

Form 3160-5 (June 2019)	UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT	FORM APPROVED OMB No. 1004-0137 Expires: October 31, 2021
SUNDRY NOTICES AND REPORTS ON WELLS <i>Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.</i>		5. Lease Serial No.
		6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2		7. If Unit of CA/Agreement, Name and/or No.
1. Type of Well ☐ Oil Well ☐ Gas Well ☐ Other		8. Well Name and No.
2. Name of Operator		9. API Well No.
3a. Address	3b. Phone No. (include area code)	10. Field and Pool or Exploratory Area
4. Location of Well (Footage, Sec., T.,R.,M., or Survey Description)		11. Country or Parish, State

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA				
TYPE OF SUBMISSION	TYPE OF ACTION			
☐ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
	☐ Alter Casing	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Subsequent Report	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
☐ Final Abandonment Notice	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be perfonned or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has detennined that the site is ready for final inspection.)

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)		
	Title	
Signature	Date	

THE SPACE FOR FEDERAL OR STATE OFFICE USE		
Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

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.

(Instructions on page 2)

Additional Information

Location of Well

0. SHL: NENE / 655 FNL / 1005 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106556 / LONG: -104.189707 (TVD: 0 feet, MD: 0 feet)

PPP: NWNE / 330 FNL / 1785 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.107414 / LONG: -104.192242 (TVD: 8797 feet, MD: 8936 feet)

PPP: SWSE / 1319 FSL / 1785 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097415 / LONG: -104.192354 (TVD: 8967 feet, MD: 12567 feet)

PPP: SWNE / 2639 FSL / 1785 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.079008 / LONG: -104.192561 (TVD: 8967 feet, MD: 16527 feet)

PPP: NWNE / 1 FNL / 1785 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079008 / LONG: -104.192561 (TVD: 8969 feet, MD: 19167 feet)

BHL: NWSE / 200 FSL / 1785 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.06477 / LONG: -104.192721 (TVD: 8973 feet, MD: 24323 feet)

CONFIDENTIAL

SEC28-T25S-R27E_FLAMING SNAIL FED COM_Eddy__CONOCOPHILLIPS COMPANY_45670_JS

FLAMING SNAIL FED COM

13 3/8		surface csg in a		17 1/2	inch hole.		Design Factors			Surface				
Segment	#/ft	Grade		Coupling		Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	54.50			J 55		BTC	36.41	5.75	2.53	430	15	4.38	11.08	23,435
"B"						BTC				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500						Tail Cmt	does not	circ to sfc.	Totals:	430				23,435
Comparison of Proposed to Minimum Required Cement Volumes														
Hole Size	Annular Volume	1 Stage Cmt Sx		1 Stage CuFt Cmt		Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
17 1/2	0.6946	510		790		299	164	8.80	623	2M			1.56	
Proposed														
9 5/8		casing inside the		13 3/8		Design Factors			Int 1					
Segment	#/ft	Grade		Coupling		Body	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	40.00			L 80		BTC	11.01	2.86	1.2	2,080	5	2.09	4.96	83,200
"B"										0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,500									Totals:	2,080				83,200
The cement volume(s) are intended to achieve a top of						0	ft from surface or a		430					overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx		1 Stage CuFt Cmt		Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
12 1/4	0.3132	600		894		673	33	10.00	2751	3M			0.81	
D V Tool(s):									sum of sx	Σ CuFt			Σ%excess	
t by stage % :						#VALUE!	#VALUE!		600	894			33	
Class 'H' tail cmt yld > 1.20														
7 5/8		Liner w/top @		1880		Design Factors			Liner					
Segment	#/ft	Grade		Coupling		Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	29.70			P 110		W-513	2.60	1.12	1.33	7,307	2	1.90	1.94	217,018
"B"						0.00				0				0
w/8.4#/g mud, 30min Sfc Csg Test psig: 2,021									Totals:	7,307				217,018
The cement volume(s) are intended to achieve a top of						4020	ft from surface or a		-1940					overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx		1 Stage CuFt Cmt		Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
8 3/4	0.1005	290		782		519	51	10.00	4971	5M			0.56	
Class 'C' tail cmt yld > 1.35														
MASP is within 10% of 5000psig, need exrta equip?														
Keep Casing Full,														
Tail cmt														
5 1/2		casing inside the		7 5/8		Design Factors			Prod 1					
Segment	#/ft	Grade		Coupling		Joint	Collapse	Burst	Length	B@s	a-B	a-C	Weight	
"A"	23.00			P 110		BTC	3.21	2.22	1.73	8,987	2	2.49	3.19	206,701
"B"	23.00			P 110		W-441	7.41	1.87	2.04	16,101	2	2.92	2.92	370,323
w/8.4#/g mud, 30min Sfc Csg Test psig: 1,977									Totals:	25,088				577,024
The cement volume(s) are intended to achieve a top of						8987	ft from surface or a		200					overlap.
Hole Size	Annular Volume	1 Stage Cmt Sx		1 Stage CuFt Cmt		Min Cu Ft	1 Stage % Excess	Drilling Mud Wt	Calc MASP	Req'd BOPE			Min Dist Hole-Cplg	
6 3/4	0.0835	1630		2243		1347	67	14.00					0.43	
Class 'H' tail cmt yld > 1.20														
Capitan Reef est top XXXX.														
MASP is within 10% of 5000psig, need exrta equip?														

PECOS DISTRICT DRILLING CONDITIONS OF APPROVAL

OPERATOR'S NAME:	CONOCOPHILLIPS COMPANY
WELL NAME & NO.:	FLAMING SNAIL FED COM 704H
SURFACE HOLE FOOTAGE:	655'N & 1005'E
BOTTOM HOLE FOOTAGE:	200'S & 1436'E
LOCATION:	Section 28 T.25 S., R.27 E., NMP
COUNTY:	Eddy County, New Mexico

All other COAs still apply.

Contingency Casing Design:

1. The **13-3/8** inch surface casing shall be set at approximately **350 feet per BLM Geologist** (a minimum of 70 feet (Eddy County) into the Rustler Anhydrite, above the salt, and below usable fresh water) and cemented to the surface.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job will be a minimum of **8 hours** or 500 pounds compressive strength, whichever is greater. (This is to include the lead cement)
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
2. The minimum required fill of cement behind the **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 or potash.
 - ❖ 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. **Keep casing full during run for collapse safety factor.** The minimum required fill of cement behind the **7-5/8** inch intermediate liner is:
 - Cement should tie-back **100 feet** into the previous casing. Operator shall provide method of verification.

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

4. 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.
 - **Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to cave/karst or potash.**

(Note: For a minimum 5M BOPE or less (Utilizing a 10M BOPE system)

BOPE Break Testing Variance

- BOPE Break Testing is ONLY permitted for 5M BOPE or less. **(Annular preventer must be tested to a minimum of 70% of BOPE working pressure and shall be higher than the MASP)**
- BOPE Break Testing is NOT permitted to drilling the production hole section.
- Variance only pertains to the intermediate hole-sections and no deeper than the Bone Springs formation.
- While in transfer between wells, the BOPE shall be secured by the hydraulic carrier or cradle.
- Any well control event while drilling require notification to the BLM Petroleum Engineer **(575-706-2779)** prior to the commencement of any BOPE Break Testing operations.
- A full BOPE test is required prior to drilling the first deep intermediate hole section. If any subsequent hole interval is deeper than the first, a full BOPE test will be required. (200' TVD tolerance between intermediate shoes is allowable).
- The BLM is to be contacted (575-361-2822 Eddy County) 4 hours prior to BOPE tests.
- As a minimum, a full BOPE test shall be performed at 21-day intervals.
- In the event any repairs or replacement of the BOPE is required, the BOPE shall test as per Onshore Oil and Gas Order No. 2.
- If in the event break testing is not utilized, then a full BOPE test would be conducted.

BOPE Break Testing Variance

Initial and 21 Day Testing of 10K BOP's:

Component	High Test Pressure	Low Test Pressure	Duration
Annular Preventer	5,000 psig	250 psig	10 min
Rams	5,000 psig	250 psig	10 min
Manifold	5,000 psig	250 psig	10 min
Wellhead	1,500 psig	-	10 min
Upper / Lower / Kelly Valves	5,000 psig	250 psig	10 min
TIW safety valves / Dart	5,000 psig	250 psig	10 min
Standpipe and mud line to pumps	5,000 psig	250 psig	10 min
Surface Casing (with 8.4 ppg fluid)	1,500 psig	-	30 min

*Equipment satisfies 10M BOPE but break test variance applies to 5M system

COG Production LLC formally requests variance from the minimum standards for well control equipment testing of Onshore Order No. 2 (item III.A.2.a.i) to allow break/shell testing of blowout preventor (BOP) and blowout prevention equipment (BOPE) during batch drilling operations of the intermediate hole section. This variance only applies to 5M BOPE or less formation.

Initial testing of the BOP will be conducted, verifying all components of BOP, BOPE, and choke manifold meet the minimum and maximum anticipated surface pressure (MASP) in accordance with API RP 53 and Onshore Order No. 2, reference table above. Once initial test pressures are achieved, shell testing of the BOP and choke manifold would be conducted within the time limit from initial test to the congruent 21-day test. A complete pressure test of the BOPE components will be completed no later than 21 days following the completion of the initial pressure test or latest complete BOP pressure test date succeeding the initial test, per API RP 53 (6.5.3.4.1 (d)).

BOP and BOPE Testing

- Minimum of Class 3 stack arrangement with one set of blind/blind shear rams and pipe rams shall be installed for a 5K pressure rated system per API RP 53 (6.1.2.9)
 - Classification - COP minimum of Class 3 arrangement apply for all Delaware Basin area wells.
 - Arrangement - Annular preventer, upper pipe rams, blind rams, mud cross, lower pipe rams
- Complete BOP and BOPE test performed at initial installation on well pad.
 - Initial test performed on well with deepest planned intermediate hole section (allowable 200' TVD variance between intermediate hole sections)
 - Annular preventer tested to 100 percent of MASP, or 70 percent of rated working pressure (RWP), whichever is greater.
 - Notify BLM 4 Hrs. prior to testing
- Complete BOP and BOPE test every 21 days in accordance with API RP 53 (6.5.3.4.1 (d)).
- BOP/BOPE shell test (inclusive of manifold shell test) performed during batch drilling operations during rig transition between wells (within the 21-day time limit per API RP 53).
- Function test BOP elements per API RP 53 (6.5.3.1).
 - Required on (1) initial installation of stack, (2) every 7 days, (3) after repair/replacement of any control components
 - Alternate between drillers panel and remote panel

Securing the Wellhead

- Prior to moving rig off check for flow
 - Ensure floats are holding, casing is full of kill mud and backside is static.
- Secure the well with sleeve/plug with BPV
- Disconnect BOP from the wellhead and walk with the rig to another well on the pad.
 - Utilizing BOP wrangler/cradle, maintaining control and upright position of the BOP during movement
- Once BOP is separated from wellhead the Temporary Abandonment (TA) cap will be installed per Wellhead vendor procedure and pressure inside the casing will be monitored via the valve on the TA cap as per standard batch drilling ops.
- Test TA cap to 5,000 psi for 10 min.

COG Production LLC believes that the combination of drilling fluid inside the casing, abandonment plug with BPV, casing and annular valves and the TA cap provide multiple barriers to ensure complete closure of the wellbore prior to skidding/walking the rig.

