	14,730.7	7,962.3	53.9	54.3	-125.89	-6,181.0	-21.6	715.6	605.6	110.07	6.502
14,400.0	7,543.1	14,785.7	7,962.3	54.3	54.7	-125.90	-6,236.0	-22.0	715.7	604.9	110.87	6.456
14,440.0	7,543.0	14,825.7	7,962.4	54.6	54.9	-125.90	-6,276.0	-22.3	715.8	604.3	111.45	6.423
14,500.0	7,542.9	14,885.7	7,962.4	55.0	55.4	-125.91	-6,336.0	-22.8	715.9	603.6	112.32	6.374

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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-MWD+IFR1+MS, 7459-MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum		Separation		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation (usft)		
14,535.0	7,542.8	14,920.7	7,962.4	55.3	55.6	-125.92	-6,371.0	-23.1	715.9	603.1	112.83	6.345	
14,600.0	7,542.7	14,985.7	7,962.4	55.7	56.1	-125.93	-6,436.0	-23.6	716.0	602.3	113.77	6.294	
14,630.0	7,542.6	15,015.7	7,962.5	55.9	56.3	-125.93	-6,466.0	-23.9	716.1	601.9	114.21	6.270	
14,700.0	7,542.5	15,085.7	7,962.5	56.4	56.8	-125.95	-6,536.0	-24.4	716.2	600.9	115.23	6.215	
14,725.0	7,542.4	15,110.7	7,962.5	56.6	57.0	-125.95	-6,561.0	-24.6	716.2	600.6	115.59	6.196	
14,800.0	7,542.3	15,185.7	7,962.5	57.2	57.5	-125.96	-6,636.0	-25.2	716.3	599.6	116.68	6.139	
14,820.0	7,542.2	15,205.7	7,962.6	57.3	57.7	-125.96	-6,656.0	-25.4	716.4	599.4	116.98	6.124	
14,900.0	7,542.1	15,285.7	7,962.6	57.9	58.2	-125.98	-6,736.0	-26.0	716.5	598.3	118.14	6.064	
14,915.0	7,542.1	15,300.7	7,962.6	58.0	58.3	-125.98	-6,751.0	-26.1	716.5	598.1	118.36	6.053	
15,000.0	7,541.9	15,385.7	7,962.6	58.6	58.9	-125.99	-6,836.0	-26.8	716.6	597.0	119.61	5.992	
15,010.0	7,541.9	15,395.7	7,962.7	58.7	59.0	-126.00	-6,846.0	-26.9	716.6	596.9	119.75	5.984	
15,100.0	7,541.7	15,485.7	7,962.7	59.3	59.7	-126.01	-6,936.0	-27.6	716.8	595.7	121.07	5.920	
15,105.0	7,541.7	15,490.7	7,962.7	59.4	59.7	-126.01	-6,941.0	-27.6	716.8	595.6	121.14	5.917	
15,200.0	7,541.5	15,585.7	7,962.7	60.0	60.4	-126.03	-7,036.0	-28.4	716.9	594.4	122.54	5.851	
15,295.0	7,541.3	15,680.7	7,962.8	60.7	61.1	-126.04	-7,131.0	-29.1	717.1	593.1	123.93	5.786	
15,300.0	7,541.3	15,685.7	7,962.8	60.8	61.1	-126.04	-7,136.0	-29.2	717.1	593.1	124.00	5.783	
15,390.0	7,541.1	15,775.7	7,962.8	61.4	61.7	-126.06	-7,226.0	-29.9	717.2	591.9	125.33	5.723	
15,400.0	7,541.1	15,785.7	7,962.9	61.5	61.8	-126.06	-7,236.0	-30.0	717.2	591.7	125.47	5.716	
15,485.0	7,540.9	15,870.7	7,962.9	62.1	62.4	-126.07	-7,321.0	-30.6	717.3	590.6	126.72	5.661	
15,500.0	7,540.9	15,885.7	7,962.9	62.2	62.5	-126.08	-7,336.0	-30.8	717.4	590.4	126.94	5.651	
15,580.0	7,540.7	15,965.7	7,962.9	62.8	63.1	-126.09	-7,416.0	-31.4	717.5	589.4	128.12	5.600	
15,600.0	7,540.7	15,985.7	7,963.0	62.9	63.3	-126.09	-7,436.0	-31.6	717.5	589.1	128.42	5.587	
15,675.0	7,540.5	16,060.7	7,963.0	63.5	63.8	-126.10	-7,511.0	-32.2	717.6	588.1	129.52	5.541	
15,700.0	7,540.5	16,085.7	7,963.0	63.7	64.0	-126.11	-7,536.0	-32.4	717.7	587.8	129.89	5.525	
15,770.0	7,540.3	16,155.7	7,963.0	64.2	64.5	-126.12	-7,606.0	-32.9	717.8	586.8	130.93	5.482	
15,800.0	7,540.3	16,185.7	7,963.1	64.4	64.7	-126.13	-7,636.0	-33.2	717.8	586.4	131.37	5.464	
15,865.0	7,540.1	16,250.7	7,963.1	64.9	65.2	-126.14	-7,701.0	-33.7	717.9	585.6	132.33	5.425	
15,900.0	7,540.1	16,285.7	7,963.1	65.1	65.4	-126.14	-7,736.0	-33.9	718.0	585.1	132.85	5.405	
15,960.0	7,539.9	16,345.7	7,963.1	65.6	65.9	-126.15	-7,796.0	-34.4	718.1	584.3	133.73	5.369	
16,000.0	7,539.9	16,385.7	7,963.2	65.9	66.2	-126.16	-7,836.0	-34.7	718.1	583.8	134.33	5.346	
16,055.0	7,539.8	16,440.7	7,963.2	66.3	66.6	-126.17	-7,891.0	-35.2	718.2	583.1	135.14	5.314	
16,100.0	7,539.7	16,485.7	7,963.2	66.6	66.9	-126.17	-7,936.0	-35.5	718.3	582.5	135.81	5.289	
16,150.0	7,539.6	16,535.7	7,963.2	67.0	67.3	-126.18	-7,986.0	-35.9	718.3	581.8	136.55	5.261	
16,200.0	7,539.5	16,585.7	7,963.3	67.3	67.6	-126.19	-8,036.0	-36.3	718.4	581.1	137.29	5.233	
16,245.0	7,539.4	16,630.7	7,963.3	67.6	68.0	-126.20	-8,081.0	-36.7	718.5	580.5	137.96	5.208	
16,300.0	7,539.3	16,685.7	7,963.3	68.1	68.4	-126.21	-8,136.0	-37.1	718.6	579.8	138.77	5.178	
16,340.0	7,539.2	16,725.7	7,963.3	68.3	68.6	-126.21	-8,176.0	-37.4	718.6	579.3	139.37	5.156	
16,400.0	7,539.1	16,785.7	7,963.4	68.8	69.1	-126.22	-8,236.0	-37.9	718.7	578.5	140.26	5.124	
16,435.0	7,539.0	16,820.7	7,963.4	69.0	69.3	-126.23	-8,271.0	-38.2	718.8	578.0	140.78	5.106	
16,500.0	7,538.9	16,885.7	7,963.4	69.5	69.8	-126.24	-8,336.0	-38.7	718.9	577.1	141.74	5.072	
16,530.0	7,538.8	16,915.7	7,963.4	69.7	70.0	-126.24	-8,366.0	-39.0	718.9	576.7	142.19	5.056	
16,600.0	7,538.7	16,985.7	7,963.5	70.3	70.6	-126.26	-8,436.0	-39.5	719.0	575.8	143.23	5.020	
16,625.0	7,538.6	17,010.7	7,963.5	70.4	70.7	-126.26	-8,461.0	-39.7	719.1	575.5	143.60	5.007	
16,700.0	7,538.5	17,085.7	7,963.5	71.0	71.3	-126.27	-8,536.0	-40.3	719.2	574.4	144.72	4.969	
16,720.0	7,538.4	17,105.7	7,963.5	71.1	71.4	-126.27	-8,556.0	-40.5	719.2	574.2	145.02	4.959	
16,800.0	7,538.3	17,185.7	7,963.6	71.7	72.0	-126.29	-8,636.0	-41.1	719.3	573.1	146.21	4.920	
16,815.0	7,538.2	17,200.7	7,963.6	71.8	72.1	-126.29	-8,651.0	-41.2	719.3	572.9	146.43	4.912	
16,900.0	7,538.1	17,285.7	7,963.6	72.5	72.7	-126.30	-8,736.0	-41.9	719.5	571.8	147.70	4.871	
16,910.0	7,538.0	17,295.7	7,963.6	72.5	72.8	-126.31	-8,746.0	-42.0	719.5	571.6	147.85	4.866	
17,000.0	7,537.9	17,385.7	7,963.7	73.2	73.5	-126.32	-8,836.0	-42.7	719.6	570.4	149.19	4.823	
17,005.0	7,537.8	17,390.7	7,963.7	73.2	73.5	-126.32	-8,841.0	-42.7	719.6	570.4	149.27	4.821	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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-MWD+IFR1+MS, 7459-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
17,100.0	7,537.6	17,485.7	7,963.7	73.9	74.2	-126.34	-8,935.9	-43.5	719.8	569.1	150.68	4.777
17,195.0	7,537.5	17,580.7	7,963.8	74.6	74.9	-126.35	-9,030.9	-44.2	719.9	567.8	152.10	4.733
17,200.0	7,537.4	17,585.7	7,963.8	74.7	75.0	-126.35	-9,035.9	-44.3	719.9	567.7	152.18	4.731
17,290.0	7,537.3	17,675.7	7,963.8	75.3	75.6	-126.37	-9,125.9	-45.0	720.1	566.5	153.52	4.690
17,300.0	7,537.2	17,685.7	7,963.8	75.4	75.7	-126.37	-9,135.9	-45.1	720.1	566.4	153.67	4.686
17,385.0	7,537.1	17,770.7	7,963.9	76.0	76.3	-126.38	-9,220.9	-45.7	720.2	565.3	154.94	4.648
17,400.0	7,537.0	17,785.7	7,963.9	76.1	76.4	-126.39	-9,235.9	-45.9	720.2	565.1	155.17	4.642
17,480.0	7,536.9	17,865.7	7,963.9	76.7	77.0	-126.40	-9,315.9	-46.5	720.3	564.0	156.37	4.607
17,500.0	7,536.8	17,885.7	7,963.9	76.9	77.2	-126.40	-9,335.9	-46.7	720.4	563.7	156.67	4.598
17,575.0	7,536.7	17,960.7	7,964.0	77.4	77.7	-126.41	-9,410.9	-47.3	720.5	562.7	157.79	4.566
17,600.0	7,536.6	17,985.7	7,964.0	77.6	77.9	-126.42	-9,435.9	-47.5	720.5	562.4	158.16	4.556
17,670.0	7,536.5	18,055.7	7,964.0	78.1	78.4	-126.43	-9,505.9	-48.0	720.6	561.4	159.21	4.526
17,700.0	7,536.4	18,085.7	7,964.0	78.4	78.6	-126.43	-9,535.9	-48.3	720.7	561.0	159.66	4.514
17,765.0	7,536.3	18,150.7	7,964.1	78.8	79.1	-126.44	-9,600.9	-48.8	720.8	560.1	160.64	4.487
17,800.0	7,536.2	18,185.7	7,964.1	79.1	79.4	-126.45	-9,635.9	-49.0	720.8	559.7	161.16	4.473
17,860.0	7,536.1	18,245.7	7,964.1	79.5	79.8	-126.46	-9,695.9	-49.5	720.9	558.9	162.06	4.448
17,900.0	7,536.0	18,285.7	7,964.1	79.8	80.1	-126.47	-9,735.9	-49.8	721.0	558.3	162.66	4.432
17,955.0	7,535.9	18,340.7	7,964.2	80.3	80.5	-126.48	-9,790.9	-50.3	721.1	557.6	163.49	4.410
18,000.0	7,535.8	18,385.7	7,964.2	80.6	80.9	-126.48	-9,835.9	-50.6	721.1	557.0	164.16	4.393
18,050.0	7,535.7	18,435.7	7,964.2	81.0	81.2	-126.49	-9,885.9	-51.0	721.2	556.3	164.91	4.373
18,100.0	7,535.6	18,485.7	7,964.3	81.3	81.6	-126.50	-9,935.9	-51.4	721.3	555.6	165.67	4.354
18,145.0	7,535.5	18,530.7	7,964.3	81.7	81.9	-126.51	-9,980.9	-51.8	721.3	555.0	166.34	4.337
18,200.0	7,535.4	18,585.7	7,964.3	82.1	82.3	-126.51	-10,035.9	-52.2	721.4	554.3	167.17	4.316
18,240.0	7,535.4	18,625.7	7,964.3	82.4	82.6	-126.52	-10,075.9	-52.5	721.5	553.7	167.77	4.300
18,300.0	7,535.2	18,685.7	7,964.4	82.8	83.1	-126.53	-10,135.9	-53.0	721.6	552.9	168.67	4.278
18,335.0	7,535.2	18,720.7	7,964.4	83.1	83.3	-126.54	-10,170.9	-53.3	721.6	552.4	169.20	4.265
18,400.0	7,535.0	18,785.7	7,964.4	83.6	83.8	-126.55	-10,235.9	-53.8	721.7	551.6	170.18	4.241
18,430.0	7,535.0	18,815.7	7,964.4	83.8	84.0	-126.55	-10,265.9	-54.1	721.8	551.2	170.63	4.230
18,500.0	7,534.8	18,885.7	7,964.5	84.3	84.6	-126.56	-10,335.9	-54.6	721.9	550.2	171.68	4.205
18,525.0	7,534.8	18,910.7	7,964.5	84.5	84.7	-126.57	-10,360.9	-54.8	721.9	549.9	172.06	4.196
18,600.0	7,534.6	18,985.7	7,964.5	85.0	85.3	-126.58	-10,435.9	-55.4	722.0	548.8	173.19	4.169
18,620.0	7,534.6	19,005.7	7,964.5	85.2	85.5	-126.58	-10,455.9	-55.6	722.1	548.6	173.49	4.162
18,700.0	7,534.4	19,085.7	7,964.6	85.8	86.0	-126.60	-10,535.9	-56.2	722.2	547.5	174.69	4.134
18,715.0	7,534.4	19,100.7	7,964.6	85.9	86.2	-126.60	-10,550.9	-56.3	722.2	547.3	174.92	4.129
18,800.0	7,534.2	19,185.7	7,964.6	86.5	86.8	-126.61	-10,635.9	-57.0	722.3	546.1	176.20	4.100
18,810.0	7,534.2	19,195.7	7,964.6	86.6	86.9	-126.61	-10,645.9	-57.1	722.4	546.0	176.35	4.096
18,900.0	7,534.0	19,285.7	7,964.7	87.3	87.5	-126.63	-10,735.9	-57.8	722.5	544.8	177.71	4.066
18,905.0	7,534.0	19,290.7	7,964.7	87.3	87.6	-126.63	-10,740.9	-57.8	722.5	544.7	177.78	4.064
19,000.0	7,533.8	19,385.7	7,964.7	88.0	88.3	-126.64	-10,835.9	-58.6	722.6	543.4	179.22	4.032
19,095.0	7,533.6	19,480.7	7,964.8	88.7	89.0	-126.66	-10,930.9	-59.3	722.8	542.1	180.65	4.001
19,100.0	7,533.6	19,485.7	7,964.8	88.8	89.0	-126.66	-10,935.9	-59.4	722.8	542.1	180.73	3.999
19,190.0	7,533.4	19,575.7	7,964.8	89.4	89.7	-126.67	-11,025.9	-60.1	722.9	540.8	182.08	3.970
19,200.0	7,533.4	19,585.7	7,964.8	89.5	89.8	-126.68	-11,035.9	-60.2	722.9	540.7	182.24	3.967
19,285.0	7,533.2	19,670.7	7,964.9	90.1	90.4	-126.69	-11,120.9	-60.8	723.1	539.6	183.52	3.940
19,300.0	7,533.2	19,685.7	7,964.9	90.3	90.5	-126.69	-11,135.9	-61.0	723.1	539.4	183.75	3.935
19,380.0	7,533.1	19,765.7	7,964.9	90.9	91.1	-126.70	-11,215.9	-61.6	723.2	538.3	184.95	3.910
19,400.0	7,533.0	19,785.7	7,964.9	91.0	91.3	-126.71	-11,235.9	-61.8	723.2	538.0	185.26	3.904
19,475.0	7,532.9	19,860.7	7,965.0	91.6	91.8	-126.72	-11,310.9	-62.4	723.4	537.0	186.39	3.881
19,500.0	7,532.8	19,885.7	7,965.0	91.8	92.0	-126.72	-11,335.9	-62.6	723.4	536.6	186.77	3.873
19,570.0	7,532.7	19,955.7	7,965.0	92.3	92.5	-126.74	-11,405.9	-63.1	723.5	535.7	187.83	3.852
19,600.0	7,532.6	19,985.7	7,965.0	92.5	92.7	-126.74	-11,435.9	-63.4	723.6	535.3	188.28	3.843

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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-MWD+IFR1+MS, 7459-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Separation Factor	
19,665.0	7,532.5	20,050.7	7,965.1	93.0	93.2	-126.75	-11,500.9	-63.9	723.7	534.4	189.26	3.824
19,700.0	7,532.4	20,085.7	7,965.1	93.2	93.5	-126.76	-11,535.9	-64.1	723.7	533.9	189.79	3.813
19,760.0	7,532.3	20,145.7	7,965.1	93.7	93.9	-126.77	-11,595.9	-64.6	723.8	533.1	190.70	3.795
19,800.0	7,532.2	20,185.7	7,965.1	94.0	94.2	-126.77	-11,635.9	-64.9	723.9	532.6	191.31	3.784
19,855.0	7,532.1	20,240.7	7,965.2	94.4	94.6	-126.78	-11,690.9	-65.4	723.9	531.8	192.14	3.768
19,900.0	7,532.0	20,285.7	7,965.2	94.7	95.0	-126.79	-11,735.8	-65.7	724.0	531.2	192.82	3.755
19,950.0	7,531.9	20,335.7	7,965.2	95.1	95.4	-126.80	-11,785.8	-66.1	724.1	530.5	193.58	3.741
20,000.0	7,531.8	20,385.7	7,965.2	95.5	95.7	-126.80	-11,835.8	-66.5	724.2	529.8	194.33	3.726
20,045.0	7,531.7	20,430.7	7,965.3	95.8	96.1	-126.81	-11,880.8	-66.9	724.2	529.2	195.01	3.714
20,100.0	7,531.6	20,485.7	7,965.3	96.2	96.5	-126.82	-11,935.8	-67.3	724.3	528.5	195.85	3.698
20,140.0	7,531.5	20,525.7	7,965.3	96.5	96.8	-126.83	-11,975.8	-67.6	724.4	527.9	196.45	3.687
20,200.0	7,531.4	20,585.7	7,965.3	97.0	97.2	-126.84	-12,035.8	-68.1	724.5	527.1	197.36	3.671
20,235.0	7,531.3	20,620.7	7,965.4	97.2	97.5	-126.84	-12,070.8	-68.4	724.5	526.6	197.89	3.661
20,300.0	7,531.2	20,685.7	7,965.4	97.7	98.0	-126.85	-12,135.8	-68.9	724.6	525.7	198.88	3.644
20,330.0	7,531.1	20,715.7	7,965.4	98.0	98.2	-126.86	-12,165.8	-69.2	724.7	525.3	199.33	3.635
20,400.0	7,531.0	20,785.7	7,965.4	98.5	98.7	-126.87	-12,235.8	-69.7	724.8	524.4	200.39	3.617
20,425.0	7,530.9	20,810.7	7,965.5	98.7	98.9	-126.87	-12,260.8	-69.9	724.8	524.0	200.77	3.610
20,500.0	7,530.8	20,885.7	7,965.5	99.2	99.5	-126.88	-12,335.8	-70.5	724.9	523.0	201.91	3.590
20,520.0	7,530.8	20,905.7	7,965.5	99.4	99.6	-126.89	-12,355.8	-70.7	725.0	522.7	202.21	3.585
20,600.0	7,530.6	20,985.7	7,965.6	100.0	100.2	-126.90	-12,435.8	-71.3	725.1	521.6	203.43	3.564
20,615.0	7,530.6	21,000.7	7,965.6	100.1	100.3	-126.90	-12,450.8	-71.4	725.1	521.4	203.65	3.560
20,700.0	7,530.4	21,085.7	7,965.6	100.7	101.0	-126.92	-12,535.8	-72.1	725.2	520.3	204.94	3.539
20,710.0	7,530.4	21,095.7	7,965.6	100.8	101.0	-126.92	-12,545.8	-72.2	725.2	520.1	205.10	3.536
20,800.0	7,530.2	21,185.7	7,965.7	101.5	101.7	-126.93	-12,635.8	-72.9	725.4	518.9	206.46	3.513
20,805.0	7,530.2	21,190.7	7,965.7	101.5	101.8	-126.93	-12,640.8	-72.9	725.4	518.9	206.54	3.512
20,900.0	7,530.0	21,285.7	7,965.7	102.2	102.5	-126.95	-12,735.8	-73.7	725.5	517.6	207.98	3.488
20,995.0	7,529.8	21,380.7	7,965.8	102.9	103.2	-126.96	-12,830.8	-74.4	725.7	516.3	209.42	3.465
21,000.0	7,529.8	21,385.7	7,965.8	103.0	103.2	-126.96	-12,835.8	-74.5	725.7	516.2	209.50	3.464
21,090.0	7,529.6	21,475.7	7,965.8	103.7	103.9	-126.98	-12,925.8	-75.2	725.8	515.0	210.87	3.442
21,100.0	7,529.6	21,485.7	7,965.8	103.7	104.0	-126.98	-12,935.8	-75.3	725.8	514.8	211.02	3.440
21,185.0	7,529.4	21,570.7	7,965.9	104.4	104.6	-126.99	-13,020.8	-75.9	726.0	513.7	212.31	3.419
21,200.0	7,529.4	21,585.7	7,965.9	104.5	104.7	-127.00	-13,035.8	-76.1	726.0	513.5	212.54	3.416
21,280.0	7,529.2	21,665.7	7,965.9	105.1	105.3	-127.01	-13,115.8	-76.7	726.1	512.4	213.75	3.397
21,300.0	7,529.2	21,685.7	7,965.9	105.2	105.5	-127.01	-13,135.8	-76.9	726.1	512.1	214.06	3.392
21,375.0	7,529.0	21,760.7	7,966.0	105.8	106.0	-127.02	-13,210.8	-77.5	726.3	511.1	215.20	3.375
21,400.0	7,529.0	21,785.7	7,966.0	106.0	106.2	-127.03	-13,235.8	-77.7	726.3	510.7	215.58	3.369
21,470.0	7,528.8	21,855.7	7,966.0	106.5	106.7	-127.04	-13,305.8	-78.2	726.4	509.8	216.64	3.353
21,500.0	7,528.8	21,885.7	7,966.0	106.7	107.0	-127.04	-13,335.8	-78.5	726.5	509.4	217.10	3.346
21,565.0	7,528.7	21,950.7	7,966.1	107.2	107.4	-127.05	-13,400.8	-79.0	726.6	508.5	218.08	3.332
21,600.0	7,528.6	21,985.7	7,966.1	107.5	107.7	-127.06	-13,435.8	-79.2	726.6	508.0	218.62	3.324
21,660.0	7,528.5	22,045.7	7,966.1	107.9	108.2	-127.07	-13,495.8	-79.7	726.7	507.2	219.53	3.310
21,700.0	7,528.4	22,085.7	7,966.1	108.2	108.5	-127.08	-13,535.8	-80.0	726.8	506.6	220.14	3.301
21,755.0	7,528.3	22,140.7	7,966.1	108.7	108.9	-127.08	-13,590.8	-80.5	726.8	505.9	220.97	3.289
21,800.0	7,528.2	22,185.7	7,966.2	109.0	109.2	-127.09	-13,635.8	-80.8	726.9	505.3	221.66	3.279
21,850.0	7,528.1	22,235.7	7,966.2	109.4	109.6	-127.10	-13,685.8	-81.2	727.0	504.6	222.42	3.269
21,900.0	7,528.0	22,285.7	7,966.2	109.7	110.0	-127.11	-13,735.8	-81.6	727.1	503.9	223.18	3.258
21,945.0	7,527.9	22,330.7	7,966.2	110.1	110.3	-127.11	-13,780.8	-82.0	727.1	503.3	223.87	3.248
22,000.0	7,527.8	22,385.7	7,966.3	110.5	110.7	-127.12	-13,835.8	-82.4	727.2	502.5	224.70	3.236
22,040.0	7,527.7	22,425.7	7,966.3	110.8	111.0	-127.13	-13,875.8	-82.7	727.3	502.0	225.31	3.228
22,100.0	7,527.6	22,485.7	7,966.3	111.2	111.5	-127.14	-13,935.8	-83.2	727.4	501.1	226.23	3.215
22,135.0	7,527.5	22,520.7	7,966.3	111.5	111.7	-127.14	-13,970.8	-83.5	727.4	500.7	226.76	3.208