Break Testing

- Skid rig over the next well on pad and center over wellhead, N/U BOP with the use of the BOP quick connect.
- Shell test the BOP and choke manifold to 5,000 psig and 250 psig. Hold each test for 10 minutes.
 - In accordance with API RP 53 (6.5.3.4.1(b)) BOP shell test will satisfy pressure test of quick connect seals
 - Notify BLM 4 hours prior to testing
- RWP of BOP quick connect is 10K (Certificate of Conformance attached)

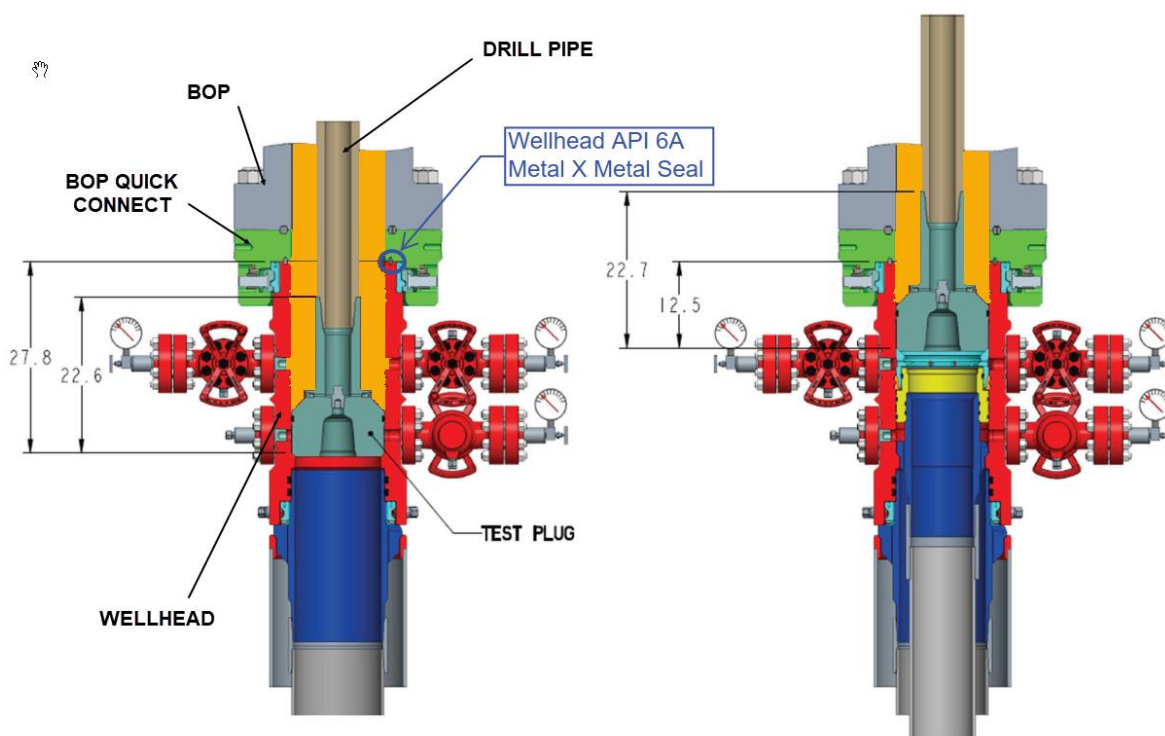


Figure 1: Test plug installed (The orange sections above indicate the areas exposed to the pressure test)

Example Well Control Plan Content

A. Well Control Component Table

This table, combined with the mud program, documents that two barriers to flow can be maintained at all times, independent of the BOP nipped up to the wellhead.

Intermediate hole section, 5M requirement

Component	RWP
Pack-off	10M
Casing Wellhead Valves	10M
Annular Wellhead Valves	5M
TA Plug	10M
Float Valves	5M
2" 1502 Lo-Torque Valves	10M

B. Well Control Procedures

Well control procedures are specific to the rig equipment and the operation at the time the kick occurs. Below are the minimal high-level tasks prescribed to assure a proper shut-in while circulating.

General Procedure

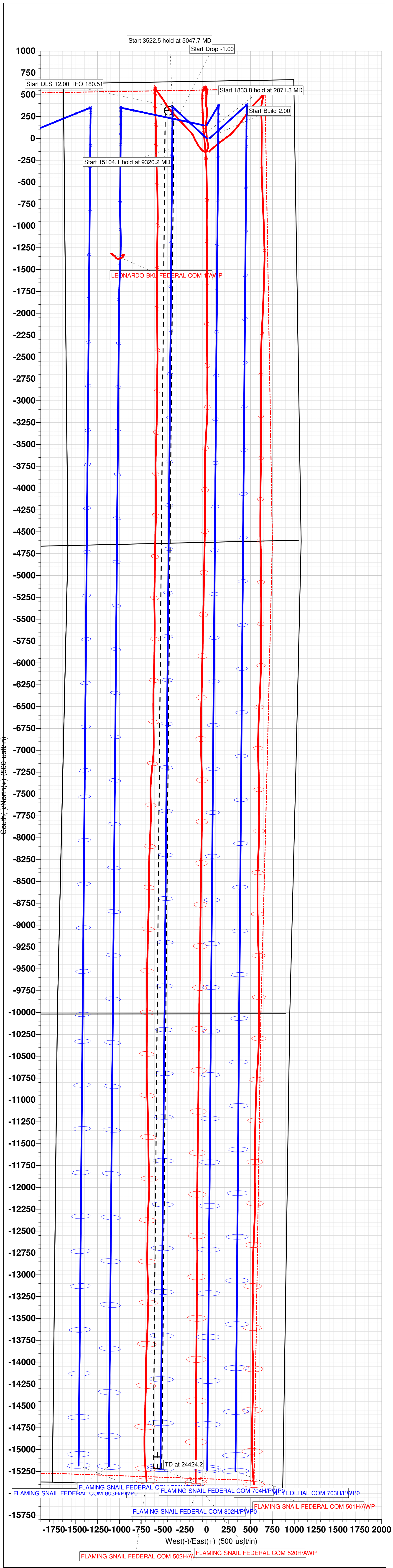
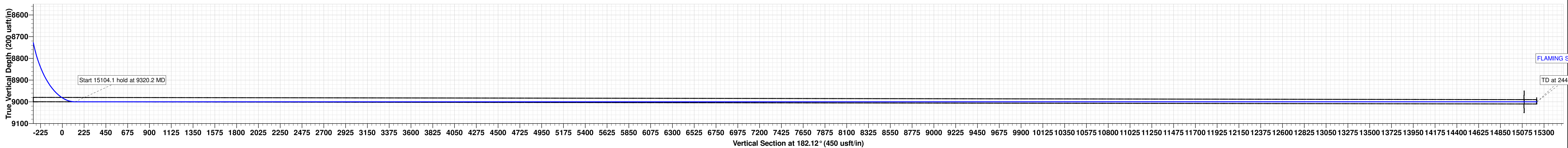
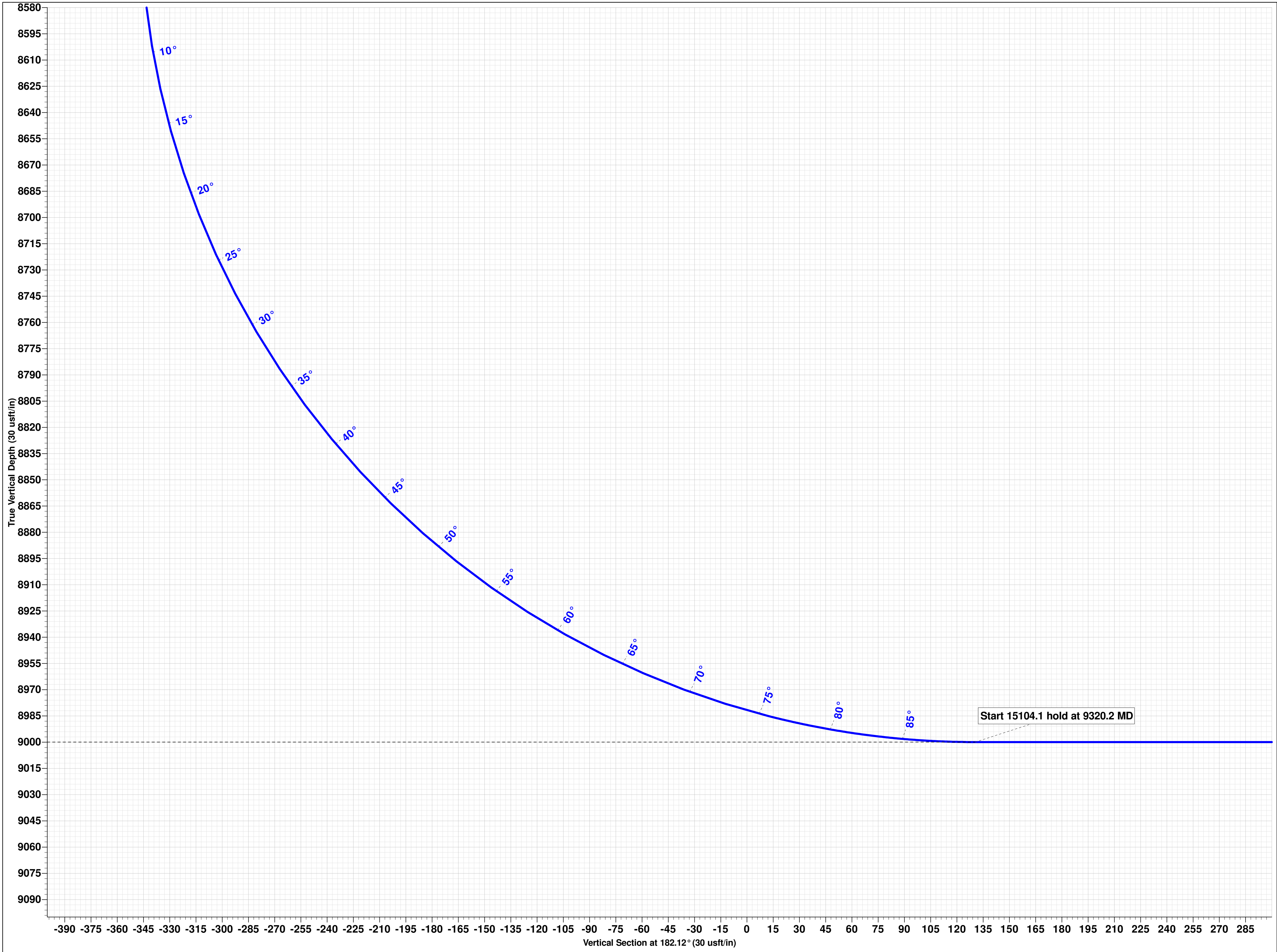
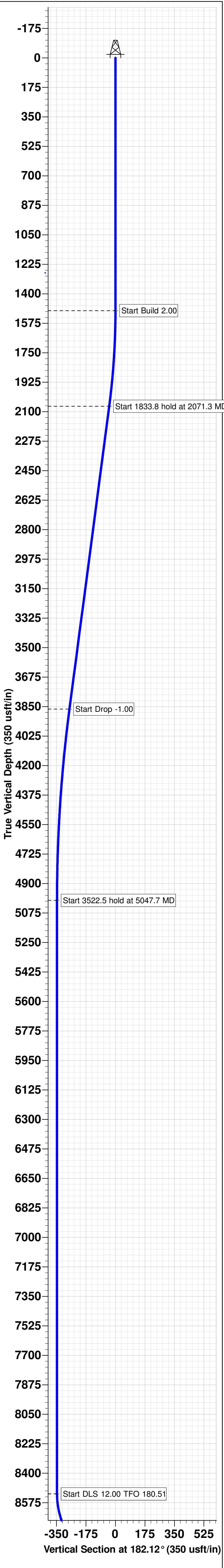
1. Sound alarm (alert crew).
2. Shut down pumps.
3. Shut-in Well (close valves to rig pits and open valve to rig choke line. Rig choke will already be in the closed position).
4. Confirm shut in.
5. Notify tool pusher/company representative.
6. Read and record the following:
 - a. SICP (Shut in Casing Pressure) and AP (Annular Pressure)
 - b. Pit gain
 - c. Time
 - d. Regroup and identify forward plan to continue circulating out kick via rig choke and mud/gas separator. Circulate and adjust mud density as needed to control well.