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	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-MWD+IFR1+MS, 7459-MWD+IFR1+MS											Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Rule Assigned:		Distance		Minimum Separation		Separation	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Factor	
22,200.0	7,527.4	22,585.7	7,966.4	112.0	112.2	-127.16	-14,035.8	-84.0	727.5	499.8	227.75	3.194
22,230.0	7,527.3	22,615.7	7,966.4	112.2	112.4	-127.16	-14,065.8	-84.3	727.6	499.4	228.20	3.188
22,300.0	7,527.2	22,685.7	7,966.4	112.8	113.0	-127.17	-14,135.8	-84.8	727.7	498.4	229.27	3.174
22,325.0	7,527.1	22,710.7	7,966.4	112.9	113.2	-127.18	-14,160.8	-85.0	727.7	498.1	229.65	3.169
22,400.0	7,527.0	22,785.7	7,966.5	113.5	113.7	-127.19	-14,235.8	-85.6	727.8	497.0	230.79	3.154
22,420.0	7,526.9	22,805.7	7,966.5	113.7	113.9	-127.19	-14,255.8	-85.8	727.9	496.8	231.10	3.150
22,500.0	7,526.8	22,885.7	7,966.5	114.3	114.5	-127.20	-14,335.8	-86.4	728.0	495.7	232.32	3.134
22,515.0	7,526.7	22,900.7	7,966.5	114.4	114.6	-127.21	-14,350.8	-86.5	728.0	495.5	232.55	3.131
22,600.0	7,526.6	22,985.7	7,966.6	115.0	115.2	-127.22	-14,435.8	-87.2	728.1	494.3	233.84	3.114
22,610.0	7,526.5	22,995.7	7,966.6	115.1	115.3	-127.22	-14,445.8	-87.3	728.2	494.2	233.99	3.112
22,700.0	7,526.4	23,085.7	7,966.6	115.8	116.0	-127.23	-14,535.8	-88.0	728.3	492.9	235.37	3.094
22,705.0	7,526.4	23,090.7	7,966.6	115.8	116.0	-127.24	-14,540.8	-88.0	728.3	492.9	235.44	3.093
22,800.0	7,526.2	23,185.7	7,966.7	116.5	116.7	-127.25	-14,635.7	-88.8	728.4	491.6	236.89	3.075
22,895.0	7,526.0	23,280.7	7,966.7	117.2	117.4	-127.27	-14,730.7	-89.5	728.6	490.3	238.34	3.057
22,900.0	7,526.0	23,285.7	7,966.7	117.3	117.5	-127.27	-14,735.7	-89.6	728.6	490.2	238.42	3.056
22,990.0	7,525.8	23,375.7	7,966.8	117.9	118.2	-127.28	-14,825.7	-90.3	728.7	489.0	239.79	3.039
23,000.0	7,525.8	23,385.7	7,966.8	118.0	118.2	-127.28	-14,835.7	-90.4	728.8	488.8	239.94	3.037
23,085.0	7,525.6	23,470.7	7,966.8	118.7	118.9	-127.30	-14,920.7	-91.0	728.9	487.6	241.24	3.021
23,100.0	7,525.6	23,485.7	7,966.8	118.8	119.0	-127.30	-14,935.7	-91.2	728.9	487.4	241.47	3.019
23,180.0	7,525.4	23,565.7	7,966.9	119.4	119.6	-127.31	-15,015.7	-91.8	729.0	486.3	242.69	3.004
23,200.0	7,525.4	23,585.7	7,966.9	119.5	119.7	-127.31	-15,035.7	-92.0	729.1	486.1	242.99	3.000
23,275.0	7,525.2	23,660.7	7,966.9	120.1	120.3	-127.33	-15,110.7	-92.6	729.2	485.0	244.14	2.987
23,300.0	7,525.2	23,685.7	7,967.0	120.3	120.5	-127.33	-15,135.7	-92.8	729.2	484.7	244.52	2.982
23,327.3	7,525.1	23,713.0	7,967.0	120.5	120.7	-127.33	-15,163.1	-93.0	729.3	484.3	244.93	2.977
23,370.0	7,525.0	23,755.7	7,967.0	120.8	121.0	-127.34	-15,205.7	-93.3	729.3	483.7	245.58	2.970
23,377.4	7,525.0	23,763.0	7,967.0	120.9	121.1	-127.34	-15,213.1	-93.4	729.3	483.6	245.69	2.968
23,377.7	7,525.0	23,763.4	7,967.0	120.9	121.1	-127.34	-15,213.4	-93.4	729.3	483.6	245.70	2.968 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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - LEONARDO BKL FEDERAL COM #1 - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 250-INC-ONLY				Rule Assigned:								Offset Well Error:	10.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre			Distance		Warning		
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Minimum Separation (usft)	Separation Factor	Warning
8,455.0	7,555.1	7,528.3	7,523.5	23.4	220.6	90.26	-1,193.8	-963.4	994.9	752.0	242.86	4.096	
8,500.0	7,555.0	7,528.2	7,523.4	23.4	220.6	90.25	-1,193.8	-963.4	953.9	711.1	242.80	3.929	
8,550.0	7,554.9	7,528.1	7,523.3	23.4	220.6	90.23	-1,193.8	-963.4	908.8	666.0	242.73	3.744	
8,600.0	7,554.8	7,528.0	7,523.2	23.4	220.6	90.22	-1,193.8	-963.4	864.2	621.5	242.65	3.561	
8,645.0	7,554.7	7,527.9	7,523.1	23.4	220.6	90.21	-1,193.8	-963.4	824.6	582.0	242.58	3.399	
8,700.0	7,554.6	7,527.8	7,523.0	23.5	220.6	90.19	-1,193.8	-963.4	777.0	534.5	242.49	3.204	
8,740.0	7,554.5	7,527.7	7,522.9	23.5	220.6	90.18	-1,193.8	-963.4	743.1	500.7	242.42	3.065	
8,800.0	7,554.4	7,527.6	7,522.8	23.5	220.6	90.16	-1,193.8	-963.4	693.4	451.1	242.30	2.862	
8,835.0	7,554.3	7,527.5	7,522.7	23.5	220.6	90.15	-1,193.8	-963.4	665.1	422.9	242.24	2.746	
8,900.0	7,554.2	7,527.4	7,522.6	23.6	220.6	90.13	-1,193.8	-963.4	614.6	372.5	242.12	2.538	
8,930.0	7,554.1	7,527.3	7,522.5	23.6	220.6	90.13	-1,193.8	-963.4	592.2	350.1	242.07	2.446	
9,000.0	7,554.0	7,527.2	7,522.4	23.6	220.6	90.10	-1,193.8	-963.4	542.9	300.9	241.98	2.243	
9,025.0	7,553.9	7,527.1	7,522.3	23.7	220.6	90.10	-1,193.8	-963.4	526.4	284.4	241.96	2.175	
9,100.0	7,553.8	7,527.0	7,522.2	23.7	220.6	90.08	-1,193.8	-963.4	481.3	239.4	241.95	1.989	Advise and Monitor
9,120.0	7,553.7	7,526.9	7,522.1	23.7	220.6	90.07	-1,193.8	-963.4	470.6	228.6	241.98	1.945	Advise and Monitor
9,200.0	7,553.6	7,526.8	7,522.0	23.8	220.6	90.05	-1,193.8	-963.4	434.3	192.1	242.19	1.793	Advise and Monitor
9,215.0	7,553.5	7,526.7	7,521.9	23.8	220.6	90.04	-1,193.8	-963.4	428.8	186.6	242.25	1.770	Advise and Monitor
9,300.0	7,553.4	7,526.6	7,521.8	24.0	220.6	90.02	-1,193.8	-963.4	406.9	164.2	242.78	1.676	Advise and Monitor
9,310.0	7,553.3	7,526.5	7,521.7	24.0	220.6	90.02	-1,193.8	-963.4	405.4	162.6	242.86	1.669	Advise and Monitor
9,365.2	7,553.2	7,526.4	7,521.6	24.1	220.6	90.00	-1,193.8	-963.4	401.7	158.3	243.33	1.651	Advise and Monitor, CC, ES, SF
9,400.0	7,553.2	7,526.4	7,521.6	24.1	220.6	89.99	-1,193.8	-963.4	403.2	159.5	243.65	1.655	Advise and Monitor
9,405.0	7,553.2	7,526.4	7,521.6	24.2	220.6	89.99	-1,193.8	-963.4	403.6	160.0	243.69	1.656	Advise and Monitor
9,500.0	7,553.0	7,526.2	7,521.4	24.4	220.6	89.96	-1,193.8	-963.4	423.7	179.2	244.50	1.733	Advise and Monitor
9,595.0	7,552.8	7,526.0	7,521.2	24.6	220.5	89.93	-1,193.8	-963.4	462.8	217.7	245.10	1.888	Advise and Monitor
9,600.0	7,552.8	7,526.0	7,521.2	24.6	220.5	89.93	-1,193.8	-963.4	465.3	220.2	245.13	1.898	Advise and Monitor
9,690.0	7,552.6	7,525.8	7,521.0	24.9	220.5	89.91	-1,193.8	-963.4	516.6	271.1	245.46	2.105	
9,700.0	7,552.6	7,525.8	7,521.0	25.0	220.5	89.90	-1,193.8	-963.4	522.9	277.5	245.48	2.130	
9,785.0	7,552.4	7,525.6	7,520.8	25.3	220.5	89.88	-1,193.8	-963.4	581.0	335.4	245.63	2.365	
9,800.0	7,552.4	7,525.6	7,520.8	25.3	220.5	89.88	-1,193.8	-963.4	592.0	346.3	245.65	2.410	
9,880.0	7,552.2	7,525.4	7,520.6	25.6	220.5	89.85	-1,193.8	-963.4	653.0	407.3	245.70	2.658	
9,900.0	7,552.2	7,525.4	7,520.6	25.7	220.5	89.85	-1,193.8	-963.4	668.9	423.2	245.71	2.722	
9,975.0	7,552.0	7,525.2	7,520.4	26.1	220.5	89.82	-1,193.8	-963.4	730.2	484.5	245.71	2.972	
10,000.0	7,552.0	7,525.2	7,520.4	26.2	220.5	89.82	-1,193.8	-963.4	751.2	505.5	245.71	3.057	
10,070.0	7,551.8	7,525.0	7,520.2	26.5	220.5	89.80	-1,193.8	-963.4	811.3	565.6	245.69	3.302	
10,100.0	7,551.8	7,525.0	7,520.2	26.6	220.5	89.79	-1,193.8	-963.4	837.5	591.8	245.68	3.409	
10,165.0	7,551.6	7,524.8	7,520.0	26.9	220.5	89.77	-1,193.8	-963.4	895.0	649.4	245.66	3.643	
10,200.0	7,551.6	7,524.8	7,520.0	27.1	220.5	89.76	-1,193.8	-963.4	926.4	680.8	245.65	3.771	
10,260.0	7,551.4	7,524.6	7,519.8	27.4	220.5	89.74	-1,193.8	-963.4	980.9	735.2	245.62	3.993	

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

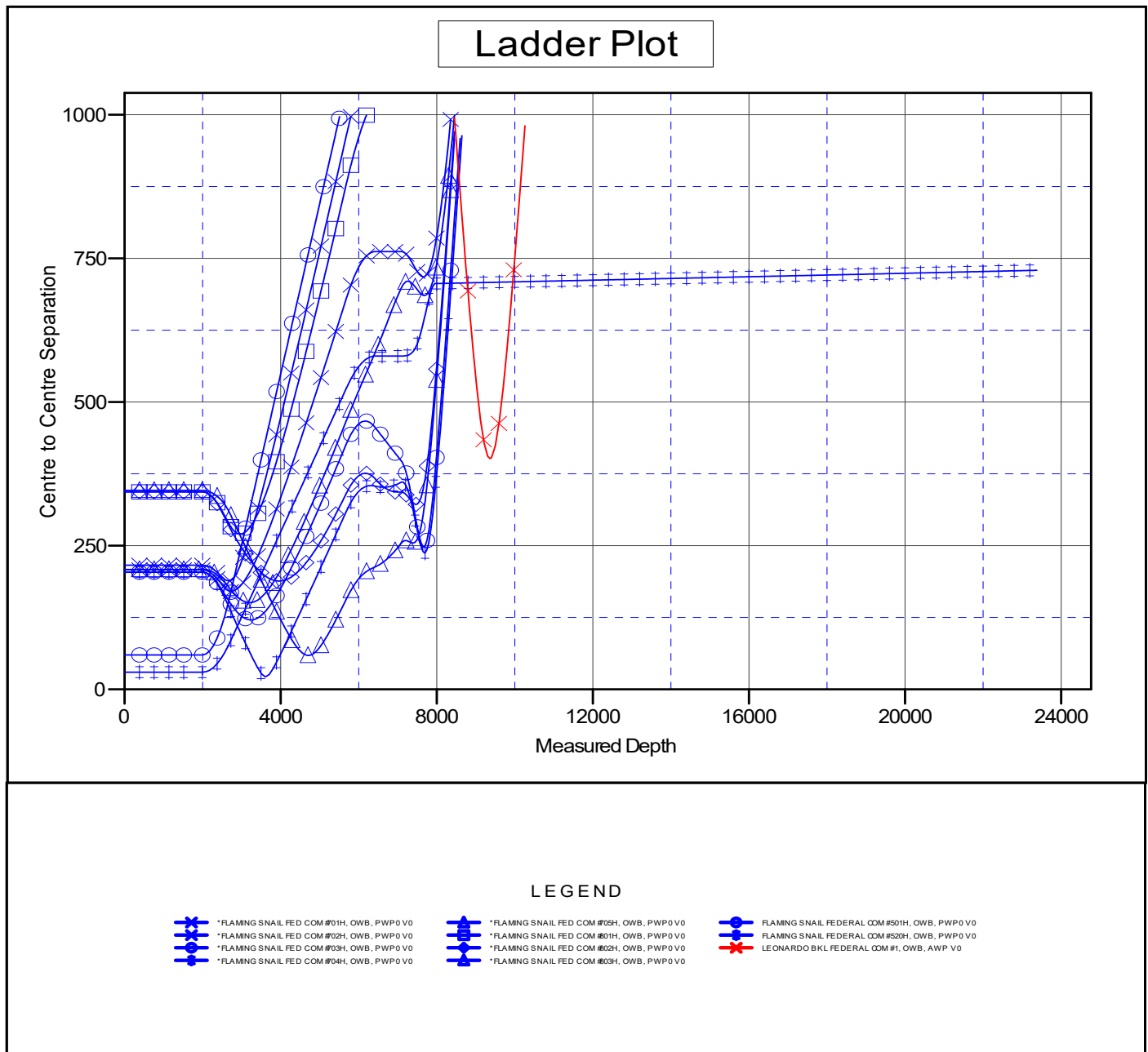
ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30ft @ 3161.6usft
 Offset Depths are relative to Offset Datum
 Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #502H
 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 #502H
Project:	ATLAS PROSPECT (NM-E)	TVD Reference:	*KB=30ft @ 3161.6usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	*KB=30ft @ 3161.6usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Well Error:	3.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 15 Central Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to *KB=30ft @ 3161.6usft