Project: ATLAS PROSPECT (DBW)
Site: FLAMING SNAIL FED COM PROJECT
Wellbore: FLAMING SNAIL FEDERAL COM 704H
Wellbore: OWB
Design: PWP0

SECTION DETAILS

MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
1500.0	0.00	0.00	1500.0	0.0	0.0	0.00	0.00	0.0
2071.3	11.43	312.66	2067.5	38.5	-41.7	2.00	312.66	-36.9
3905.1	11.43	312.66	3865.0	284.7	-308.9	0.00	0.00	-273.0
5047.7	0.00	0.00	5000.0	361.6	-392.4	1.00	180.00	-346.8
8570.2	0.00	0.00	8522.5	361.6	-392.4	0.00	0.00	-346.8
9320.2	90.00	180.51	9000.0	-115.9	-396.6	12.00	180.51	-130.5
24424.2	90.00	180.51	9000.0	-15219.3	-530.4	0.00	0.00	15228.5



DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM 704H

OWB

Plan: PWP0

Standard Planning Report

11 November, 2024

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

Project	ATLAS PROSPECT (DBW)		
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		

Well	FLAMING SNAIL FEDERAL COM 704H					
Well Position	+N/-S	0.0 usft	Northing:	402,473.70 usft	Latitude:	32° 6' 23.164 N
	+E/-W	0.0 usft	Easting:	544,624.80 usft	Longitude:	104° 11' 21.168 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,129.3 usft
Grid Convergence:		0.08 °				

Wellbore	OWB				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2022	12/1/2023	6.78	59.68	47,317.42458282

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	182.12	

Plan Survey Tool Program	Date	11/11/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1 0.0	8,570.2	PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1	rev.5	
2 8,570.2	24,424.2	PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1	rev.5	