Offset Depths are relative to Offset Datum

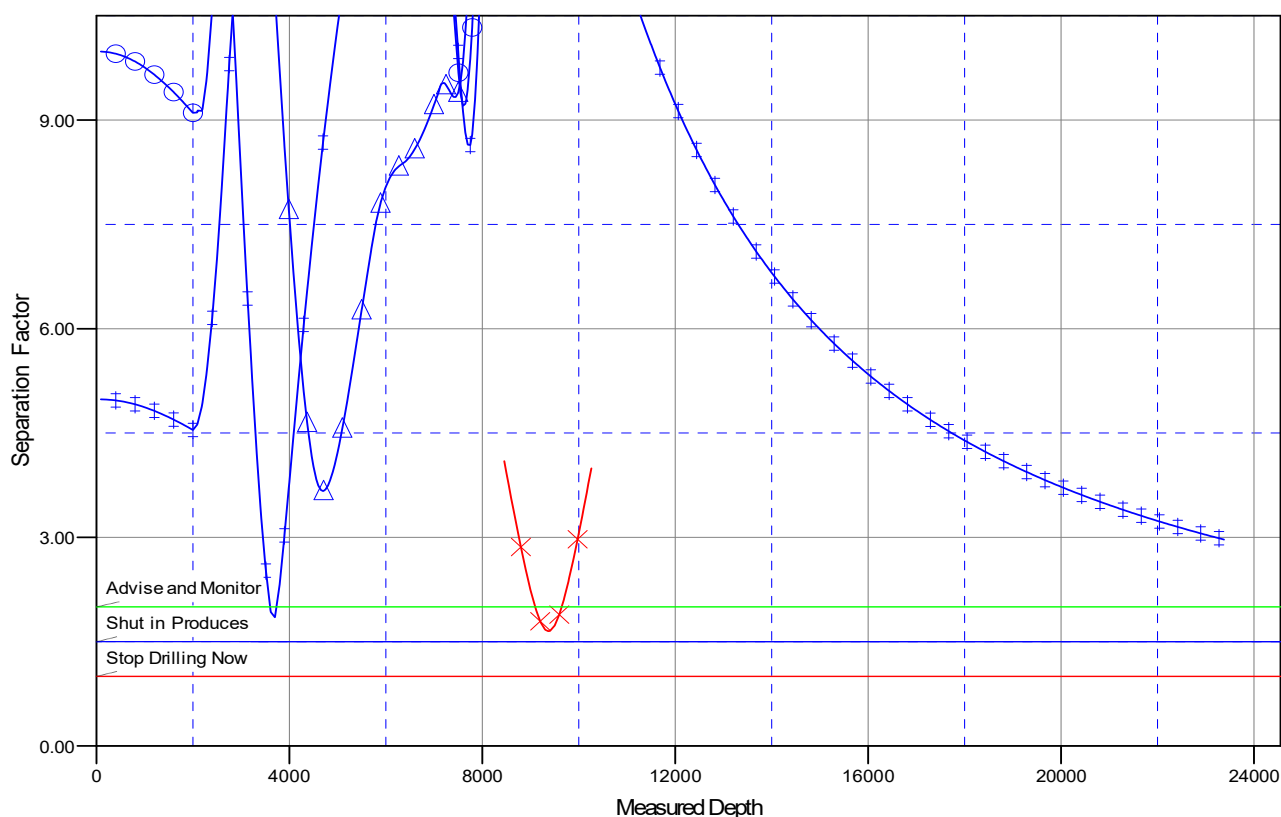
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM #502H

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

Grid Convergence at Surface is: 0.08°

Separation Factor Plot



LEGEND

*FLAMING SNAIL FED COM #501H, OWB, PWP0 V0
 *FLAMING SNAIL FED COM #502H, OWB, PWP0 V0
 *FLAMING SNAIL FED COM #503H, OWB, PWP0 V0
 *FLAMING SNAIL FED COM #504H, OWB, PWP0 V0

*FLAMING SNAIL FED COM #505H, OWB, PWP0 V0
 *FLAMING SNAIL FED COM #506H, OWB, PWP0 V0
 *FLAMING SNAIL FED COM #507H, OWB, PWP0 V0
 *FLAMING SNAIL FED COM #508H, OWB, PWP0 V0

FLAMING SNAIL FEDERAL COM #501H, OWB, PWP0 V0
 FLAMING SNAIL FEDERAL COM #502H, OWB, PWP0 V0
 LEONARDO BKL FEDERAL COM #1, OWB, AWP0 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 #502H

OWB

Plan: PWP0

Standard Planning Report

01 July, 2022

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Company:	DELAWARE BASIN WEST	TVD Reference:	*KB=30ft @ 3161.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*KB=30ft @ 3161.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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 #502H					
Well Position	+N/-S	-698.5 usft	Northing:	402,323.20 usft	Latitude:	32° 6' 21.675 N
	+E/-W	4,285.4 usft	Easting:	544,597.30 usft	Longitude:	104° 11' 21.490 W
Position Uncertainty		3.0 usft	Wellhead Elevation:		Ground Level:	3,131.6 usft

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	1/1/2023	6.85	59.71	47,408.76165874

Design	PWP0			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	182.53

Plan Survey Tool Program	Date	7/1/2022		
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks
1	0.0	2,000.0 PWP0 (OWB)	Standard Keeper 104	
			Standard Wireline Keeper ver 1	
2	2,000.0	7,093.1 PWP0 (OWB)	MWD+IFR1+MS	
			OWSG MWD + IFR1 + Multi-St	
3	7,093.1	23,377.4 PWP0 (OWB)	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 #502H
Company:	DELAWARE BASIN WEST	TVD Reference:	*KB=30ft @ 3161.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*KB=30ft @ 3161.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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	
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,725.1	14.50	323.86	2,717.4	73.7	-53.8	2.00	2.00	0.00	323.86	
5,695.0	14.50	323.86	5,592.6	674.3	-492.5	0.00	0.00	0.00	0.00	
6,420.1	0.00	0.00	6,310.0	748.0	-546.3	2.00	-2.00	0.00	180.00	
7,093.1	0.00	0.00	6,983.0	748.0	-546.3	0.00	0.00	0.00	0.00	
7,994.3	90.12	180.46	7,556.0	173.9	-550.9	10.00	10.00	-19.92	180.46	
23,327.3	90.12	180.46	7,525.1	-15,158.7	-672.8	0.00	0.00	0.00	0.00	
23,377.4	90.12	180.46	7,525.0	-15,208.7	-673.2	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Company:	DELAWARE BASIN WEST	TVD Reference:	*KB=30ft @ 3161.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*KB=30ft @ 3161.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
START BUILD 2.00									
2,100.0	2.00	323.86	2,100.0	1.4	-1.0	-1.4	2.00	2.00	0.00
2,200.0	4.00	323.86	2,199.8	5.6	-4.1	-5.4	2.00	2.00	0.00
2,300.0	6.00	323.86	2,299.5	12.7	-9.3	-12.3	2.00	2.00	0.00
2,400.0	8.00	323.86	2,398.7	22.5	-16.4	-21.8	2.00	2.00	0.00
2,500.0	10.00	323.86	2,497.5	35.1	-25.7	-34.0	2.00	2.00	0.00
2,600.0	12.00	323.86	2,595.6	50.6	-36.9	-48.9	2.00	2.00	0.00
2,700.0	14.00	323.86	2,693.1	68.7	-50.2	-66.4	2.00	2.00	0.00
2,725.1	14.50	323.86	2,717.4	73.7	-53.8	-71.3	2.00	2.00	0.00
START HOLD @ 2725.1 MD									
2,800.0	14.50	323.86	2,789.9	88.9	-64.9	-85.9	0.00	0.00	0.00
2,900.0	14.50	323.86	2,886.7	109.1	-79.7	-105.4	0.00	0.00	0.00
3,000.0	14.50	323.86	2,983.5	129.3	-94.4	-125.0	0.00	0.00	0.00
3,100.0	14.50	323.86	3,080.3	149.5	-109.2	-144.5	0.00	0.00	0.00
3,200.0	14.50	323.86	3,177.2	169.7	-124.0	-164.1	0.00	0.00	0.00
3,300.0	14.50	323.86	3,274.0	190.0	-138.7	-183.6	0.00	0.00	0.00
3,400.0	14.50	323.86	3,370.8	210.2	-153.5	-203.2	0.00	0.00	0.00
3,500.0	14.50	323.86	3,467.6	230.4	-168.3	-222.7	0.00	0.00	0.00
3,600.0	14.50	323.86	3,564.4	250.6	-183.1	-242.3	0.00	0.00	0.00
3,700.0	14.50	323.86	3,661.2	270.9	-197.8	-261.8	0.00	0.00	0.00
3,800.0	14.50	323.86	3,758.0	291.1	-212.6	-281.4	0.00	0.00	0.00
3,900.0	14.50	323.86	3,854.8	311.3	-227.4	-300.9	0.00	0.00	0.00
4,000.0	14.50	323.86	3,951.7	331.5	-242.1	-320.5	0.00	0.00	0.00
4,100.0	14.50	323.86	4,048.5	351.7	-256.9	-340.0	0.00	0.00	0.00
4,200.0	14.50	323.86	4,145.3	372.0	-271.7	-359.6	0.00	0.00	0.00
4,300.0	14.50	323.86	4,242.1	392.2	-286.4	-379.1	0.00	0.00	0.00
4,400.0	14.50	323.86	4,338.9	412.4	-301.2	-398.7	0.00	0.00	0.00
4,500.0	14.50	323.86	4,435.7	432.6	-316.0	-418.2	0.00	0.00	0.00
4,600.0	14.50	323.86	4,532.5	452.8	-330.7	-437.8	0.00	0.00	0.00
4,700.0	14.50	323.86	4,629.4	473.1	-345.5	-457.3	0.00	0.00	0.00
4,800.0	14.50	323.86	4,726.2	493.3	-360.3	-476.9	0.00	0.00	0.00
4,900.0	14.50	323.86	4,823.0	513.5	-375.1	-496.4	0.00	0.00	0.00
5,000.0	14.50	323.86	4,919.8	533.7	-389.8	-516.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Company:	DELAWARE BASIN WEST	TVD Reference:	*KB=30ft @ 3161.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*KB=30ft @ 3161.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,100.0	14.50	323.86	5,016.6	554.0	-404.6	-535.5	0.00	0.00	0.00
5,200.0	14.50	323.86	5,113.4	574.2	-419.4	-555.1	0.00	0.00	0.00
5,300.0	14.50	323.86	5,210.2	594.4	-434.1	-574.6	0.00	0.00	0.00
5,400.0	14.50	323.86	5,307.1	614.6	-448.9	-594.2	0.00	0.00	0.00
5,500.0	14.50	323.86	5,403.9	634.8	-463.7	-613.7	0.00	0.00	0.00
5,600.0	14.50	323.86	5,500.7	655.1	-478.4	-633.3	0.00	0.00	0.00
5,695.0	14.50	323.86	5,592.6	674.3	-492.5	-651.8	0.00	0.00	0.00
START DROP -2.00									
5,700.0	14.40	323.86	5,597.5	675.3	-493.2	-652.8	2.00	-2.00	0.00
5,800.0	12.40	323.86	5,694.8	694.0	-506.9	-670.9	2.00	-2.00	0.00
5,900.0	10.40	323.86	5,792.8	710.0	-518.5	-686.3	2.00	-2.00	0.00
6,000.0	8.40	323.86	5,891.4	723.2	-528.2	-699.1	2.00	-2.00	0.00
6,100.0	6.40	323.86	5,990.6	733.6	-535.8	-709.1	2.00	-2.00	0.00
6,200.0	4.40	323.86	6,090.2	741.2	-541.3	-716.5	2.00	-2.00	0.00
6,300.0	2.40	323.86	6,190.0	745.9	-544.8	-721.1	2.00	-2.00	0.00
6,400.0	0.40	323.86	6,289.9	747.9	-546.3	-723.0	2.00	-2.00	0.00
6,420.1	0.00	0.00	6,310.0	748.0	-546.3	-723.1	2.00	-2.00	0.00
START HOLD @ 6420.1 MD									
6,500.0	0.00	0.00	6,389.9	748.0	-546.3	-723.1	0.00	0.00	0.00
6,600.0	0.00	0.00	6,489.9	748.0	-546.3	-723.1	0.00	0.00	0.00
6,700.0	0.00	0.00	6,589.9	748.0	-546.3	-723.1	0.00	0.00	0.00
6,800.0	0.00	0.00	6,689.9	748.0	-546.3	-723.1	0.00	0.00	0.00
6,900.0	0.00	0.00	6,789.9	748.0	-546.3	-723.1	0.00	0.00	0.00
7,000.0	0.00	0.00	6,889.9	748.0	-546.3	-723.1	0.00	0.00	0.00
7,093.1	0.00	0.00	6,983.0	748.0	-546.3	-723.1	0.00	0.00	0.00
START DLS 10.00 TFO 180.46									
7,100.0	0.69	180.46	6,989.9	747.9	-546.3	-723.0	10.00	10.00	0.00
7,150.0	5.69	180.46	7,039.9	745.2	-546.3	-720.3	10.00	10.00	0.00
7,200.0	10.69	180.46	7,089.3	738.0	-546.4	-713.1	10.00	10.00	0.00
7,250.0	15.69	180.46	7,138.0	726.6	-546.5	-701.7	10.00	10.00	0.00
7,300.0	20.69	180.46	7,185.5	711.0	-546.6	-686.2	10.00	10.00	0.00
7,350.0	25.69	180.46	7,231.4	691.3	-546.8	-666.5	10.00	10.00	0.00
7,400.0	30.69	180.46	7,275.5	667.7	-546.9	-642.9	10.00	10.00	0.00
7,450.0	35.69	180.46	7,317.3	640.4	-547.2	-615.5	10.00	10.00	0.00
7,500.0	40.69	180.46	7,356.6	609.5	-547.4	-584.7	10.00	10.00	0.00
7,550.0	45.69	180.46	7,393.0	575.3	-547.7	-550.5	10.00	10.00	0.00
7,600.0	50.69	180.46	7,426.4	538.0	-548.0	-513.2	10.00	10.00	0.00
7,650.0	55.69	180.46	7,456.3	498.0	-548.3	-473.2	10.00	10.00	0.00
7,700.0	60.69	180.46	7,482.7	455.5	-548.6	-430.8	10.00	10.00	0.00
7,750.0	65.69	180.46	7,505.2	410.9	-549.0	-386.2	10.00	10.00	0.00
7,800.0	70.69	180.46	7,523.8	364.5	-549.3	-339.8	10.00	10.00	0.00
7,850.0	75.69	180.46	7,538.2	316.6	-549.7	-292.0	10.00	10.00	0.00
7,900.0	80.69	180.46	7,548.5	267.7	-550.1	-243.1	10.00	10.00	0.00
7,950.0	85.69	180.46	7,554.4	218.1	-550.5	-193.5	10.00	10.00	0.00
7,994.3	90.12	180.46	7,556.0	173.9	-550.9	-149.4	10.00	10.00	0.00
START HOLD @ 7994.3 MD									
8,000.0	90.12	180.46	7,556.0	168.1	-550.9	-143.6	0.00	0.00	0.00
8,100.0	90.12	180.46	7,555.8	68.1	-551.7	-43.7	0.00	0.00	0.00
8,200.0	90.12	180.46	7,555.6	-31.9	-552.5	56.3	0.00	0.00	0.00
8,300.0	90.12	180.46	7,555.4	-131.9	-553.3	156.2	0.00	0.00	0.00
8,400.0	90.12	180.46	7,555.2	-231.9	-554.1	256.1	0.00	0.00	0.00
8,500.0	90.12	180.46	7,555.0	-331.8	-554.9	356.1	0.00	0.00	0.00
8,600.0	90.12	180.46	7,554.8	-431.8	-555.7	456.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Company:	DELAWARE BASIN WEST	TVD Reference:	*KB=30ft @ 3161.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*KB=30ft @ 3161.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)
8,700.0	90.12	180.46	7,554.6	-531.8	-556.5	555.9	0.00	0.00	0.00
8,800.0	90.12	180.46	7,554.4	-631.8	-557.3	655.9	0.00	0.00	0.00
8,900.0	90.12	180.46	7,554.2	-731.8	-558.1	755.8	0.00	0.00	0.00
9,000.0	90.12	180.46	7,554.0	-831.8	-558.9	855.7	0.00	0.00	0.00
9,100.0	90.12	180.46	7,553.8	-931.8	-559.7	955.7	0.00	0.00	0.00
9,200.0	90.12	180.46	7,553.6	-1,031.8	-560.5	1,055.6	0.00	0.00	0.00
9,300.0	90.12	180.46	7,553.4	-1,131.8	-561.2	1,155.5	0.00	0.00	0.00
9,400.0	90.12	180.46	7,553.2	-1,231.8	-562.0	1,255.5	0.00	0.00	0.00
9,500.0	90.12	180.46	7,553.0	-1,331.8	-562.8	1,355.4	0.00	0.00	0.00
9,600.0	90.12	180.46	7,552.8	-1,431.8	-563.6	1,455.3	0.00	0.00	0.00
9,700.0	90.12	180.46	7,552.6	-1,531.8	-564.4	1,555.3	0.00	0.00	0.00
9,800.0	90.12	180.46	7,552.4	-1,631.8	-565.2	1,655.2	0.00	0.00	0.00
9,900.0	90.12	180.46	7,552.2	-1,731.8	-566.0	1,755.1	0.00	0.00	0.00
10,000.0	90.12	180.46	7,552.0	-1,831.8	-566.8	1,855.1	0.00	0.00	0.00
10,100.0	90.12	180.46	7,551.8	-1,931.8	-567.6	1,955.0	0.00	0.00	0.00
10,200.0	90.12	180.46	7,551.6	-2,031.8	-568.4	2,054.9	0.00	0.00	0.00
10,300.0	90.12	180.46	7,551.4	-2,131.8	-569.2	2,154.9	0.00	0.00	0.00
10,400.0	90.12	180.46	7,551.2	-2,231.8	-570.0	2,254.8	0.00	0.00	0.00
10,500.0	90.12	180.46	7,551.0	-2,331.8	-570.8	2,354.7	0.00	0.00	0.00
10,600.0	90.12	180.46	7,550.7	-2,431.8	-571.6	2,454.7	0.00	0.00	0.00
10,700.0	90.12	180.46	7,550.5	-2,531.8	-572.4	2,554.6	0.00	0.00	0.00
10,800.0	90.12	180.46	7,550.3	-2,631.8	-573.2	2,654.5	0.00	0.00	0.00
10,900.0	90.12	180.46	7,550.1	-2,731.8	-574.0	2,754.5	0.00	0.00	0.00
11,000.0	90.12	180.46	7,549.9	-2,831.8	-574.8	2,854.4	0.00	0.00	0.00
11,100.0	90.12	180.46	7,549.7	-2,931.8	-575.6	2,954.3	0.00	0.00	0.00
11,200.0	90.12	180.46	7,549.5	-3,031.8	-576.4	3,054.3	0.00	0.00	0.00
11,300.0	90.12	180.46	7,549.3	-3,131.8	-577.2	3,154.2	0.00	0.00	0.00
11,400.0	90.12	180.46	7,549.1	-3,231.8	-577.9	3,254.1	0.00	0.00	0.00
11,500.0	90.12	180.46	7,548.9	-3,331.7	-578.7	3,354.1	0.00	0.00	0.00
11,600.0	90.12	180.46	7,548.7	-3,431.7	-579.5	3,454.0	0.00	0.00	0.00
11,700.0	90.12	180.46	7,548.5	-3,531.7	-580.3	3,554.0	0.00	0.00	0.00
11,800.0	90.12	180.46	7,548.3	-3,631.7	-581.1	3,653.9	0.00	0.00	0.00
11,900.0	90.12	180.46	7,548.1	-3,731.7	-581.9	3,753.8	0.00	0.00	0.00
12,000.0	90.12	180.46	7,547.9	-3,831.7	-582.7	3,853.8	0.00	0.00	0.00
12,100.0	90.12	180.46	7,547.7	-3,931.7	-583.5	3,953.7	0.00	0.00	0.00
12,200.0	90.12	180.46	7,547.5	-4,031.7	-584.3	4,053.6	0.00	0.00	0.00
12,300.0	90.12	180.46	7,547.3	-4,131.7	-585.1	4,153.6	0.00	0.00	0.00
12,400.0	90.12	180.46	7,547.1	-4,231.7	-585.9	4,253.5	0.00	0.00	0.00
12,500.0	90.12	180.46	7,546.9	-4,331.7	-586.7	4,353.4	0.00	0.00	0.00
12,600.0	90.12	180.46	7,546.7	-4,431.7	-587.5	4,453.4	0.00	0.00	0.00
12,700.0	90.12	180.46	7,546.5	-4,531.7	-588.3	4,553.3	0.00	0.00	0.00
12,800.0	90.12	180.46	7,546.3	-4,631.7	-589.1	4,653.2	0.00	0.00	0.00
12,900.0	90.12	180.46	7,546.1	-4,731.7	-589.9	4,753.2	0.00	0.00	0.00
13,000.0	90.12	180.46	7,545.9	-4,831.7	-590.7	4,853.1	0.00	0.00	0.00
13,100.0	90.12	180.46	7,545.7	-4,931.7	-591.5	4,953.0	0.00	0.00	0.00
13,200.0	90.12	180.46	7,545.5	-5,031.7	-592.3	5,053.0	0.00	0.00	0.00
13,300.0	90.12	180.46	7,545.3	-5,131.7	-593.1	5,152.9	0.00	0.00	0.00
13,400.0	90.12	180.46	7,545.1	-5,231.7	-593.9	5,252.8	0.00	0.00	0.00
13,500.0	90.12	180.46	7,544.9	-5,331.7	-594.6	5,352.8	0.00	0.00	0.00
13,600.0	90.12	180.46	7,544.7	-5,431.7	-595.4	5,452.7	0.00	0.00	0.00
13,700.0	90.12	180.46	7,544.5	-5,531.7	-596.2	5,552.6	0.00	0.00	0.00
13,800.0	90.12	180.46	7,544.3	-5,631.7	-597.0	5,652.6	0.00	0.00	0.00
13,900.0	90.12	180.46	7,544.1	-5,731.7	-597.8	5,752.5	0.00	0.00	0.00
14,000.0	90.12	180.46	7,543.9	-5,831.7	-598.6	5,852.4	0.00	0.00	0.00

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Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Company:	DELAWARE BASIN WEST	TVD Reference:	*KB=30ft @ 3161.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*KB=30ft @ 3161.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)	
14,100.0	90.12	180.46	7,543.7	-5,931.7	-599.4	5,952.4	0.00	0.00	0.00	
14,200.0	90.12	180.46	7,543.5	-6,031.7	-600.2	6,052.3	0.00	0.00	0.00	
14,300.0	90.12	180.46	7,543.3	-6,131.7	-601.0	6,152.2	0.00	0.00	0.00	
14,400.0	90.12	180.46	7,543.1	-6,231.7	-601.8	6,252.2	0.00	0.00	0.00	
14,500.0	90.12	180.46	7,542.9	-6,331.6	-602.6	6,352.1	0.00	0.00	0.00	
14,600.0	90.12	180.46	7,542.7	-6,431.6	-603.4	6,452.0	0.00	0.00	0.00	
14,700.0	90.12	180.46	7,542.5	-6,531.6	-604.2	6,552.0	0.00	0.00	0.00	
14,800.0	90.12	180.46	7,542.3	-6,631.6	-605.0	6,651.9	0.00	0.00	0.00	
14,900.0	90.12	180.46	7,542.1	-6,731.6	-605.8	6,751.8	0.00	0.00	0.00	
15,000.0	90.12	180.46	7,541.9	-6,831.6	-606.6	6,851.8	0.00	0.00	0.00	
15,100.0	90.12	180.46	7,541.7	-6,931.6	-607.4	6,951.7	0.00	0.00	0.00	
15,200.0	90.12	180.46	7,541.5	-7,031.6	-608.2	7,051.6	0.00	0.00	0.00	
15,300.0	90.12	180.46	7,541.3	-7,131.6	-609.0	7,151.6	0.00	0.00	0.00	
15,400.0	90.12	180.46	7,541.1	-7,231.6	-609.8	7,251.5	0.00	0.00	0.00	
15,500.0	90.12	180.46	7,540.9	-7,331.6	-610.6	7,351.4	0.00	0.00	0.00	
15,600.0	90.12	180.46	7,540.7	-7,431.6	-611.3	7,451.4	0.00	0.00	0.00	
15,700.0	90.12	180.46	7,540.5	-7,531.6	-612.1	7,551.3	0.00	0.00	0.00	
15,800.0	90.12	180.46	7,540.3	-7,631.6	-612.9	7,651.2	0.00	0.00	0.00	
15,900.0	90.12	180.46	7,540.1	-7,731.6	-613.7	7,751.2	0.00	0.00	0.00	
16,000.0	90.12	180.46	7,539.9	-7,831.6	-614.5	7,851.1	0.00	0.00	0.00	
16,100.0	90.12	180.46	7,539.7	-7,931.6	-615.3	7,951.0	0.00	0.00	0.00	
16,200.0	90.12	180.46	7,539.5	-8,031.6	-616.1	8,051.0	0.00	0.00	0.00	
16,300.0	90.12	180.46	7,539.3	-8,131.6	-616.9	8,150.9	0.00	0.00	0.00	
16,400.0	90.12	180.46	7,539.1	-8,231.6	-617.7	8,250.8	0.00	0.00	0.00	
16,500.0	90.12	180.46	7,538.9	-8,331.6	-618.5	8,350.8	0.00	0.00	0.00	
16,600.0	90.12	180.46	7,538.7	-8,431.6	-619.3	8,450.7	0.00	0.00	0.00	
16,700.0	90.12	180.46	7,538.5	-8,531.6	-620.1	8,550.6	0.00	0.00	0.00	
16,800.0	90.12	180.46	7,538.3	-8,631.6	-620.9	8,650.6	0.00	0.00	0.00	
16,900.0	90.12	180.46	7,538.1	-8,731.6	-621.7	8,750.5	0.00	0.00	0.00	
17,000.0	90.12	180.46	7,537.9	-8,831.6	-622.5	8,850.5	0.00	0.00	0.00	
17,100.0	90.12	180.46	7,537.6	-8,931.6	-623.3	8,950.4	0.00	0.00	0.00	
17,200.0	90.12	180.46	7,537.4	-9,031.6	-624.1	9,050.3	0.00	0.00	0.00	
17,300.0	90.12	180.46	7,537.2	-9,131.6	-624.9	9,150.3	0.00	0.00	0.00	
17,400.0	90.12	180.46	7,537.0	-9,231.6	-625.7	9,250.2	0.00	0.00	0.00	
17,500.0	90.12	180.46	7,536.8	-9,331.5	-626.5	9,350.1	0.00	0.00	0.00	
17,600.0	90.12	180.46	7,536.6	-9,431.5	-627.3	9,450.1	0.00	0.00	0.00	
17,700.0	90.12	180.46	7,536.4	-9,531.5	-628.0	9,550.0	0.00	0.00	0.00	
17,800.0	90.12	180.46	7,536.2	-9,631.5	-628.8	9,649.9	0.00	0.00	0.00	
17,900.0	90.12	180.46	7,536.0	-9,731.5	-629.6	9,749.9	0.00	0.00	0.00	
18,000.0	90.12	180.46	7,535.8	-9,831.5	-630.4	9,849.8	0.00	0.00	0.00	
18,100.0	90.12	180.46	7,535.6	-9,931.5	-631.2	9,949.7	0.00	0.00	0.00	
18,200.0	90.12	180.46	7,535.4	-10,031.5	-632.0	10,049.7	0.00	0.00	0.00	
18,300.0	90.12	180.46	7,535.2	-10,131.5	-632.8	10,149.6	0.00	0.00	0.00	
18,400.0	90.12	180.46	7,535.0	-10,231.5	-633.6	10,249.5	0.00	0.00	0.00	
18,500.0	90.12	180.46	7,534.8	-10,331.5	-634.4	10,349.5	0.00	0.00	0.00	
18,600.0	90.12	180.46	7,534.6	-10,431.5	-635.2	10,449.4	0.00	0.00	0.00	
18,700.0	90.12	180.46	7,534.4	-10,531.5	-636.0	10,549.3	0.00	0.00	0.00	
18,800.0	90.12	180.46	7,534.2	-10,631.5	-636.8	10,649.3	0.00	0.00	0.00	
18,900.0	90.12	180.46	7,534.0	-10,731.5	-637.6	10,749.2	0.00	0.00	0.00	
19,000.0	90.12	180.46	7,533.8	-10,831.5	-638.4	10,849.1	0.00	0.00	0.00	
19,100.0	90.12	180.46	7,533.6	-10,931.5	-639.2	10,949.1	0.00	0.00	0.00	
19,200.0	90.12	180.46	7,533.4	-11,031.5	-640.0	11,049.0	0.00	0.00	0.00	
19,300.0	90.12	180.46	7,533.2	-11,131.5	-640.8	11,148.9	0.00	0.00	0.00	
19,400.0	90.12	180.46	7,533.0	-11,231.5	-641.6	11,248.9	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Company:	DELAWARE BASIN WEST	TVD Reference:	*KB=30ft @ 3161.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*KB=30ft @ 3161.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