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,071.3	11.43	312.66	2,067.5	38.5	-41.7	2.00	2.00	0.00	312.66	
3,905.1	11.43	312.66	3,865.0	284.7	-308.9	0.00	0.00	0.00	0.00	
5,047.7	0.00	0.00	5,000.0	361.6	-392.4	1.00	-1.00	0.00	180.00	
8,570.2	0.00	0.00	8,522.5	361.6	-392.4	0.00	0.00	0.00	0.00	
9,320.2	90.00	180.51	9,000.0	-115.8	-396.6	12.00	12.00	-23.93	180.51	
24,424.2	90.00	180.51	9,000.0	-15,219.3	-530.4	0.00	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 704H	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
Start Build 2.00									
1,600.0	2.00	312.66	1,600.0	1.2	-1.3	-1.1	2.00	2.00	0.00
1,700.0	4.00	312.66	1,699.8	4.7	-5.1	-4.5	2.00	2.00	0.00
1,800.0	6.00	312.66	1,799.5	10.6	-11.5	-10.2	2.00	2.00	0.00
1,900.0	8.00	312.66	1,898.7	18.9	-20.5	-18.1	2.00	2.00	0.00
2,000.0	10.00	312.66	1,997.5	29.5	-32.0	-28.3	2.00	2.00	0.00
2,071.3	11.43	312.66	2,067.5	38.5	-41.7	-36.9	2.00	2.00	0.00
Start 1833.8 hold at 2071.3 MD									
2,100.0	11.43	312.66	2,095.7	42.3	-45.9	-40.6	0.00	0.00	0.00
2,200.0	11.43	312.66	2,193.7	55.8	-60.5	-53.5	0.00	0.00	0.00
2,300.0	11.43	312.66	2,291.7	69.2	-75.1	-66.3	0.00	0.00	0.00
2,400.0	11.43	312.66	2,389.7	82.6	-89.6	-79.2	0.00	0.00	0.00
2,500.0	11.43	312.66	2,487.7	96.0	-104.2	-92.1	0.00	0.00	0.00
2,600.0	11.43	312.66	2,585.7	109.5	-118.8	-105.0	0.00	0.00	0.00
2,700.0	11.43	312.66	2,683.8	122.9	-133.3	-117.8	0.00	0.00	0.00
2,800.0	11.43	312.66	2,781.8	136.3	-147.9	-130.7	0.00	0.00	0.00
2,900.0	11.43	312.66	2,879.8	149.7	-162.5	-143.6	0.00	0.00	0.00
3,000.0	11.43	312.66	2,977.8	163.1	-177.0	-156.5	0.00	0.00	0.00
3,100.0	11.43	312.66	3,075.8	176.6	-191.6	-169.3	0.00	0.00	0.00
3,200.0	11.43	312.66	3,173.9	190.0	-206.2	-182.2	0.00	0.00	0.00
3,300.0	11.43	312.66	3,271.9	203.4	-220.7	-195.1	0.00	0.00	0.00
3,400.0	11.43	312.66	3,369.9	216.8	-235.3	-208.0	0.00	0.00	0.00
3,500.0	11.43	312.66	3,467.9	230.3	-249.9	-220.8	0.00	0.00	0.00
3,600.0	11.43	312.66	3,565.9	243.7	-264.4	-233.7	0.00	0.00	0.00
3,700.0	11.43	312.66	3,663.9	257.1	-279.0	-246.6	0.00	0.00	0.00
3,800.0	11.43	312.66	3,762.0	270.5	-293.6	-259.5	0.00	0.00	0.00
3,905.1	11.43	312.66	3,865.0	284.7	-308.9	-273.0	0.00	0.00	0.00
Start Drop -1.00									
4,000.0	10.48	312.66	3,958.1	296.9	-322.1	-284.7	1.00	-1.00	0.00
4,100.0	9.48	312.66	4,056.6	308.6	-334.9	-296.0	1.00	-1.00	0.00
4,200.0	8.48	312.66	4,155.4	319.2	-346.4	-306.1	1.00	-1.00	0.00
4,300.0	7.48	312.66	4,254.4	328.6	-356.6	-315.1	1.00	-1.00	0.00
4,400.0	6.48	312.66	4,353.7	336.8	-365.5	-323.0	1.00	-1.00	0.00
4,500.0	5.48	312.66	4,453.2	343.9	-373.2	-329.8	1.00	-1.00	0.00
4,600.0	4.48	312.66	4,552.8	349.8	-379.5	-335.4	1.00	-1.00	0.00
4,700.0	3.48	312.66	4,652.5	354.5	-384.6	-339.9	1.00	-1.00	0.00
4,800.0	2.48	312.66	4,752.4	358.0	-388.5	-343.3	1.00	-1.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 704H	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)
4,900.0	1.48	312.66	4,852.3	360.3	-391.0	-345.6	1.00	-1.00	0.00
5,000.0	0.48	312.66	4,952.3	361.5	-392.2	-346.7	1.00	-1.00	0.00
5,047.7	0.00	0.00	5,000.0	361.6	-392.4	-346.8	1.00	-1.00	0.00
Start 3522.5 hold at 5047.7 MD									
5,100.0	0.00	0.00	5,052.3	361.6	-392.4	-346.8	0.00	0.00	0.00
5,200.0	0.00	0.00	5,152.3	361.6	-392.4	-346.8	0.00	0.00	0.00
5,300.0	0.00	0.00	5,252.3	361.6	-392.4	-346.8	0.00	0.00	0.00
5,400.0	0.00	0.00	5,352.3	361.6	-392.4	-346.8	0.00	0.00	0.00
5,500.0	0.00	0.00	5,452.3	361.6	-392.4	-346.8	0.00	0.00	0.00
5,600.0	0.00	0.00	5,552.3	361.6	-392.4	-346.8	0.00	0.00	0.00
5,700.0	0.00	0.00	5,652.3	361.6	-392.4	-346.8	0.00	0.00	0.00
5,800.0	0.00	0.00	5,752.3	361.6	-392.4	-346.8	0.00	0.00	0.00
5,900.0	0.00	0.00	5,852.3	361.6	-392.4	-346.8	0.00	0.00	0.00
6,000.0	0.00	0.00	5,952.3	361.6	-392.4	-346.8	0.00	0.00	0.00
6,100.0	0.00	0.00	6,052.3	361.6	-392.4	-346.8	0.00	0.00	0.00
6,200.0	0.00	0.00	6,152.3	361.6	-392.4	-346.8	0.00	0.00	0.00
6,300.0	0.00	0.00	6,252.3	361.6	-392.4	-346.8	0.00	0.00	0.00
6,400.0	0.00	0.00	6,352.3	361.6	-392.4	-346.8	0.00	0.00	0.00
6,500.0	0.00	0.00	6,452.3	361.6	-392.4	-346.8	0.00	0.00	0.00
6,600.0	0.00	0.00	6,552.3	361.6	-392.4	-346.8	0.00	0.00	0.00
6,700.0	0.00	0.00	6,652.3	361.6	-392.4	-346.8	0.00	0.00	0.00
6,800.0	0.00	0.00	6,752.3	361.6	-392.4	-346.8	0.00	0.00	0.00
6,900.0	0.00	0.00	6,852.3	361.6	-392.4	-346.8	0.00	0.00	0.00
7,000.0	0.00	0.00	6,952.3	361.6	-392.4	-346.8	0.00	0.00	0.00
7,100.0	0.00	0.00	7,052.3	361.6	-392.4	-346.8	0.00	0.00	0.00
7,200.0	0.00	0.00	7,152.3	361.6	-392.4	-346.8	0.00	0.00	0.00
7,300.0	0.00	0.00	7,252.3	361.6	-392.4	-346.8	0.00	0.00	0.00
7,400.0	0.00	0.00	7,352.3	361.6	-392.4	-346.8	0.00	0.00	0.00
7,500.0	0.00	0.00	7,452.3	361.6	-392.4	-346.8	0.00	0.00	0.00
7,600.0	0.00	0.00	7,552.3	361.6	-392.4	-346.8	0.00	0.00	0.00
7,700.0	0.00	0.00	7,652.3	361.6	-392.4	-346.8	0.00	0.00	0.00
7,800.0	0.00	0.00	7,752.3	361.6	-392.4	-346.8	0.00	0.00	0.00
7,900.0	0.00	0.00	7,852.3	361.6	-392.4	-346.8	0.00	0.00	0.00
8,000.0	0.00	0.00	7,952.3	361.6	-392.4	-346.8	0.00	0.00	0.00
8,100.0	0.00	0.00	8,052.3	361.6	-392.4	-346.8	0.00	0.00	0.00
8,200.0	0.00	0.00	8,152.3	361.6	-392.4	-346.8	0.00	0.00	0.00
8,300.0	0.00	0.00	8,252.3	361.6	-392.4	-346.8	0.00	0.00	0.00
8,400.0	0.00	0.00	8,352.3	361.6	-392.4	-346.8	0.00	0.00	0.00
8,500.0	0.00	0.00	8,452.3	361.6	-392.4	-346.8	0.00	0.00	0.00
8,570.2	0.00	0.00	8,522.5	361.6	-392.4	-346.8	0.00	0.00	0.00
Start DLS 12.00 TFO 180.51									
8,575.0	0.58	180.51	8,527.3	361.6	-392.4	-346.8	12.00	12.00	0.00
8,600.0	3.58	180.51	8,552.3	360.7	-392.4	-345.9	12.00	12.00	0.00
8,625.0	6.58	180.51	8,577.2	358.5	-392.4	-343.7	12.00	12.00	0.00
8,650.0	9.58	180.51	8,601.9	354.9	-392.4	-340.1	12.00	12.00	0.00
8,675.0	12.58	180.51	8,626.5	350.1	-392.5	-335.3	12.00	12.00	0.00
8,700.0	15.58	180.51	8,650.7	344.1	-392.5	-329.3	12.00	12.00	0.00
8,725.0	18.58	180.51	8,674.6	336.7	-392.6	-321.9	12.00	12.00	0.00
8,750.0	21.58	180.51	8,698.1	328.1	-392.7	-313.4	12.00	12.00	0.00
8,775.0	24.58	180.51	8,721.1	318.3	-392.8	-303.6	12.00	12.00	0.00
8,800.0	27.58	180.51	8,743.5	307.4	-392.9	-292.6	12.00	12.00	0.00
8,825.0	30.58	180.51	8,765.4	295.2	-393.0	-280.4	12.00	12.00	0.00
8,850.0	33.58	180.51	8,786.6	281.9	-393.1	-267.2	12.00	12.00	0.00
8,875.0	36.58	180.51	8,807.0	267.6	-393.2	-252.8	12.00	12.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 704H	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)
8,900.0	39.58	180.51	8,826.7	252.1	-393.4	-237.4	12.00	12.00	0.00
8,925.0	42.58	180.51	8,845.6	235.7	-393.5	-221.0	12.00	12.00	0.00
8,950.0	45.58	180.51	8,863.5	218.3	-393.7	-203.6	12.00	12.00	0.00
8,975.0	48.58	180.51	8,880.5	200.0	-393.8	-185.3	12.00	12.00	0.00
9,000.0	51.58	180.51	8,896.6	180.9	-394.0	-166.1	12.00	12.00	0.00
9,025.0	54.58	180.51	8,911.6	160.9	-394.2	-146.1	12.00	12.00	0.00
9,050.0	57.58	180.51	8,925.5	140.1	-394.4	-125.4	12.00	12.00	0.00
9,075.0	60.58	180.51	8,938.4	118.7	-394.5	-104.0	12.00	12.00	0.00
9,100.0	63.58	180.51	8,950.1	96.6	-394.7	-81.9	12.00	12.00	0.00
9,125.0	66.58	180.51	8,960.6	73.9	-394.9	-59.2	12.00	12.00	0.00
9,150.0	69.58	180.51	8,970.0	50.7	-395.1	-36.1	12.00	12.00	0.00
9,175.0	72.58	180.51	8,978.1	27.1	-395.4	-12.4	12.00	12.00	0.00
9,200.0	75.58	180.51	8,984.9	3.1	-395.6	11.6	12.00	12.00	0.00
9,225.0	78.58	180.51	8,990.5	-21.3	-395.8	36.0	12.00	12.00	0.00
9,250.0	81.58	180.51	8,994.8	-45.9	-396.0	60.6	12.00	12.00	0.00
9,275.0	84.58	180.51	8,997.8	-70.7	-396.2	85.4	12.00	12.00	0.00
9,300.0	87.58	180.51	8,999.5	-95.7	-396.4	110.3	12.00	12.00	0.00
9,320.2	90.00	180.51	9,000.0	-115.8	-396.6	130.5	12.00	12.00	0.00
Start 15104.1 hold at 9320.2 MD									
9,400.0	90.00	180.51	9,000.0	-195.7	-397.3	210.3	0.00	0.00	0.00
9,500.0	90.00	180.51	9,000.0	-295.7	-398.2	310.2	0.00	0.00	0.00
9,600.0	90.00	180.51	9,000.0	-395.7	-399.1	410.2	0.00	0.00	0.00
9,700.0	90.00	180.51	9,000.0	-495.7	-400.0	510.1	0.00	0.00	0.00
9,800.0	90.00	180.51	9,000.0	-595.6	-400.9	610.1	0.00	0.00	0.00
9,900.0	90.00	180.51	9,000.0	-695.6	-401.8	710.1	0.00	0.00	0.00
10,000.0	90.00	180.51	9,000.0	-795.6	-402.6	810.0	0.00	0.00	0.00
10,100.0	90.00	180.51	9,000.0	-895.6	-403.5	910.0	0.00	0.00	0.00
10,200.0	90.00	180.51	9,000.0	-995.6	-404.4	1,009.9	0.00	0.00	0.00
10,300.0	90.00	180.51	9,000.0	-1,095.6	-405.3	1,109.9	0.00	0.00	0.00
10,400.0	90.00	180.51	9,000.0	-1,195.6	-406.2	1,209.9	0.00	0.00	0.00
10,500.0	90.00	180.51	9,000.0	-1,295.6	-407.1	1,309.8	0.00	0.00	0.00
10,600.0	90.00	180.51	9,000.0	-1,395.6	-408.0	1,409.8	0.00	0.00	0.00
10,700.0	90.00	180.51	9,000.0	-1,495.6	-408.8	1,509.7	0.00	0.00	0.00
10,800.0	90.00	180.51	9,000.0	-1,595.6	-409.7	1,609.7	0.00	0.00	0.00
10,900.0	90.00	180.51	9,000.0	-1,695.6	-410.6	1,709.7	0.00	0.00	0.00
11,000.0	90.00	180.51	9,000.0	-1,795.6	-411.5	1,809.6	0.00	0.00	0.00
11,100.0	90.00	180.51	9,000.0	-1,895.6	-412.4	1,909.6	0.00	0.00	0.00
11,200.0	90.00	180.51	9,000.0	-1,995.6	-413.3	2,009.5	0.00	0.00	0.00
11,300.0	90.00	180.51	9,000.0	-2,095.6	-414.2	2,109.5	0.00	0.00	0.00
11,400.0	90.00	180.51	9,000.0	-2,195.6	-415.0	2,209.5	0.00	0.00	0.00
11,500.0	90.00	180.51	9,000.0	-2,295.6	-415.9	2,309.4	0.00	0.00	0.00
11,600.0	90.00	180.51	9,000.0	-2,395.6	-416.8	2,409.4	0.00	0.00	0.00
11,700.0	90.00	180.51	9,000.0	-2,495.6	-417.7	2,509.3	0.00	0.00	0.00
11,800.0	90.00	180.51	9,000.0	-2,595.6	-418.6	2,609.3	0.00	0.00	0.00
11,900.0	90.00	180.51	9,000.0	-2,695.6	-419.5	2,709.3	0.00	0.00	0.00
12,000.0	90.00	180.51	9,000.0	-2,795.6	-420.4	2,809.2	0.00	0.00	0.00
12,100.0	90.00	180.51	9,000.0	-2,895.6	-421.2	2,909.2	0.00	0.00	0.00
12,200.0	90.00	180.51	9,000.0	-2,995.6	-422.1	3,009.1	0.00	0.00	0.00
12,300.0	90.00	180.51	9,000.0	-3,095.6	-423.0	3,109.1	0.00	0.00	0.00
12,400.0	90.00	180.51	9,000.0	-3,195.5	-423.9	3,209.1	0.00	0.00	0.00
12,500.0	90.00	180.51	9,000.0	-3,295.5	-424.8	3,309.0	0.00	0.00	0.00
12,600.0	90.00	180.51	9,000.0	-3,395.5	-425.7	3,409.0	0.00	0.00	0.00