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)
19,500.0	90.12	180.46	7,532.8	-11,331.5	-642.4	11,348.8	0.00	0.00	0.00
19,600.0	90.12	180.46	7,532.6	-11,431.5	-643.2	11,448.7	0.00	0.00	0.00
19,700.0	90.12	180.46	7,532.4	-11,531.5	-644.0	11,548.7	0.00	0.00	0.00
19,800.0	90.12	180.46	7,532.2	-11,631.5	-644.7	11,648.6	0.00	0.00	0.00
19,900.0	90.12	180.46	7,532.0	-11,731.5	-645.5	11,748.5	0.00	0.00	0.00
20,000.0	90.12	180.46	7,531.8	-11,831.5	-646.3	11,848.5	0.00	0.00	0.00
20,100.0	90.12	180.46	7,531.6	-11,931.5	-647.1	11,948.4	0.00	0.00	0.00
20,200.0	90.12	180.46	7,531.4	-12,031.5	-647.9	12,048.3	0.00	0.00	0.00
20,300.0	90.12	180.46	7,531.2	-12,131.5	-648.7	12,148.3	0.00	0.00	0.00
20,400.0	90.12	180.46	7,531.0	-12,231.4	-649.5	12,248.2	0.00	0.00	0.00
20,500.0	90.12	180.46	7,530.8	-12,331.4	-650.3	12,348.1	0.00	0.00	0.00
20,600.0	90.12	180.46	7,530.6	-12,431.4	-651.1	12,448.1	0.00	0.00	0.00
20,700.0	90.12	180.46	7,530.4	-12,531.4	-651.9	12,548.0	0.00	0.00	0.00
20,800.0	90.12	180.46	7,530.2	-12,631.4	-652.7	12,647.9	0.00	0.00	0.00
20,900.0	90.12	180.46	7,530.0	-12,731.4	-653.5	12,747.9	0.00	0.00	0.00
21,000.0	90.12	180.46	7,529.8	-12,831.4	-654.3	12,847.8	0.00	0.00	0.00
21,100.0	90.12	180.46	7,529.6	-12,931.4	-655.1	12,947.7	0.00	0.00	0.00
21,200.0	90.12	180.46	7,529.4	-13,031.4	-655.9	13,047.7	0.00	0.00	0.00
21,300.0	90.12	180.46	7,529.2	-13,131.4	-656.7	13,147.6	0.00	0.00	0.00
21,400.0	90.12	180.46	7,529.0	-13,231.4	-657.5	13,247.5	0.00	0.00	0.00
21,500.0	90.12	180.46	7,528.8	-13,331.4	-658.3	13,347.5	0.00	0.00	0.00
21,600.0	90.12	180.46	7,528.6	-13,431.4	-659.1	13,447.4	0.00	0.00	0.00
21,700.0	90.12	180.46	7,528.4	-13,531.4	-659.9	13,547.3	0.00	0.00	0.00
21,800.0	90.12	180.46	7,528.2	-13,631.4	-660.7	13,647.3	0.00	0.00	0.00
21,900.0	90.12	180.46	7,528.0	-13,731.4	-661.4	13,747.2	0.00	0.00	0.00
22,000.0	90.12	180.46	7,527.8	-13,831.4	-662.2	13,847.2	0.00	0.00	0.00
22,100.0	90.12	180.46	7,527.6	-13,931.4	-663.0	13,947.1	0.00	0.00	0.00
22,200.0	90.12	180.46	7,527.4	-14,031.4	-663.8	14,047.0	0.00	0.00	0.00
22,300.0	90.12	180.46	7,527.2	-14,131.4	-664.6	14,147.0	0.00	0.00	0.00
22,400.0	90.12	180.46	7,527.0	-14,231.4	-665.4	14,246.9	0.00	0.00	0.00
22,500.0	90.12	180.46	7,526.8	-14,331.4	-666.2	14,346.8	0.00	0.00	0.00
22,600.0	90.12	180.46	7,526.6	-14,431.4	-667.0	14,446.8	0.00	0.00	0.00
22,700.0	90.12	180.46	7,526.4	-14,531.4	-667.8	14,546.7	0.00	0.00	0.00
22,800.0	90.12	180.46	7,526.2	-14,631.4	-668.6	14,646.6	0.00	0.00	0.00
22,900.0	90.12	180.46	7,526.0	-14,731.4	-669.4	14,746.6	0.00	0.00	0.00
23,000.0	90.12	180.46	7,525.8	-14,831.4	-670.2	14,846.5	0.00	0.00	0.00
23,100.0	90.12	180.46	7,525.6	-14,931.4	-671.0	14,946.4	0.00	0.00	0.00
23,200.0	90.12	180.46	7,525.4	-15,031.4	-671.8	15,046.4	0.00	0.00	0.00
23,300.0	90.12	180.46	7,525.2	-15,131.4	-672.6	15,146.3	0.00	0.00	0.00
23,327.3	90.12	180.46	7,525.1	-15,158.7	-672.8	15,173.6	0.00	0.00	0.00
START HOLD @ 23327.3 MD									
23,377.4	90.12	180.46	7,525.0	-15,208.7	-673.2	15,223.6	0.00	0.00	0.00
TD @ 23377.4 MD									

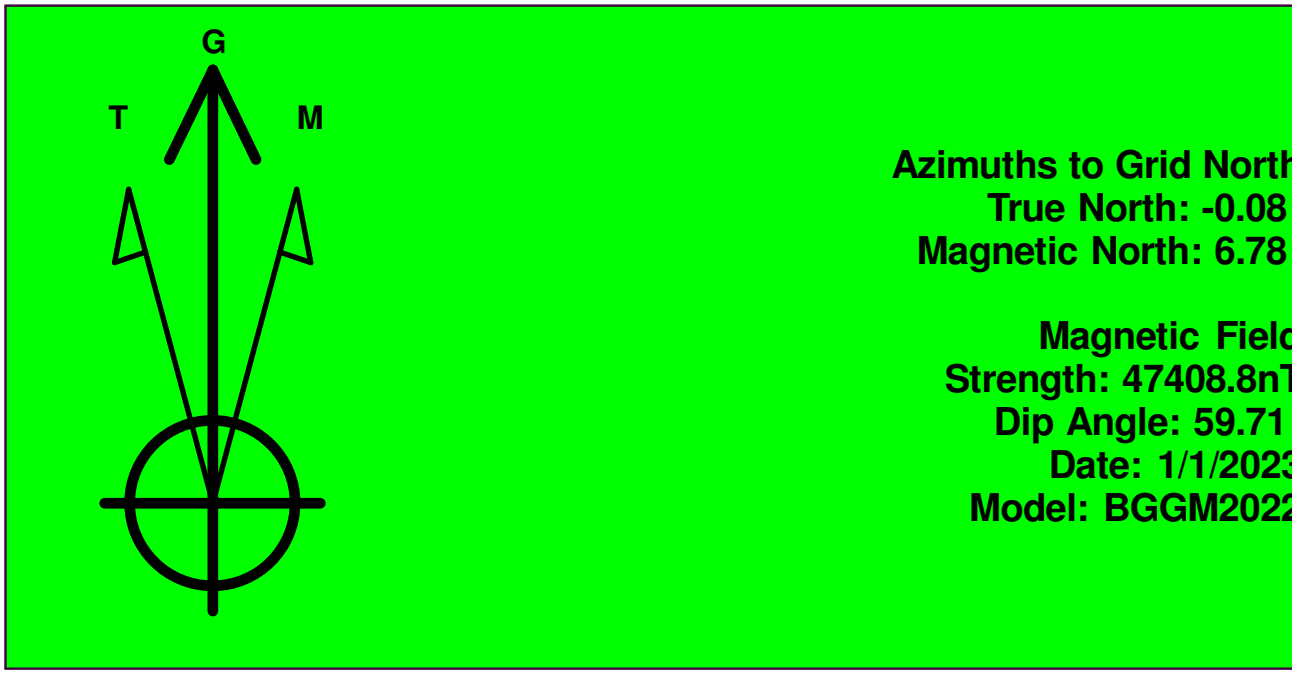
ConocoPhillips

Planning Report

Database:	EDT 15 Central Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM #502H
Company:	DELAWARE BASIN WEST	TVD Reference:	*KB=30ft @ 3161.6usft
Project:	ATLAS PROSPECT (NM-E)	MD Reference:	*KB=30ft @ 3161.6usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM #502H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
VT (FLAMING SNAIL FE - plan hits target center - Point	0.00	0.00	6,983.0	748.0	-546.3	403,071.17	544,051.00	32° 6' 29.084 N	104° 11' 27.830 W
PBHL (FLAMING SNAIL - plan hits target center - Rectangle (sides W100.0 H15,904.7 D20.0)	0.12	0.46	7,525.0	-15,208.7	-673.2	387,114.50	543,924.10	32° 3' 51.170 N	104° 11' 29.549 W
LTP (FLAMING SNAIL F - plan hits target center - Point	0.00	0.00	7,525.1	-15,158.7	-672.8	387,164.50	543,924.50	32° 3' 51.664 N	104° 11' 29.544 W
FTP (FLAMING SNAIL F - plan misses target center by 202.0usft at 7569.8usft MD (7406.6 TVD, 560.9 N, -547.8 E) - Circle (radius 50.0)	0.00	0.00	7,557.1	695.5	-546.3	403,018.70	544,051.00	32° 6' 28.565 N	104° 11' 27.831 W

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
2,000.0	2,000.0	0.0	0.0	START BUILD 2.00	
2,725.1	2,717.4	73.7	-53.8	START HOLD @ 2725.1 MD	
5,695.0	5,592.6	674.3	-492.5	START DROP -2.00	
6,420.1	6,310.0	748.0	-546.3	START HOLD @ 6420.1 MD	
7,093.1	6,983.0	748.0	-546.3	START DLS 10.00 TFO 180.46	
7,994.3	7,556.0	173.9	-550.9	START HOLD @ 7994.3 MD	
23,327.3	7,525.1	-15,158.7	-672.8	START HOLD @ 23327.3 MD	
23,377.4	7,525.0	-15,208.7	-673.2	TD @ 23377.4 MD	



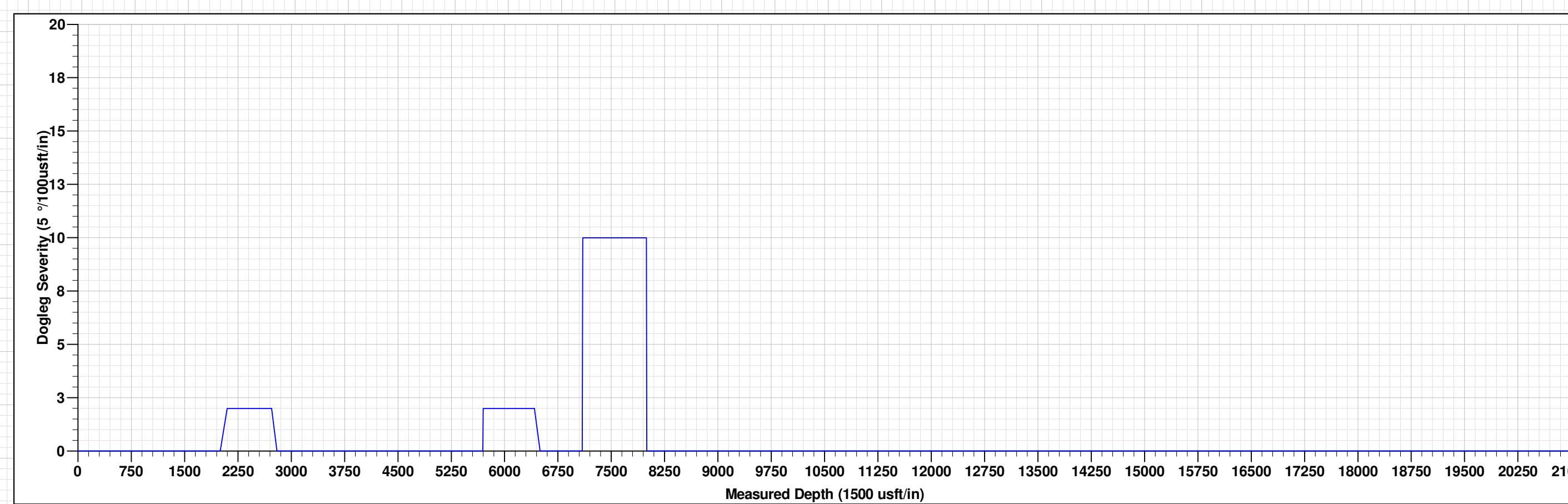
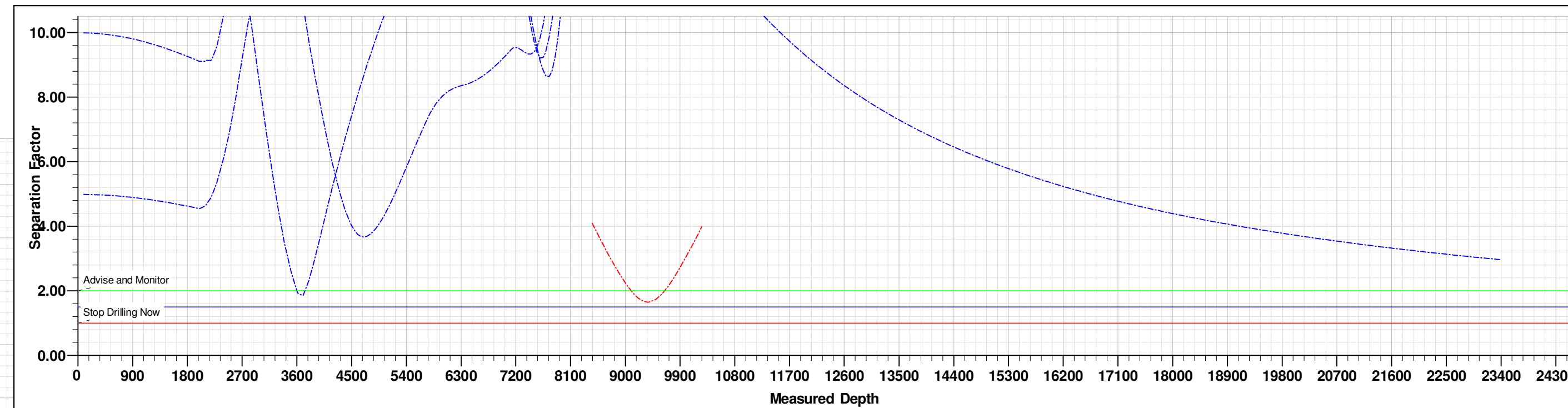
Project: ATLAS PROSPECT (NM-E)
Site: FLAMING SNAIL FED COM PROJECT
Well: FLAMING SNAIL FEDERAL COM #502H
Wellbore: OWB
Design: PWP0
GL: 3131.6
*KB=30ft @ 3161.6usft

WELL DETAILS: FLAMING SNAIL FEDERAL COM #502H

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	402323.20	544597.30	32° 6' 21.675 N	104° 11' 21.490 W

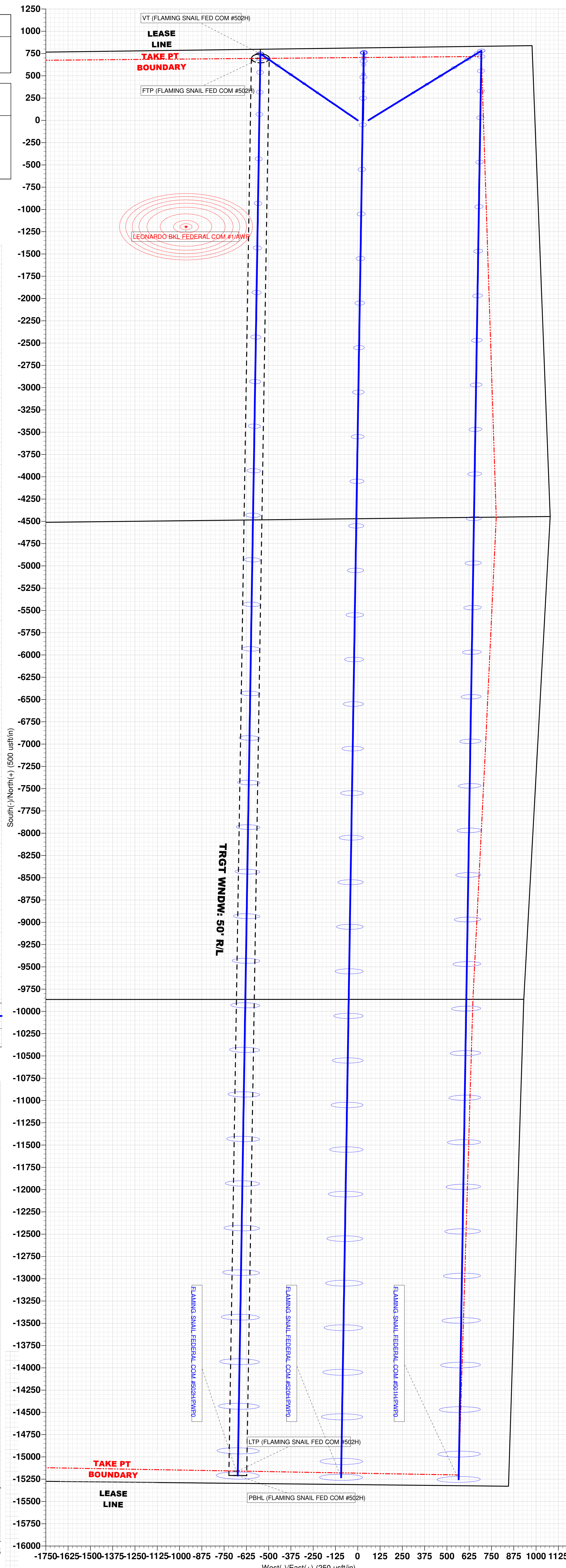
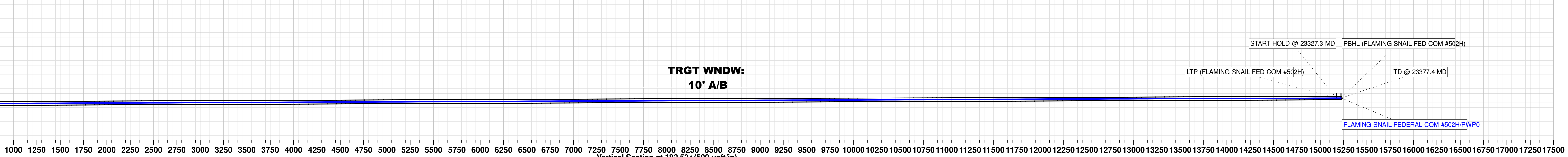
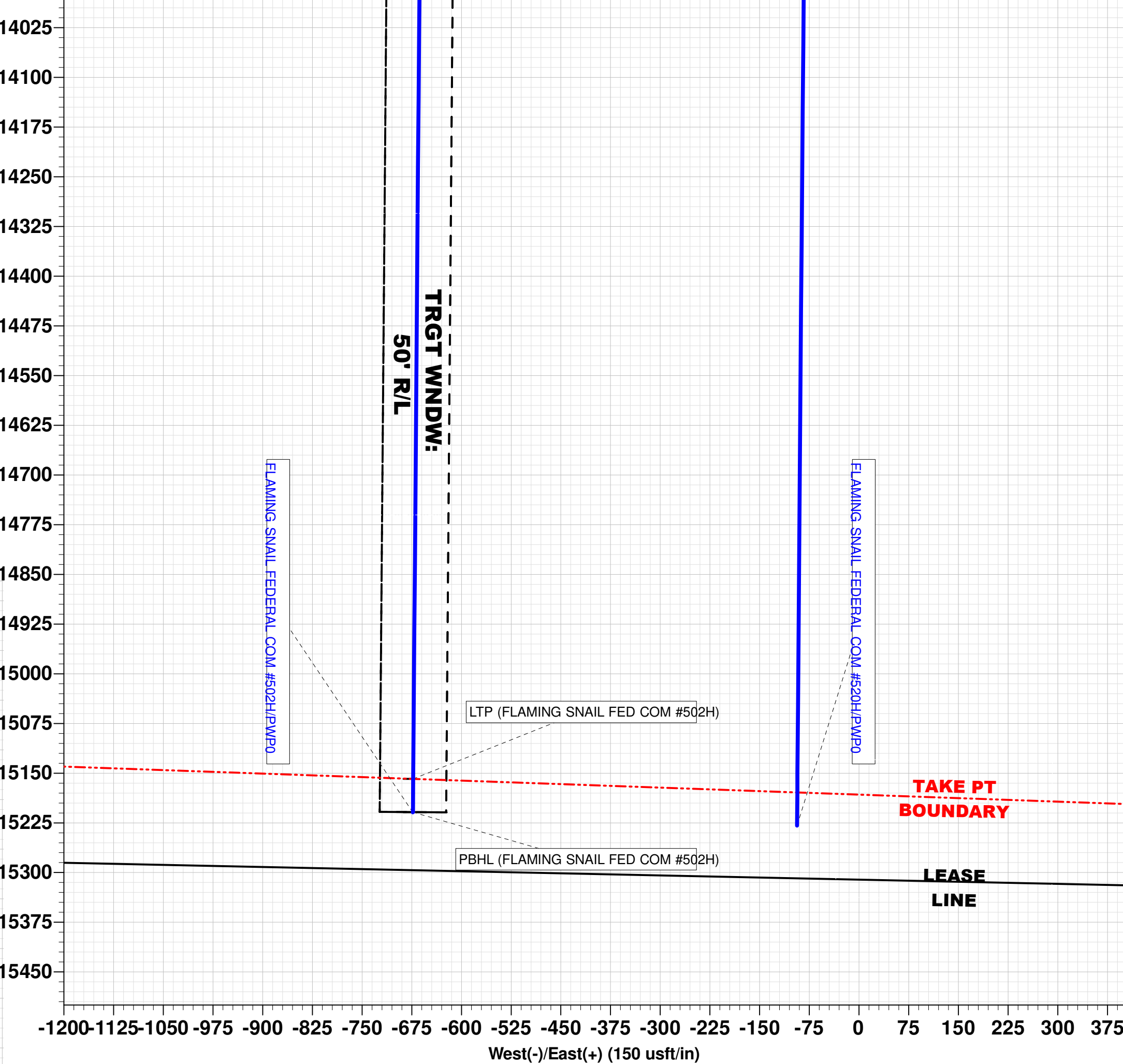
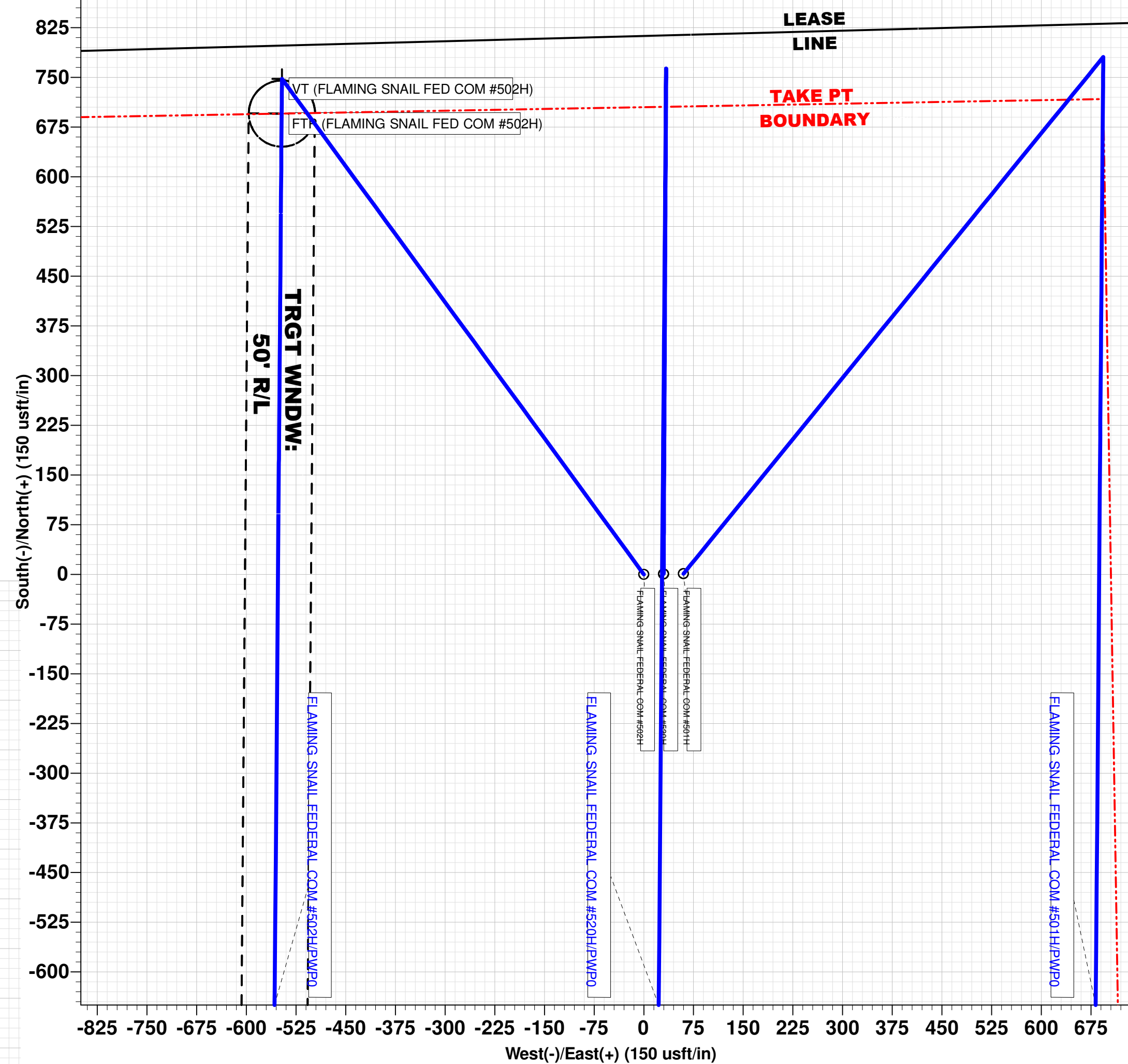
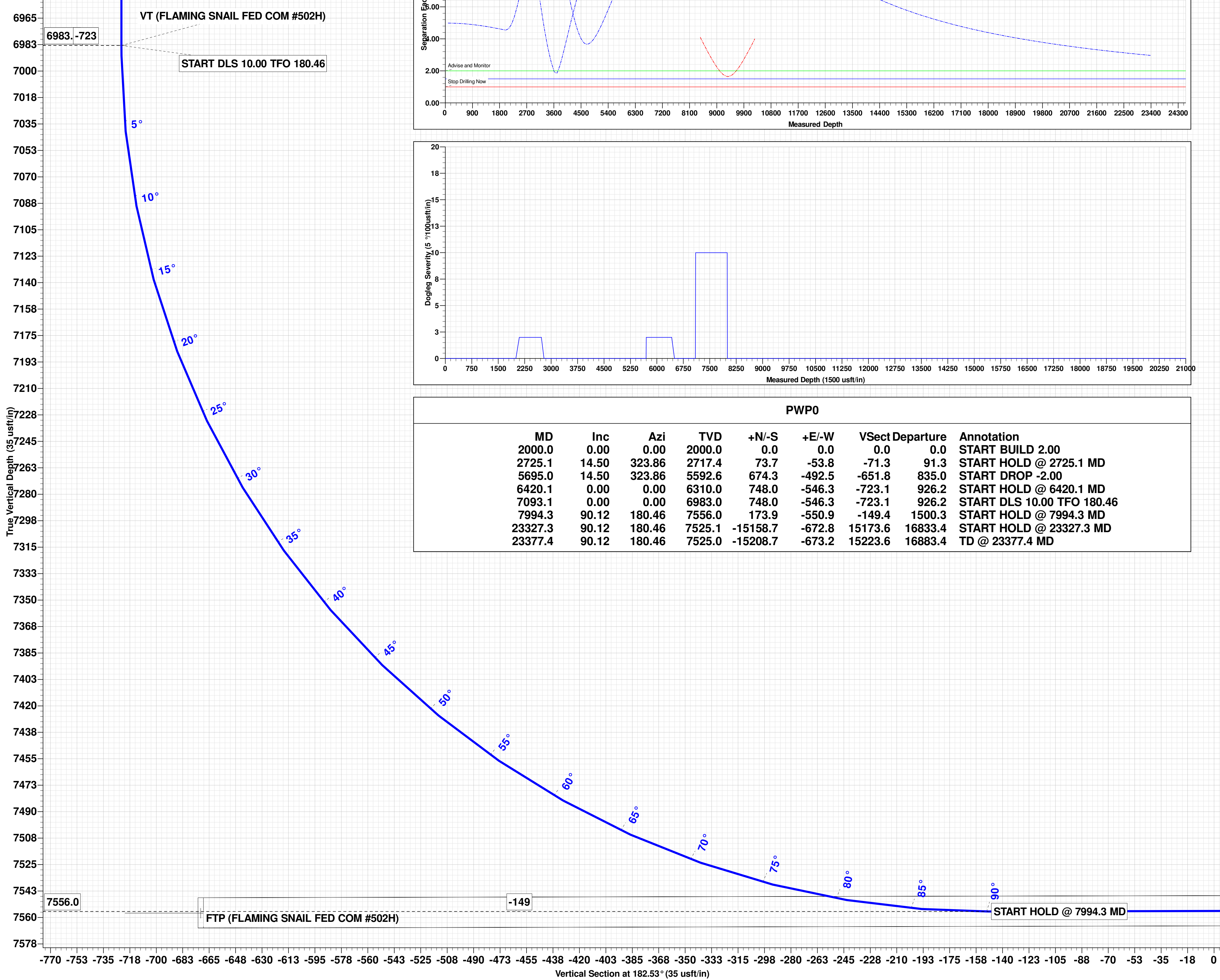
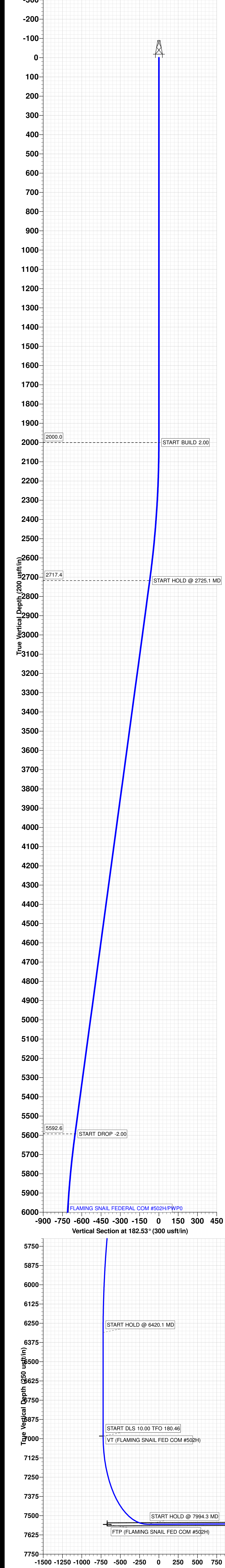
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
VT (FLAMING SNAIL FED COM #502H)	6983.0	748.0	-546.3	403071.17	544051.00	Point
PBHL (FLAMING SNAIL FED COM #502H)	7525.0	-15208.7	-673.2	387114.50	543924.10	Rectangle (Sides: L15904.7 W100.0)
LTP (FLAMING SNAIL FED COM #502H)	7525.1	-15158.7	-672.8	387164.50	543924.50	Point
FTP (FLAMING SNAIL FED COM #502H)	7557.1	695.5	-546.3	403018.70	544051.00	Circle (Radius: 50.0)