12,700.0	90.00	180.51	9,000.0	-3,495.5	-426.6	3,508.9	0.00	0.00	0.00
12,800.0	90.00	180.51	9,000.0	-3,595.5	-427.4	3,608.9	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 704H	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)
12,900.0	90.00	180.51	9,000.0	-3,695.5	-428.3	3,708.9	0.00	0.00	0.00
13,000.0	90.00	180.51	9,000.0	-3,795.5	-429.2	3,808.8	0.00	0.00	0.00
13,100.0	90.00	180.51	9,000.0	-3,895.5	-430.1	3,908.8	0.00	0.00	0.00
13,200.0	90.00	180.51	9,000.0	-3,995.5	-431.0	4,008.7	0.00	0.00	0.00
13,300.0	90.00	180.51	9,000.0	-4,095.5	-431.9	4,108.7	0.00	0.00	0.00
13,400.0	90.00	180.51	9,000.0	-4,195.5	-432.8	4,208.7	0.00	0.00	0.00
13,500.0	90.00	180.51	9,000.0	-4,295.5	-433.6	4,308.6	0.00	0.00	0.00
13,600.0	90.00	180.51	9,000.0	-4,395.5	-434.5	4,408.6	0.00	0.00	0.00
13,700.0	90.00	180.51	9,000.0	-4,495.5	-435.4	4,508.5	0.00	0.00	0.00
13,800.0	90.00	180.51	9,000.0	-4,595.5	-436.3	4,608.5	0.00	0.00	0.00
13,900.0	90.00	180.51	9,000.0	-4,695.5	-437.2	4,708.5	0.00	0.00	0.00
14,000.0	90.00	180.51	9,000.0	-4,795.5	-438.1	4,808.4	0.00	0.00	0.00
14,100.0	90.00	180.51	9,000.0	-4,895.5	-439.0	4,908.4	0.00	0.00	0.00
14,200.0	90.00	180.51	9,000.0	-4,995.5	-439.9	5,008.3	0.00	0.00	0.00
14,300.0	90.00	180.51	9,000.0	-5,095.5	-440.7	5,108.3	0.00	0.00	0.00
14,400.0	90.00	180.51	9,000.0	-5,195.5	-441.6	5,208.3	0.00	0.00	0.00
14,500.0	90.00	180.51	9,000.0	-5,295.5	-442.5	5,308.2	0.00	0.00	0.00
14,600.0	90.00	180.51	9,000.0	-5,395.5	-443.4	5,408.2	0.00	0.00	0.00
14,700.0	90.00	180.51	9,000.0	-5,495.5	-444.3	5,508.2	0.00	0.00	0.00
14,800.0	90.00	180.51	9,000.0	-5,595.5	-445.2	5,608.1	0.00	0.00	0.00
14,900.0	90.00	180.51	9,000.0	-5,695.4	-446.1	5,708.1	0.00	0.00	0.00
15,000.0	90.00	180.51	9,000.0	-5,795.4	-446.9	5,808.0	0.00	0.00	0.00
15,100.0	90.00	180.51	9,000.0	-5,895.4	-447.8	5,908.0	0.00	0.00	0.00
15,200.0	90.00	180.51	9,000.0	-5,995.4	-448.7	6,008.0	0.00	0.00	0.00
15,300.0	90.00	180.51	9,000.0	-6,095.4	-449.6	6,107.9	0.00	0.00	0.00
15,400.0	90.00	180.51	9,000.0	-6,195.4	-450.5	6,207.9	0.00	0.00	0.00
15,500.0	90.00	180.51	9,000.0	-6,295.4	-451.4	6,307.8	0.00	0.00	0.00
15,600.0	90.00	180.51	9,000.0	-6,395.4	-452.3	6,407.8	0.00	0.00	0.00
15,700.0	90.00	180.51	9,000.0	-6,495.4	-453.1	6,507.8	0.00	0.00	0.00
15,800.0	90.00	180.51	9,000.0	-6,595.4	-454.0	6,607.7	0.00	0.00	0.00
15,900.0	90.00	180.51	9,000.0	-6,695.4	-454.9	6,707.7	0.00	0.00	0.00
16,000.0	90.00	180.51	9,000.0	-6,795.4	-455.8	6,807.6	0.00	0.00	0.00
16,100.0	90.00	180.51	9,000.0	-6,895.4	-456.7	6,907.6	0.00	0.00	0.00
16,200.0	90.00	180.51	9,000.0	-6,995.4	-457.6	7,007.6	0.00	0.00	0.00
16,300.0	90.00	180.51	9,000.0	-7,095.4	-458.5	7,107.5	0.00	0.00	0.00
16,400.0	90.00	180.51	9,000.0	-7,195.4	-459.3	7,207.5	0.00	0.00	0.00
16,500.0	90.00	180.51	9,000.0	-7,295.4	-460.2	7,307.4	0.00	0.00	0.00
16,600.0	90.00	180.51	9,000.0	-7,395.4	-461.1	7,407.4	0.00	0.00	0.00
16,700.0	90.00	180.51	9,000.0	-7,495.4	-462.0	7,507.4	0.00	0.00	0.00
16,800.0	90.00	180.51	9,000.0	-7,595.4	-462.9	7,607.3	0.00	0.00	0.00
16,900.0	90.00	180.51	9,000.0	-7,695.4	-463.8	7,707.3	0.00	0.00	0.00
17,000.0	90.00	180.51	9,000.0	-7,795.4	-464.7	7,807.2	0.00	0.00	0.00
17,100.0	90.00	180.51	9,000.0	-7,895.4	-465.5	7,907.2	0.00	0.00	0.00
17,200.0	90.00	180.51	9,000.0	-7,995.4	-466.4	8,007.2	0.00	0.00	0.00
17,300.0	90.00	180.51	9,000.0	-8,095.4	-467.3	8,107.1	0.00	0.00	0.00
17,400.0	90.00	180.51	9,000.0	-8,195.4	-468.2	8,207.1	0.00	0.00	0.00
17,500.0	90.00	180.51	9,000.0	-8,295.3	-469.1	8,307.0	0.00	0.00	0.00
17,600.0	90.00	180.51	9,000.0	-8,395.3	-470.0	8,407.0	0.00	0.00	0.00
17,700.0	90.00	180.51	9,000.0	-8,495.3	-470.9	8,507.0	0.00	0.00	0.00
17,800.0	90.00	180.51	9,000.0	-8,595.3	-471.7	8,606.9	0.00	0.00	0.00
17,900.0	90.00	180.51	9,000.0	-8,695.3	-472.6	8,706.9	0.00	0.00	0.00
18,000.0	90.00	180.51	9,000.0	-8,795.3	-473.5	8,806.8	0.00	0.00	0.00
18,100.0	90.00	180.51	9,000.0	-8,895.3	-474.4	8,906.8	0.00	0.00	0.00
18,200.0	90.00	180.51	9,000.0	-8,995.3	-475.3	9,006.8	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 704H	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)
18,300.0	90.00	180.51	9,000.0	-9,095.3	-476.2	9,106.7	0.00	0.00	0.00
18,400.0	90.00	180.51	9,000.0	-9,195.3	-477.1	9,206.7	0.00	0.00	0.00
18,500.0	90.00	180.51	9,000.0	-9,295.3	-477.9	9,306.6	0.00	0.00	0.00
18,600.0	90.00	180.51	9,000.0	-9,395.3	-478.8	9,406.6	0.00	0.00	0.00
18,700.0	90.00	180.51	9,000.0	-9,495.3	-479.7	9,506.6	0.00	0.00	0.00
18,800.0	90.00	180.51	9,000.0	-9,595.3	-480.6	9,606.5	0.00	0.00	0.00
18,900.0	90.00	180.51	9,000.0	-9,695.3	-481.5	9,706.5	0.00	0.00	0.00
19,000.0	90.00	180.51	9,000.0	-9,795.3	-482.4	9,806.4	0.00	0.00	0.00
19,100.0	90.00	180.51	9,000.0	-9,895.3	-483.3	9,906.4	0.00	0.00	0.00
19,200.0	90.00	180.51	9,000.0	-9,995.3	-484.1	10,006.4	0.00	0.00	0.00
19,300.0	90.00	180.51	9,000.0	-10,095.3	-485.0	10,106.3	0.00	0.00	0.00
19,400.0	90.00	180.51	9,000.0	-10,195.3	-485.9	10,206.3	0.00	0.00	0.00
19,500.0	90.00	180.51	9,000.0	-10,295.3	-486.8	10,306.2	0.00	0.00	0.00
19,600.0	90.00	180.51	9,000.0	-10,395.3	-487.7	10,406.2	0.00	0.00	0.00
19,700.0	90.00	180.51	9,000.0	-10,495.3	-488.6	10,506.2	0.00	0.00	0.00
19,800.0	90.00	180.51	9,000.0	-10,595.3	-489.5	10,606.1	0.00	0.00	0.00
19,900.0	90.00	180.51	9,000.0	-10,695.3	-490.3	10,706.1	0.00	0.00	0.00
20,000.0	90.00	180.51	9,000.0	-10,795.2	-491.2	10,806.0	0.00	0.00	0.00
20,100.0	90.00	180.51	9,000.0	-10,895.2	-492.1	10,906.0	0.00	0.00	0.00
20,200.0	90.00	180.51	9,000.0	-10,995.2	-493.0	11,006.0	0.00	0.00	0.00
20,300.0	90.00	180.51	9,000.0	-11,095.2	-493.9	11,105.9	0.00	0.00	0.00
20,400.0	90.00	180.51	9,000.0	-11,195.2	-494.8	11,205.9	0.00	0.00	0.00
20,500.0	90.00	180.51	9,000.0	-11,295.2	-495.7	11,305.8	0.00	0.00	0.00
20,600.0	90.00	180.51	9,000.0	-11,395.2	-496.6	11,405.8	0.00	0.00	0.00
20,700.0	90.00	180.51	9,000.0	-11,495.2	-497.4	11,505.8	0.00	0.00	0.00
20,800.0	90.00	180.51	9,000.0	-11,595.2	-498.3	11,605.7	0.00	0.00	0.00
20,900.0	90.00	180.51	9,000.0	-11,695.2	-499.2	11,705.7	0.00	0.00	0.00
21,000.0	90.00	180.51	9,000.0	-11,795.2	-500.1	11,805.6	0.00	0.00	0.00
21,100.0	90.00	180.51	9,000.0	-11,895.2	-501.0	11,905.6	0.00	0.00	0.00
21,200.0	90.00	180.51	9,000.0	-11,995.2	-501.9	12,005.6	0.00	0.00	0.00
21,300.0	90.00	180.51	9,000.0	-12,095.2	-502.8	12,105.5	0.00	0.00	0.00
21,400.0	90.00	180.51	9,000.0	-12,195.2	-503.6	12,205.5	0.00	0.00	0.00
21,500.0	90.00	180.51	9,000.0	-12,295.2	-504.5	12,305.4	0.00	0.00	0.00
21,600.0	90.00	180.51	9,000.0	-12,395.2	-505.4	12,405.4	0.00	0.00	0.00
21,700.0	90.00	180.51	9,000.0	-12,495.2	-506.3	12,505.4	0.00	0.00	0.00
21,800.0	90.00	180.51	9,000.0	-12,595.2	-507.2	12,605.3	0.00	0.00	0.00
21,900.0	90.00	180.51	9,000.0	-12,695.2	-508.1	12,705.3	0.00	0.00	0.00
22,000.0	90.00	180.51	9,000.0	-12,795.2	-509.0	12,805.2	0.00	0.00	0.00
22,100.0	90.00	180.51	9,000.0	-12,895.2	-509.8	12,905.2	0.00	0.00	0.00
22,200.0	90.00	180.51	9,000.0	-12,995.2	-510.7	13,005.2	0.00	0.00	0.00
22,300.0	90.00	180.51	9,000.0	-13,095.2	-511.6	13,105.1	0.00	0.00	0.00
22,400.0	90.00	180.51	9,000.0	-13,195.2	-512.5	13,205.1	0.00	0.00	0.00
22,500.0	90.00	180.51	9,000.0	-13,295.1	-513.4	13,305.0	0.00	0.00	0.00
22,600.0	90.00	180.51	9,000.0	-13,395.1	-514.3	13,405.0	0.00	0.00	0.00
22,700.0	90.00	180.51	9,000.0	-13,495.1	-515.2	13,505.0	0.00	0.00	0.00
22,800.0	90.00	180.51	9,000.0	-13,595.1	-516.0	13,604.9	0.00	0.00	0.00
22,900.0	90.00	180.51	9,000.0	-13,695.1	-516.9	13,704.9	0.00	0.00	0.00
23,000.0	90.00	180.51	9,000.0	-13,795.1	-517.8	13,804.8	0.00	0.00	0.00
23,100.0	90.00	180.51	9,000.0	-13,895.1	-518.7	13,904.8	0.00	0.00	0.00
23,200.0	90.00	180.51	9,000.0	-13,995.1	-519.6	14,004.8	0.00	0.00	0.00
23,300.0	90.00	180.51	9,000.0	-14,095.1	-520.5	14,104.7	0.00	0.00	0.00
23,400.0	90.00	180.51	9,000.0	-14,195.1	-521.4	14,204.7	0.00	0.00	0.00
23,500.0	90.00	180.51	9,000.0	-14,295.1	-522.2	14,304.6	0.00	0.00	0.00
23,600.0	90.00	180.51	9,000.0	-14,395.1	-523.1	14,404.6	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3161.3usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3161.3usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 704H	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)	
23,700.0	90.00	180.51	9,000.0	-14,495.1	-524.0	14,504.6	0.00	0.00	0.00	
23,800.0	90.00	180.51	9,000.0	-14,595.1	-524.9	14,604.5	0.00	0.00	0.00	
23,900.0	90.00	180.51	9,000.0	-14,695.1	-525.8	14,704.5	0.00	0.00	0.00	
24,000.0	90.00	180.51	9,000.0	-14,795.1	-526.7	14,804.4	0.00	0.00	0.00	
24,100.0	90.00	180.51	9,000.0	-14,895.1	-527.6	14,904.4	0.00	0.00	0.00	
24,200.0	90.00	180.51	9,000.0	-14,995.1	-528.4	15,004.4	0.00	0.00	0.00	
24,300.0	90.00	180.51	9,000.0	-15,095.1	-529.3	15,104.3	0.00	0.00	0.00	
24,400.0	90.00	180.51	9,000.0	-15,195.1	-530.2	15,204.3	0.00	0.00	0.00	
24,424.2	90.00	180.51	9,000.0	-15,219.3	-530.4	15,228.5	0.00	0.00	0.00	
TD at 24424.2										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude	
FTP_FLAMING SNAIL F	0.00	0.00	9,000.0	317.4	-436.1	402,791.10	544,188.70	32° 6' 26.311 N	104° 11' 26.233 W	
- hit/miss target										
- plan misses target center by 172.6usft at 8970.7usft MD (8877.7 TVD, 203.3 N, -393.8 E)										
- Circle (radius 50.0)										
LTP_FLAMING SNAIL F	90.00	180.51	9,000.0	-15,083.9	-563.5	387,389.80	544,061.30	32° 3' 53.892 N	104° 11' 27.950 W	
- hit/miss target										
- plan misses target center by 34.3usft at 24289.1usft MD (9000.0 TVD, -15084.2 N, -529.2 E)										
- Circle (radius 50.0)										
PBHL_FLAMING SNAIL	0.04	180.47	9,000.0	-15,213.9	-564.5	387,259.80	544,060.30	32° 3' 52.606 N	104° 11' 27.964 W	
- hit/miss target										
- plan misses target center by 34.1usft at 24419.1usft MD (9000.0 TVD, -15214.2 N, -530.4 E)										
- Rectangle (sides W100.0 H15,531.5 D20.0)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")	
24,424.3	9,000.0	5-1/2" Production Casing	5-1/2	6-3/4	