PWP0

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
2000.0	0.00	0.00	2000.0	0.0	0.0	0.0	0.0	START BUILD 2.00
2725.1	14.50	323.86	2717.4	73.7	-53.8	-71.3	91.3	START HOLD @ 2725.1 MD
5695.0	14.50	323.86	5592.6	674.3	-492.5	-651.8	835.0	START DROP -2.00
6420.1	0.00	0.00	6310.0	748.0	-546.3	-723.1	926.2	START HOLD @ 6420.1 MD
7093.1	0.00	0.00	6983.0	748.0	-546.3	-723.1	926.2	START DLS 10.00 TFO 180.46
7994.3	90.12	180.46	7556.0	173.9	-550.9	-149.4	1500.3	START HOLD @ 7994.3 MD
23327.3	90.12	180.46	7525.1	-15158.7	-672.8	15173.6	16833.4	START HOLD @ 23327.3 MD
23377.4	90.12	180.46	7525.0	-673.2	15223.6	16883.4		TD @ 23377.4 MD



TRGT WNDW:
10' A/B

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG
LEASE NO.:	NMNM092167
LOCATION:	Section 28, T.25 S., R.27 E., NMPM
COUNTY:	Eddy County, New Mexico

WELL NAME & NO.:	Flaming Snail Fed Com 502H
SURFACE HOLE FOOTAGE:	805'/N & 1035'/E
BOTTOM HOLE FOOTAGE:	50'/S & 1570'/E

COA

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

A. HYDROGEN SULFIDE

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

B. CASING

1. The 13-3/8 inch surface casing shall be set at approximately **350** feet (a minimum of **70 feet (Eddy County)** into the Rustler Anhydrite and above the salt) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8**

- hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
- c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the 9-5/8 inch intermediate casing is:
- Cement to surface. If cement does not circulate see B.1.a, c-d above.
- Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst.**
- ❖ 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. **Excess calculates to 23%. Additional cement maybe required.**

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.

Option 1:

- a. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **2000 (2M) psi**.
- b. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the intermediate casing shoe shall be **3000 (3M) psi**.

Option 2:

1. Operator has proposed a multi-bowl wellhead assembly. This assembly will only be tested when installed on the surface casing. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the surface casing shoe shall be **3000 (3M) psi**. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.

- a. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
- b. Manufacturer representative shall install the test plug for the initial BOP test.
- c. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
- d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.

D. SPECIAL REQUIREMENT (S)

Communitization Agreement

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

GENERAL REQUIREMENTS

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

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

☒ Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,
(575) 361-2822

☒ Lea County

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

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

A. CASING

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

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

B. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. If a variance is approved for a flexible hose to be installed from the BOP to the choke manifold, the following requirements apply: The flex line must meet the requirements of API 16C. Check condition of flexible line from BOP to choke manifold, replace if exterior is damaged or if line fails test. Line to be as straight as possible with no hard bends and is to be anchored according to Manufacturer's requirements. The flexible hose can be exchanged with a hose of equal size and equal or greater pressure rating. Anchor requirements, specification sheet and hydrostatic pressure test certification matching the hose in service, to be onsite for review. These documents shall be posted in the company man's trailer and on the rig floor.

3. 5M or higher system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.
4. If the operator has proposed a multi-bowl wellhead assembly in the APD. The following requirements must be met:
 - a. Wellhead shall be installed by manufacturer's representatives, submit documentation with subsequent sundry.
 - b. If the welding is performed by a third party, the manufacturer's representative shall monitor the temperature to verify that it does not exceed the maximum temperature of the seal.
 - c. Manufacturer representative shall install the test plug for the initial BOP test.
 - d. Whenever any seal subject to test pressure is broken, all the tests in OOGO2.III.A.2.i must be followed.
 - e. If the cement does not circulate and one inch operations would have been possible with a standard wellhead, the well head shall be cut off, cementing operations performed and another wellhead installed.
5. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. In a water basin, for all casing strings utilizing slips, these are to be set as soon as the crew and rig are ready and any fallback cement remediation has been done. The casing cut-off and BOP installation can be initiated four hours after installing the slips, which will be approximately six hours after bumping the plug. For those casing strings not using slips, the minimum wait time before cut-off is eight hours after bumping the plug. BOP/BOPE testing can begin after cut-off or once cement reaches 500 psi compressive strength (including lead when specified), 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 plug. However, **no tests** shall commence until the cement has had a minimum of 24 hours setup time, except the casing pressure test can be initiated immediately after bumping the plug (only applies to single stage cement jobs).
 - c. The tests shall be done by an independent service company utilizing a test plug not a cup or J-packer. The operator also has the option of utilizing an

independent tester to test without a plug (i.e. against the casing) pursuant to Onshore Order 2 with the pressure not to exceed 70% of the burst rating for the casing. Any test against the casing must meet the WOC time for water basin (8 hours) or potash (24 hours) or 500 pounds compressive strength, whichever is greater, prior to initiating the test (see casing segment as lead cement may be critical item).

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

C. DRILLING MUD

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

D. WASTE MATERIAL AND FLUIDS

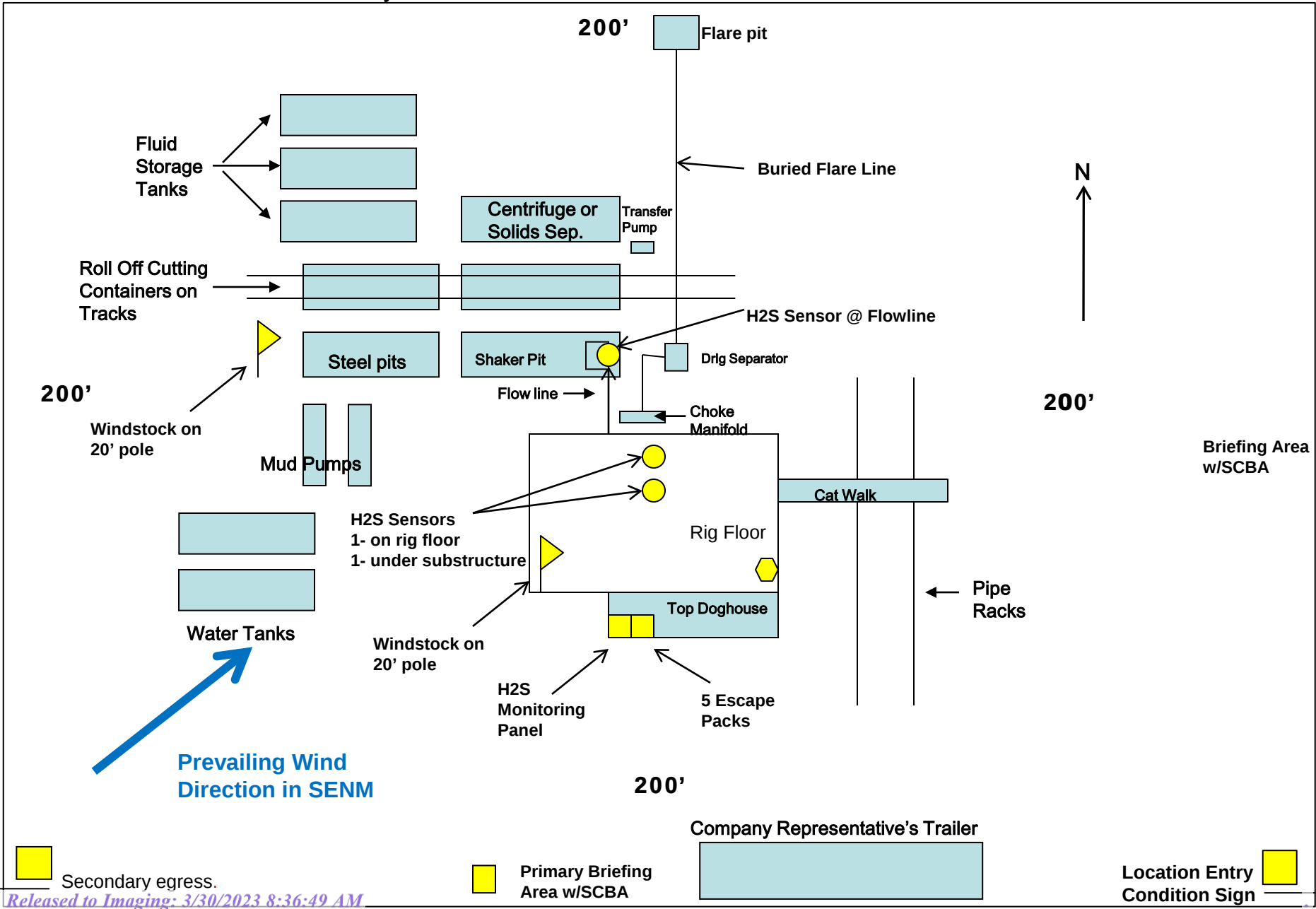
All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of drilling operations and completion operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location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

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

ZS 122022

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

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



COG OPERATING LLC
HYDROGEN SULFIDE DRILLING OPERATIONS PLAN

1. HYDROGEN SULFIDE TRAINING

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

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

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

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

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

2. H₂S SAFETY EQUIPMENT AND SYSTEMS

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

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

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

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

W A R N I N G

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

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

COG OPERATING LLC

1-575-748-6940

EMERGENCY CALL LIST

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

EMERGENCY RESPONSE NUMBERS

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

District I

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

District II

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

District III

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

District IV

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

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

CONDITIONS

Action 200113

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 200113
	Action Type: [C-101] BLM - Federal/Indian Land Lease (Form 3160-3)

CONDITIONS

Created By	Condition	Condition Date
kpickford	Will require administrative order for non-standard spacing unit	3/24/2023
kpickford	Notify OCD 24 hours prior to casing & cement	3/24/2023
kpickford	Will require a File As Drilled C-102 and a Directional Survey with the C-104	3/24/2023
kpickford	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	3/24/2023
kpickford	Cement is required to circulate on both surface and intermediate1 strings of casing	3/24/2023
kpickford	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	3/24/2023