Plan Annotations					
Measured Depth (usft)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00	
2,071.3	2,067.5	38.5	-41.7	Start 1833.8 hold at 2071.3 MD	
3,905.1	3,865.0	284.7	-308.9	Start Drop -1.00	
5,047.7	5,000.0	361.6	-392.4	Start 3522.5 hold at 5047.7 MD	
8,570.2	8,522.5	361.6	-392.4	Start DLS 12.00 TFO 180.51	
9,320.2	9,000.0	-115.8	-396.6	Start 15104.1 hold at 9320.2 MD	
24,424.2	9,000.0	-15,219.3	-530.4	TD at 24424.2	

ConocoPhillips Company - Flaming Snail Federal Com 704H

1. Geologic Formations

TVD of target	9,000' EOL	Pilot hole depth	NA
MD at TD:	24,424'	Deepest expected fresh water:	28'

Formation	Depth (TVD) from KB	Water/Mineral Bearing/ Target Zone?	Hazards*
Quaternary Fill	Surface	Water	
Rustler	40	Water	
Top of Salt	521	Salt	
Base of Salt	1942	Salt	
Lamar	2173	Salt Water	
Bell Canyon	2221	Salt Water	
Cherry Canyon	3024	Oil/Gas	
Brushy Canyon	4126	Oil/Gas	
Bone Spring	5710	Oil/Gas	
1st Bone Spring Sand	6643	Oil/Gas	
2nd Bone Spring Sand	7152	Oil/Gas	
3rd Bone Spring Sand	8474	Oil/Gas	
Wolfcamp	8805	Oil/Gas	
Wolfcamp A	8893	Target	
Wolfcamp B		Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	380	10.75"	45.5	J55	BTC	12.02	15.44	41.35	46.04
9.875"	0	5500	7.625"	29.7	L80-ICY	BTC	4.48	2.04	4.44	4.49
8.750"	5500	8300	7.625"	29.7	P110-ICY	W513	5.72	2.04	4.33	2.60
6.75"	0	8100	5.5"	23	P110-CY	BTC	3.74	2.68	3.91	3.91
6.75"	8100	24,424	5.5"	23	P110-CY	W441	3.74	2.68	3.52	3.20
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

2b. Contingency Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
17.50"	0	380	13.375"	54.5	J55	BTC	6.50	11.77	41.19	43.89
12.25"	0	2080	9.625"	40	L80-IC	BTC	4.07	1.64	11.01	11.38
8.75"	1880	8300	7.625"	29.7	P110-ICY	W513	8.47	2.04	4.33	2.60
6.75"	0	8100	5.5"	23	P110-CY	BTC	3.74	2.68	3.91	3.91
6.75"	8100	24,424	5.5"	23	P110-CY	W441	3.74	2.68	3.52	3.20
BLM Minimum Safety Factor							1.125	1	1.6 Dry 1.8 Wet	1.6 Dry 1.8 Wet

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

All casing strings will be tested in accordance with 43 CFR Part 3170 Subpart 3172

Contingency program will be run if large water flows are encountered.

The 5 1/2" W441 casing will be run back 200' into the intermediate casing to ensure the coupling OD clearance is greater than .422" for the cement bond tie in.

December 3, 2024

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ConocoPhillips Company - Flaming Snail Federal Com 704H

	Y or N
Is casing new? If used, attach certification as required in Onshore Order #1	Y
Does casing meet API specifications? If no, attach casing specification sheet.	Y
Is premium or uncommon casing planned? If yes attach casing specification sheet.	Y
Does the above casing design meet or exceed BLM's minimum standards? If not provide justification (loading assumptions, casing design criteria).	Y
Will the intermediate pipe be kept at a minimum 1/3 fluid filled to avoid approaching the collapse pressure rating of the casing?	Y
Is well located within Capitan Reef?	N
If yes, does production casing cement tie back a minimum of 50' above the Reef?	
Is well within the designated 4 string boundary?	
Is well located in SOPA but not in R-111-P?	N
If yes, are the first 2 strings cemented to surface and 3 rd string cement tied back 500' into previous casing?	
Is well located in R-111-P and SOPA?	N
If yes, are the first three strings cemented to surface?	
Is 2 nd string set 100' to 600' below the base of salt?	
Is well located in high Cave/Karst?	N
If yes, are there two strings cemented to surface?	
(For 2 string wells) If yes, is there a contingency casing if lost circulation occurs?	
Is well located in critical Cave/Karst?	N
If yes, are there three strings cemented to surface?	

ConocoPhillips Company - Flaming Snail Federal Com 704H

3. Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	190	12.8	1.75	9	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	250	14.8	1.34	6.34	8	Tail: Class C + 2% CaCl ₂
Inter. Stage 1	570	10.3	3.3	22	24	Halliburton tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	510	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	1230	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

If losses are encountered in the intermediate section a DV/ECP tool will be run ~50' above the Lamar Lime top, cement will be adjusted accordingly if this contingency is necessary.

Volumes Subject to Observed Hole Conditions and/or Fluid Caliper Results

Lab reports with the 500 psi compressive strength time for the cement will be onsite for review.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
Production	7,800'	20% OH in Lateral (KOP to EOL)

3b. Contingency Cementing Program

Casing	# Sks	Wt. lb/ gal	Yld ft3/ sack	H ₂ O gal/sk	500# Comp. Strength (hours)	Slurry Description
Surf.	230	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
Int. #1	210	12.8	1.75	9.21	12	Lead: Class C + 4% Gel + 1% CaCl ₂
	390	14.8	1.35	6.6	8	Tail: Class C + 2% CaCl ₂
Inter. #2 (Liner)	200	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	410	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	1230	13.2	1.34	5.7	19	Tail: 50:50:2 Class H Blend

Contingency program will be run if large water flows are encountered.

Casing String	TOC	% Excess
Surface	0'	50%
1 st Intermediate	0'	50%
2 nd Intermediate	1,880'	20%
Production	8,050'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Flaming Snail Federal Com 704H**4. Pressure Control Equipment**

N	A variance is requested for the use of a diverter on the surface casing. See attached for schematic.
Y	A variance is requested for the use of BOPE break testing on intermediate skids (in accordance with the 30 day full BOPE test requirements).

BOP installed and tested before drilling which hole?	Size?	Min. Required WP	Type	x	Tested to:
12-1/4" or 9-7/8"	13-5/8"	5M	Annular	x	2500psi
			Blind Ram	x	5000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		
6-3/4"	13-5/8"	10M	5M Annular	x	5000psi
			Blind Ram	x	10000psi
			Pipe Ram	x	
			Double Ram	x	
			Other*		

BOP/BOPE will be tested by an independent service company to 250 psi low and the high pressure indicated above per 43 CFR Part 3170 Subpart 3172 requirements. The System may be upgraded to a higher pressure but still tested to the working pressure listed in the table above. If the system is upgraded all the components installed will be functional and tested.

Pipe rams will be operationally checked each 24 hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment will include a Kelly cock and floor safety valve (inside BOP) and choke lines and choke manifold. See attached schematics.

Y	Formation integrity test will be performed per Onshore Order #2. On Exploratory wells or on that portion of any well approved for a 5M BOPE system or greater, a pressure integrity test of each casing shoe shall be performed. Will be tested in accordance with 43 CFR Part 3170 Subpart 3172.
Y	A variance is requested for the use of a flexible choke line from the BOP to Choke Manifold. See attached for specs and hydrostatic test chart.
N	Are anchors required by manufacturer?
Y	A multibowl wellhead is being used. The BOP will be tested per 43 CFR Part 3170 Subpart 3172 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.

ConocoPhillips Company - Flaming Snail Federal Com 704H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.6 - 8.8	28-34	N/C
Surf csg	7-5/8" Int shoe	Brine Diesel Emulsion	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

What will be used to monitor the loss or gain of fluid?	PVT/Pason/Visual Monitoring
---	-----------------------------

5b. Contingency 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	Brine	8.4 - 10	28-34	N/C
9-5/8" Int shoe	7-5/8" Int shoe	Brine	8.4 - 10	28-34	N/C
7-5/8" Int shoe	Lateral TD	OBM	9.6 - 13.5	35-45	<20

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	

ConocoPhillips Company - Flaming Snail Federal Com 704H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	6320 psi at 9000' TVD
Abnormal Temperature	NO 150 Deg. F.

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

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

Hydrogen Sulfide (H₂S) monitors will be installed prior to drilling out the surface shoe. If H₂S is detected in concentrations greater than 100 ppm, the operator will comply with the provisions of 43 CFR Part 3170 Subpart 3176. 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

C-102 Submit Electronically Via OCD Permitting	State of New Mexico Energy, Minerals & Natural Resources Department OIL CONSERVATION DIVISION		Revised July 9, 2024	
			Submittal Type:	☐ Initial Submittal
				☒ Amended Report
		☐ As Drilled		

WELL LOCATION INFORMATION

API Number 30-015-54153	Pool Code	Pool Name
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 704H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3129.3'
Surface Owner: ☐ State ☐ Fee ☐ Tribal ☒ Federal		Mineral Owner: ☐ State ☒ Fee ☐ Tribal ☒ Federal

Surface Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	28	25-S	27-E		655 FNL	1005 FEL	32.106556°N	104.189707°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	4	26-S	27-E		200 FSL	1436 FEL	32.064735°N	104.191594°W	EDDY

Dedicated Acres 1950	Infill or Defining Well Infill	Defining Well API 30015-54649	Overlapping Spacing Unit (Y/N)	Consolidation Code Com
Order Numbers.			Well setbacks are under Common Ownership: ☒ Yes ☐ No	

Kick Off Point (KOP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	28	25-S	27-E		655 FNL	1005 FEL	32.106556°N	104.189707°W	EDDY

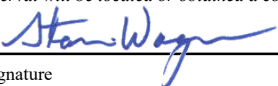
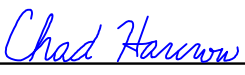
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
B	28	25-S	27-E		330 FNL	1436 FEL	32.107430°N	104.199115°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
0	4	26-S	27-E		330 FSL	1436 FEL	32.065092°N	104.191590°W	EDDY

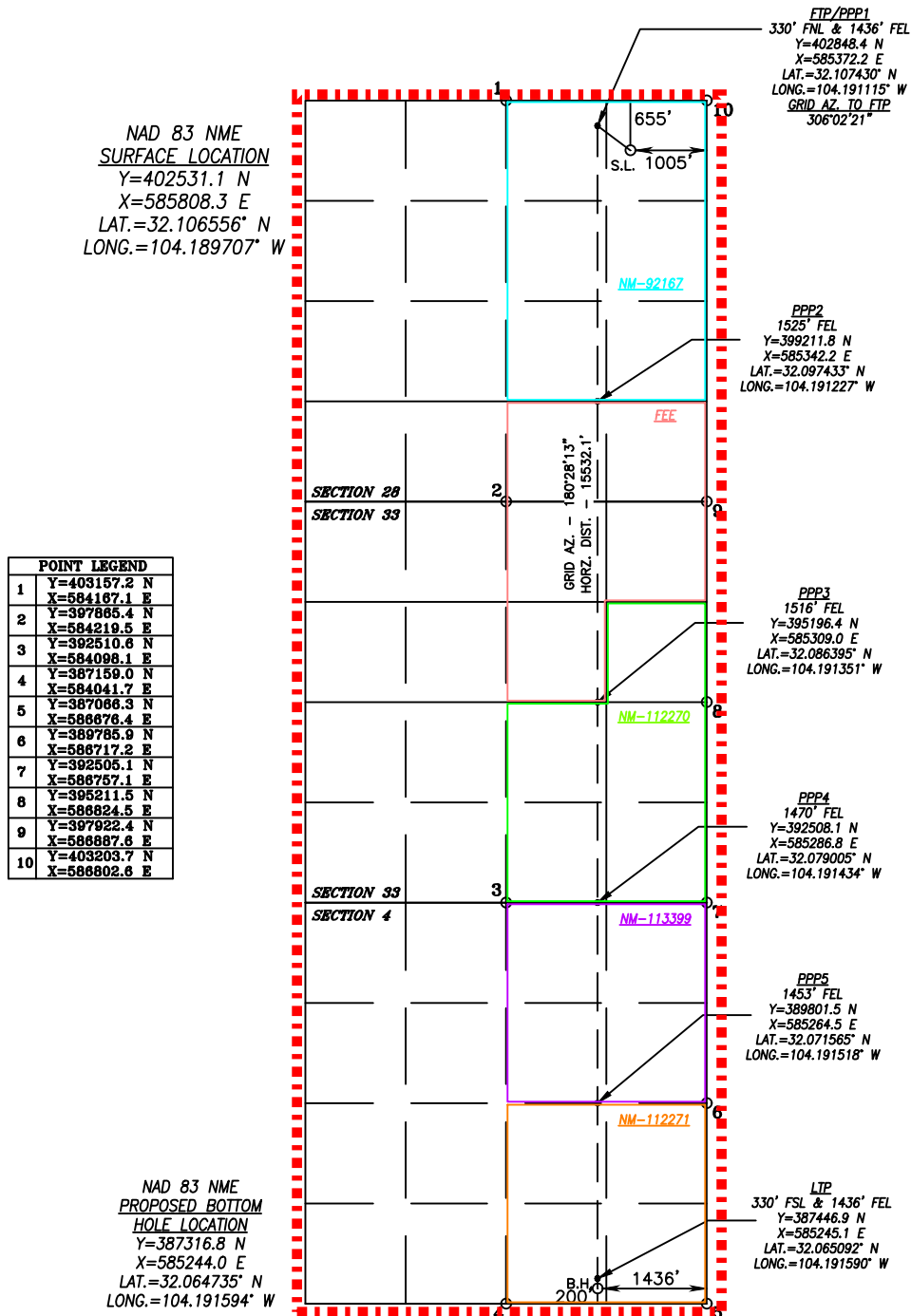
Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
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OPERATOR CERTIFICATIONS <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and, if the well is a vertical or directional well, that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of a working interest or unleased mineral interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> <i>If this well is a horizontal well, I further certify that this organization has received the consent of at least one lessee or owner of a working interest or unleased mineral interest in each tract (in the target pool or formation) in which any part of the well's completed interval will be located or obtained a compulsory pooling order from the division.</i>		SURVEYOR CERTIFICATIONS <i>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</i>	
 Signature Date Stan Wagner 12/03/2024		 Signature and Seal of Professional Surveyor 11/1/24	
Printed Name Email Address		Certificate Number 17777	Date of Survey MAY 18, 2022
		W.O.#24-1035	DRAWN BY: WN
		PAGE 1 OF 2	

Note: 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.

This grid represents a standard section. You may superimpose a non-standard section, or larger area, over this grid. Operators must outline the dedicated acreage in a red box, clearly show the well surface location and bottom hole location, if it is directionally drilled, with the dimensions from the section lines in the cardinal directions. If this is a horizontal wellbore show on this plat the location of the First Take Point and Last Take Point, and the point within the Completed interval (other than the First Take Point or Last Take Point) that is closest to any outer boundary of the tract.

Surveyors shall use the latest United States government survey or dependent resurvey. Well locations will be in reference to the New Mexico Principal Meridian. If the land is not surveyed, contact the OCD Engineering Bureau. Independent subdivision surveys will not be acceptable.



DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM 704H

OWB

PWP0

Anticollision Report

11 November, 2024

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 501H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 100-r.5 SDI_KPR_WL_NS-CT, 6969-r.5 MWD+IFR1+MS, 8009-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
500.0	500.0	496.6	496.6	2.6	3.2	169.21	-149.3	28.4	151.9	145.8	6.14	24.730	
600.0	600.0	599.9	599.9	2.8	3.2	169.05	-147.7	28.6	150.5	144.1	6.44	23.377	
700.0	700.0	703.0	702.8	3.1	3.2	166.95	-142.5	33.0	146.5	139.8	6.72	21.799	
800.0	800.0	804.9	804.0	3.3	3.2	162.91	-134.4	41.3	140.8	133.8	6.99	20.137	
900.0	900.0	904.3	902.3	3.6	3.3	157.58	-124.9	51.5	135.3	128.0	7.26	18.632	
1,000.0	1,000.0	1,003.4	999.7	3.8	3.3	149.86	-113.3	65.8	131.1	123.6	7.51	17.452	
1,096.7	1,096.7	1,098.2	1,092.3	4.0	3.4	140.76	-100.3	81.9	129.4	121.7	7.74	16.716	CC
1,100.0	1,100.0	1,101.5	1,095.4	4.0	3.4	140.43	-99.8	82.5	129.4	121.7	7.75	16.699	ES
1,200.0	1,200.0	1,199.2	1,190.4	4.2	3.4	130.34	-85.1	100.2	131.6	123.6	7.98	16.500	SF
1,300.0	1,300.0	1,297.6	1,286.2	4.4	3.5	121.08	-70.6	117.1	137.0	128.8	8.20	16.712	
1,400.0	1,400.0	1,392.9	1,379.0	4.6	3.6	112.80	-56.2	133.8	146.0	137.6	8.42	17.344	
1,500.0	1,500.0	1,488.6	1,471.8	4.7	3.7	105.45	-42.0	151.8	159.3	150.7	8.65	18.413	
1,600.0	1,600.0	1,586.2	1,566.7	5.0	3.8	146.92	-28.4	170.5	176.7	167.8	8.99	19.669	
1,700.0	1,699.8	1,684.8	1,662.8	5.3	3.9	142.87	-15.6	188.3	197.2	187.9	9.32	21.158	
1,800.0	1,799.5	1,778.5	1,754.0	5.6	4.1	140.01	-2.9	205.5	221.3	211.7	9.64	22.946	
1,900.0	1,898.7	1,873.3	1,845.9	5.9	4.2	137.77	11.3	223.9	249.2	239.2	9.98	24.966	
2,000.0	1,997.5	1,967.3	1,937.1	6.2	4.3	136.50	24.7	242.5	280.2	269.9	10.34	27.111	
2,071.3	2,067.5	2,037.7	2,005.4	6.4	4.4	136.03	34.3	256.4	303.8	293.2	10.56	28.757	
2,100.0	2,095.7	2,067.9	2,034.8	6.4	4.5	136.08	38.2	262.0	313.1	302.5	10.65	29.411	
2,200.0	2,193.7	2,177.9	2,142.4	6.7	4.6	136.09	53.2	279.4	343.2	332.1	11.04	31.072	
2,300.0	2,291.7	2,279.1	2,241.7	7.0	4.8	136.01	67.7	292.3	370.2	358.8	11.41	32.429	
2,400.0	2,389.7	2,366.6	2,327.5	7.4	4.9	135.87	80.7	303.9	397.7	386.0	11.76	33.823	
2,500.0	2,487.7	2,461.2	2,419.9	7.7	5.1	135.61	95.7	317.6	426.6	414.5	12.14	35.140	
2,600.0	2,585.7	2,552.0	2,508.2	8.0	5.3	135.20	111.4	331.3	456.0	443.5	12.52	36.430	
2,700.0	2,683.8	2,648.3	2,601.5	8.4	5.4	134.59	130.0	346.5	486.2	473.2	12.92	37.624	
2,800.0	2,781.8	2,749.6	2,699.9	8.8	5.6	134.09	148.9	361.4	515.3	502.0	13.35	38.595	
2,900.0	2,879.8	2,845.3	2,792.9	9.2	5.8	133.69	166.7	375.0	544.0	530.2	13.77	39.507	
3,000.0	2,977.8	2,929.6	2,874.5	9.6	5.9	133.22	183.7	388.0	574.0	559.9	14.15	40.567	
3,100.0	3,075.8	3,039.8	2,981.0	10.0	6.1	132.63	206.4	404.9	604.0	589.4	14.63	41.275	
3,200.0	3,173.9	3,148.0	3,086.5	10.4	6.3	132.31	226.3	418.5	631.2	616.1	15.11	41.773	
3,300.0	3,271.9	3,240.8	3,177.1	10.8	6.5	132.11	242.9	429.6	657.8	642.2	15.54	42.328	
3,400.0	3,369.9	3,318.0	3,252.0	11.2	6.7	131.87	257.7	440.5	686.5	670.5	15.92	43.130	
3,500.0	3,467.9	3,417.9	3,348.8	11.6	6.9	131.52	277.7	455.3	716.1	699.7	16.38	43.709	
3,600.0	3,565.9	3,524.0	3,451.9	12.0	7.1	131.25	298.0	469.6	744.2	727.3	16.88	44.097	
3,700.0	3,663.9	3,608.5	3,533.9	12.4	7.2	131.02	314.6	481.4	772.8	755.5	17.29	44.700	
3,800.0	3,762.0	3,719.1	3,641.4	12.9	7.5	130.76	336.0	496.3	801.1	783.3	17.81	44.983	
3,900.0	3,860.0	3,786.4	3,706.8	13.3	7.6	130.64	348.6	506.0	830.1	812.0	18.17	45.693	
3,905.1	3,865.0	3,790.2	3,710.5	13.3	7.6	130.63	349.4	506.6	831.7	813.5	18.19	45.730	
4,000.0	3,958.1	3,876.1	3,793.6	13.7	7.8	130.66	366.0	520.9	861.0	842.4	18.61	46.274	
4,100.0	4,056.6	3,979.1	3,893.3	14.2	8.0	130.60	385.6	537.9	890.5	871.4	19.10	46.631	
4,200.0	4,155.4	4,076.8	3,988.0	14.6	8.2	130.50	403.6	553.4	918.3	898.8	19.55	46.973	
4,300.0	4,254.4	4,164.6	4,073.1	15.0	8.4	130.42	419.1	568.0	945.7	925.7	19.95	47.401	
4,400.0	4,353.7	4,295.7	4,201.1	15.4	8.6	130.27	439.1	588.0	970.3	949.8	20.53	47.263	
4,500.0	4,453.2	4,397.7	4,301.3	15.8	8.8	130.19	453.0	601.6	991.9	970.9	20.97	47.308	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 502H - OWB - AWP													Offset Site Error: 0.0 usft
Survey Program: 96-r.5 SDI_KPR_WL_NS-CT, 521-r.5 MWD+IFR1+MS, 7125-r.5 MWD+IFR1+MS													Offset Well Error: 3.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		Rule Assigned:		Warning			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
0.0	0.0	0.0	0.0	0.0	3.0	-169.64	-150.5	-27.5	153.0				
100.0	100.0	95.5	95.5	0.8	3.0	-169.55	-150.7	-27.8	153.2	148.4	4.86	31.528	
200.0	200.0	196.4	196.4	1.4	3.1	-169.36	-150.8	-28.3	153.4	148.2	5.21	29.449	
300.0	300.0	296.9	296.9	1.9	3.1	-169.31	-150.5	-28.4	153.1	147.6	5.54	27.666	
400.0	400.0	396.9	396.9	2.2	3.4	-169.21	-150.0	-28.6	152.7	146.6	6.14	24.881	
500.0	500.0	496.9	496.9	2.6	4.0	-168.75	-149.4	-29.7	152.3	145.3	7.07	21.538	
600.0	600.0	596.7	596.7	2.8	4.3	-167.87	-148.6	-31.9	152.0	144.3	7.65	19.876	
700.0	700.0	698.3	698.1	3.1	4.5	-166.24	-147.0	-36.0	151.4	143.4	8.04	18.834	
800.0	800.0	800.4	800.0	3.3	4.9	-163.43	-143.3	-42.6	149.5	141.1	8.43	17.746	
900.0	900.0	903.2	902.2	3.6	5.2	-159.31	-136.8	-51.6	146.3	137.5	8.79	16.639	
1,000.0	1,000.0	1,006.4	1,004.4	3.8	5.4	-154.04	-126.9	-61.8	141.4	132.3	9.11	15.512	
1,100.0	1,100.0	1,107.6	1,104.2	4.0	5.8	-147.63	-114.1	-72.4	135.4	125.9	9.45	14.324	
1,200.0	1,200.0	1,206.6	1,201.7	4.2	6.1	-140.39	-100.4	-83.0	130.4	120.6	9.79	13.322	
1,300.0	1,300.0	1,305.8	1,299.3	4.4	6.4	-132.55	-86.0	-93.7	127.2	117.1	10.14	12.540	
1,400.0	1,400.0	1,405.4	1,397.1	4.6	6.7	-124.15	-70.6	-104.1	125.7	115.2	10.54	11.925	
1,461.1	1,461.1	1,466.7	1,457.4	4.7	7.0	-119.29	-61.4	-109.5	125.6	114.7	10.81	11.615 CC	
1,500.0	1,500.0	1,505.5	1,495.8	4.7	7.1	-116.33	-55.7	-112.6	125.6	114.7	10.99	11.435	
1,600.0	1,600.0	1,603.8	1,592.6	5.0	7.5	-62.22	-41.1	-120.1	126.1	114.7	11.49	10.981	
1,700.0	1,699.8	1,701.4	1,688.3	5.3	7.9	-55.63	-24.3	-129.9	128.4	116.3	12.07	10.638	
1,800.0	1,799.5	1,801.7	1,786.0	5.6	8.3	-49.18	-4.5	-140.2	129.9	117.2	12.73	10.203	
1,900.0	1,898.7	1,902.5	1,884.1	5.9	8.7	-43.38	16.9	-149.5	129.5	116.0	13.46	9.620	
2,000.0	1,997.5	1,998.9	1,978.2	6.2	9.1	-39.36	36.0	-158.2	127.3	113.1	14.19	8.972	
2,065.6	2,061.9	2,060.8	2,038.4	6.4	9.3	-37.20	48.5	-165.9	127.0	112.4	14.63	8.680	
2,071.3	2,067.5	2,066.3	2,043.6	6.4	9.4	-37.03	49.6	-166.7	127.0	112.3	14.67	8.658 ES	
2,100.0	2,095.7	2,093.6	2,070.2	6.4	9.5	-36.22	55.0	-170.6	127.2	112.3	14.84	8.568	
2,200.0	2,193.7	2,189.6	2,163.0	6.7	9.9	-33.75	73.7	-186.5	130.1	114.5	15.55	8.365	
2,300.0	2,291.7	2,289.1	2,258.9	7.0	10.3	-31.72	92.4	-204.9	135.0	118.7	16.32	8.272	
2,400.0	2,389.7	2,388.7	2,355.1	7.4	10.8	-29.74	111.3	-222.9	139.8	122.7	17.14	8.157	
2,500.0	2,487.7	2,486.3	2,448.9	7.7	11.2	-27.56	130.8	-241.1	145.6	127.6	17.98	8.095	
2,600.0	2,585.7	2,585.6	2,544.0	8.0	11.7	-25.14	152.0	-260.4	152.7	133.8	18.91	8.075	
2,700.0	2,683.8	2,686.6	2,640.9	8.4	12.1	-23.22	172.5	-279.9	159.6	139.7	19.85	8.039	
2,800.0	2,781.8	2,786.1	2,736.7	8.8	12.6	-21.72	192.0	-298.8	166.1	145.4	20.76	8.003	
2,900.0	2,879.8	2,881.8	2,828.3	9.2	13.1	-19.87	212.5	-317.5	174.0	152.3	21.69	8.022	
3,000.0	2,977.8	2,985.2	2,926.9	9.6	13.6	-17.58	236.1	-337.2	182.2	159.4	22.78	7.999	
3,100.0	3,075.8	3,087.4	3,025.3	10.0	14.0	-16.16	256.7	-355.9	188.7	164.9	23.78	7.935	
3,200.0	3,173.9	3,187.4	3,121.9	10.4	14.5	-15.29	275.2	-374.2	194.5	169.8	24.71	7.871	
3,300.0	3,271.9	3,285.1	3,215.8	10.8	15.0	-14.10	294.8	-392.0	201.1	175.4	25.64	7.841	
3,400.0	3,369.9	3,386.2	3,313.2	11.2	15.4	-12.95	315.1	-410.5	207.8	181.2	26.63	7.804	
3,500.0	3,467.9	3,486.5	3,410.0	11.6	15.9	-12.05	334.4	-428.6	213.8	186.2	27.59	7.748	
3,600.0	3,565.9	3,584.8	3,504.4	12.0	16.4	-10.42	356.1	-445.1	220.5	191.9	28.60	7.711	
3,700.0	3,663.9	3,686.7	3,602.1	12.4	16.9	-8.39	379.9	-461.1	227.1	197.5	29.66	7.656	
3,800.0	3,762.0	3,789.4	3,700.9	12.9	17.4	-6.14	404.2	-475.3	232.8	202.0	30.74	7.571	
3,900.0	3,860.0	3,891.5	3,799.6	13.3	17.9	-4.27	426.7	-489.1	237.3	205.5	31.78	7.468	
3,905.1	3,865.0	3,896.7	3,804.6	13.3	17.9	-4.18	427.8	-489.8	237.5	205.7	31.83	7.463	
4,000.0	3,958.1	3,992.5	3,897.4	13.7	18.3	-2.68	447.8	-502.7	242.1	209.4	32.77	7.390	
4,100.0	4,056.6	4,095.4	3,997.3	14.2	18.8	-1.41	467.9	-516.7	248.1	214.3	33.74	7.351	
4,200.0	4,155.4	4,201.0	4,100.4	14.6	19.3	-0.48	486.2	-530.7	253.9	219.2	34.71	7.316	
4,300.0	4,254.4	4,310.0	4,207.4	15.0	19.8	0.53	503.2	-542.5	258.7	223.0	35.64	7.259	
4,400.0	4,353.7	4,414.3	4,310.2	15.4	20.3	1.46	517.5	-551.7	262.5	226.0	36.50	7.192	
4,500.0	4,453.2	4,518.8	4,413.7	15.8	20.7	1.78	528.8	-561.7	266.5	229.2	37.31	7.143	
4,600.0	4,552.8	4,626.1	4,520.2	16.2	21.2	2.18	538.9	-569.6	269.7	231.7	38.06	7.086	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 502H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 96-r.5 SDI_KPR_WL_NS-CT, 521-r.5 MWD+IFR1+MS, 7125-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		No-Go		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)	Distance (usft)	Factor	
4,700.0	4,652.5	4,729.3	4,622.8	16.5	21.6	2.65	547.6	-575.7	272.9	234.1	38.79	7.036	
4,800.0	4,752.4	4,832.0	4,725.1	16.9	22.0	3.05	555.4	-581.0	276.7	237.2	39.49	7.008	
4,900.0	4,852.3	4,937.6	4,830.4	17.2	22.4	3.41	562.3	-585.6	281.1	241.0	40.11	7.009	
5,000.0	4,952.3	5,047.5	4,940.1	17.4	22.7	3.83	567.5	-587.8	284.2	243.6	40.54	7.010	
5,047.7	5,000.0	5,097.6	4,990.2	17.5	22.9	-43.32	569.0	-588.0	285.1	244.4	40.69	7.006	
5,100.0	5,052.3	5,149.9	5,042.5	17.5	23.0	-43.16	570.3	-588.1	286.2	245.4	40.85	7.007	
5,200.0	5,152.3	5,250.8	5,143.3	17.6	23.2	-42.87	572.8	-588.5	288.2	247.1	41.15	7.004	
5,300.0	5,252.3	5,351.8	5,244.4	17.6	23.5	-42.59	575.0	-588.6	289.9	248.5	41.44	6.996	
5,400.0	5,352.3	5,452.2	5,344.7	17.7	23.7	-42.40	576.7	-588.8	291.3	249.6	41.73	6.980	
5,500.0	5,452.3	5,552.3	5,444.8	17.7	24.0	-42.28	578.1	-589.2	292.6	250.6	42.05	6.959	
5,600.0	5,552.3	5,652.8	5,545.3	17.8	24.2	-42.16	579.4	-589.6	293.8	251.5	42.35	6.938	
5,700.0	5,652.3	5,752.7	5,645.2	17.8	24.4	-42.05	580.6	-589.9	295.0	252.3	42.66	6.915	
5,800.0	5,752.3	5,853.2	5,745.7	17.9	24.7	-42.00	581.6	-590.5	296.1	253.2	42.95	6.895	
5,900.0	5,852.3	5,955.3	5,847.7	18.0	24.8	-41.87	582.5	-590.4	296.7	253.5	43.12	6.879	
6,000.0	5,952.3	6,055.0	5,947.5	18.0	25.0	-41.64	583.5	-589.7	296.9	253.6	43.29	6.860	
6,100.0	6,052.3	6,155.3	6,047.8	18.1	25.0	-41.43	584.6	-589.2	297.4	254.0	43.43	6.849	
6,200.0	6,152.3	6,260.7	6,153.1	18.1	25.0	-41.52	584.0	-589.3	297.1	253.7	43.32	6.857	
6,300.0	6,252.3	6,363.9	6,256.4	18.2	24.8	-41.87	580.9	-589.0	294.6	251.6	43.09	6.838	
6,400.0	6,352.3	6,463.9	6,356.3	18.3	24.6	-42.20	577.8	-588.5	292.0	249.1	42.90	6.807	
6,500.0	6,452.3	6,560.8	6,453.1	18.3	24.4	-42.43	575.5	-587.9	289.8	246.9	42.82	6.767	
6,600.0	6,552.3	6,659.0	6,551.3	18.4	24.3	-42.72	573.7	-588.2	288.7	245.9	42.78	6.749	
6,700.0	6,652.3	6,757.1	6,649.4	18.4	24.2	-43.14	571.8	-589.3	288.0	245.2	42.81	6.728	
6,800.0	6,752.3	6,856.9	6,749.2	18.5	24.2	-43.53	570.3	-590.7	287.8	245.0	42.85	6.717	
6,857.8	6,810.2	6,914.2	6,806.5	18.5	24.2	-43.77	569.4	-591.5	287.8	244.9	42.91	6.707	
6,900.0	6,852.3	6,955.7	6,847.9	18.5	24.2	-43.94	568.8	-592.1	287.8	244.9	42.95	6.701	
7,000.0	6,952.3	7,065.0	6,957.2	18.6	24.4	-44.61	565.6	-593.7	286.7	243.7	42.98	6.671	
7,100.0	7,052.3	7,211.5	7,102.2	18.7	24.6	-47.42	546.8	-593.9	278.9	237.4	41.49	6.721	
7,200.0	7,152.3	7,349.9	7,227.9	18.7	24.7	-57.20	490.1	-591.8	250.2	211.2	39.02	6.411	
7,300.0	7,252.3	7,451.2	7,309.8	18.8	24.7	-70.85	430.8	-591.7	219.7	182.3	37.39	5.877	
7,400.0	7,352.3	7,532.0	7,364.9	18.8	24.8	-87.09	371.7	-591.6	200.1	164.9	35.20	5.686 SF	
7,427.2	7,379.5	7,550.2	7,375.8	18.9	24.8	-91.25	357.3	-591.4	199.0	164.6	34.45	5.777	
7,500.0	7,452.3	7,594.0	7,401.2	18.9	24.8	-101.43	321.6	-590.3	207.4	175.3	32.12	6.458	
7,600.0	7,552.3	7,642.7	7,427.7	19.0	24.9	-112.39	280.8	-588.6	244.3	214.9	29.38	8.314	
7,700.0	7,652.3	7,686.1	7,449.0	19.0	24.9	-121.38	243.1	-586.8	302.8	275.1	27.71	10.926	
7,800.0	7,752.3	7,723.6	7,466.5	19.1	24.9	-128.21	209.8	-585.2	373.9	346.8	27.02	13.835	
7,900.0	7,852.3	7,760.2	7,482.7	19.2	25.0	-133.94	177.1	-583.9	452.4	425.6	26.80	16.879	
8,000.0	7,952.3	7,790.0	7,495.5	19.2	25.0	-137.99	150.2	-582.8	535.0	508.2	26.85	19.929	
8,100.0	8,052.3	7,813.2	7,504.9	19.3	25.0	-140.80	129.1	-582.0	621.0	593.9	27.06	22.952	
8,200.0	8,152.3	7,838.0	7,513.9	19.3	25.0	-143.54	105.9	-581.3	709.9	682.6	27.31	25.996	
8,300.0	8,252.3	7,838.0	7,513.9	19.4	25.0	-143.54	105.9	-581.3	800.6	773.0	27.61	29.000	
8,400.0	8,352.3	7,857.9	7,520.3	19.5	25.0	-145.53	87.1	-580.9	892.7	864.9	27.88	32.023	
8,500.0	8,452.3	7,871.0	7,524.3	19.5	25.0	-146.74	74.6	-580.7	986.0	957.9	28.17	35.000	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 520H - OWB - AWP													Offset Site Error:	0.0 usft
Survey Program: 26-r.5 SDI_KPR_ADK, 7433-r.5 MWD+IFR1+MS													Offset Well Error:	3.0 usft
Reference	Offset	Semi Major Axis		Distance		Rule Assigned:		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.0	0.0	0.0	3.0	179.08	-149.9	2.4	150.0					
100.0	100.0	95.4	95.4	0.8	3.0	179.29	-150.0	1.9	150.0	145.2	4.86	30.892		
200.0	200.0	196.1	196.0	1.4	3.1	-179.81	-150.0	-0.5	150.0	144.8	5.20	28.849		
230.1	230.1	226.1	226.0	1.6	3.1	-179.46	-150.0	-1.4	150.0	144.7	5.29	28.336		
300.0	300.0	295.7	295.6	1.9	3.2	-178.60	-150.0	-3.7	150.1	144.6	5.54	27.098		
400.0	400.0	395.5	395.4	2.2	3.3	-177.14	-150.2	-7.5	150.4	144.5	5.87	25.600		
500.0	500.0	495.6	495.3	2.6	3.5	-175.61	-150.3	-11.5	150.8	144.5	6.21	24.278		
600.0	600.0	595.7	595.4	2.8	3.7	-174.06	-150.4	-15.7	151.2	144.7	6.54	23.103		
700.0	700.0	698.2	697.9	3.1	3.8	-173.68	-149.7	-16.6	150.7	143.8	6.87	21.926		
800.0	800.0	797.6	797.2	3.3	3.8	-173.93	-148.7	-15.8	149.5	142.3	7.20	20.770		
900.0	900.0	896.7	896.3	3.6	3.8	-174.28	-148.3	-14.8	149.0	141.5	7.53	19.791		
1,000.0	1,000.0	997.2	996.8	3.8	3.9	-174.80	-147.9	-13.5	148.5	140.7	7.86	18.894		
1,100.0	1,100.0	1,097.3	1,096.9	4.0	3.9	-175.47	-147.5	-11.7	148.0	139.8	8.19	18.055		
1,200.0	1,200.0	1,197.9	1,197.5	4.2	4.0	-176.16	-146.8	-9.9	147.1	138.6	8.53	17.236		
1,300.0	1,300.0	1,298.2	1,297.7	4.4	4.1	-176.67	-145.8	-8.5	146.0	137.1	8.88	16.437		
1,400.0	1,400.0	1,399.7	1,399.3	4.6	4.3	-177.53	-143.9	-6.2	144.1	134.9	9.24	15.589		
1,500.0	1,500.0	1,502.5	1,501.9	4.7	4.5	-179.09	-140.8	-2.2	141.0	131.4	9.62	14.663		
1,600.0	1,600.0	1,606.2	1,605.4	5.0	4.7	-134.12	-135.3	2.0	136.9	126.8	10.06	13.614		
1,700.0	1,699.8	1,708.8	1,707.5	5.3	5.0	-137.44	-126.6	5.4	132.3	121.8	10.54	12.560		
1,790.5	1,790.0	1,798.0	1,796.3	5.5	5.3	-141.82	-118.6	9.6	130.6	119.6	10.99	11.879 CC		
1,800.0	1,799.5	1,807.4	1,805.6	5.6	5.3	-142.36	-117.7	10.1	130.6	119.5	11.04	11.829 ES		
1,900.0	1,898.7	1,909.7	1,907.3	5.9	5.7	-148.51	-107.4	15.0	131.8	120.3	11.56	11.405		
2,000.0	1,997.5	2,014.3	2,011.0	6.2	6.1	-154.82	-94.4	17.9	134.7	122.6	12.12	11.116		
2,071.3	2,067.5	2,088.6	2,084.4	6.4	6.3	-158.51	-83.1	16.5	136.4	123.9	12.48	10.924		
2,100.0	2,095.7	2,117.0	2,112.4	6.4	6.4	-159.87	-78.6	15.6	137.3	124.7	12.62	10.878		
2,200.0	2,193.7	2,216.9	2,211.2	6.7	6.8	-164.30	-63.4	12.4	141.3	128.1	13.20	10.705		
2,300.0	2,291.7	2,317.9	2,310.7	7.0	7.2	-168.67	-46.5	8.6	144.6	130.8	13.79	10.489		
2,400.0	2,389.7	2,417.0	2,408.2	7.4	7.6	-172.77	-29.9	4.8	148.6	134.2	14.38	10.332		
2,500.0	2,487.7	2,516.4	2,506.1	7.7	8.0	-176.79	-13.0	1.5	153.5	138.5	14.97	10.252		
2,600.0	2,585.7	2,614.4	2,602.6	8.0	8.4	179.18	4.2	-1.2	159.2	143.7	15.53	10.248		
2,700.0	2,683.8	2,713.3	2,699.8	8.4	8.9	174.63	22.8	-1.8	166.5	150.5	16.03	10.385		
2,800.0	2,781.8	2,811.9	2,796.6	8.8	9.3	170.64	40.9	-2.7	174.8	158.3	16.52	10.579		
2,900.0	2,879.8	2,911.3	2,894.6	9.2	9.7	167.47	58.0	-4.4	183.7	166.7	17.03	10.789		
3,000.0	2,977.8	3,012.7	2,994.4	9.6	10.2	164.48	75.9	-6.5	192.7	175.2	17.53	10.992		
3,100.0	3,075.8	3,111.8	3,091.5	10.0	10.7	161.34	95.1	-8.5	201.4	183.4	17.99	11.196		
3,200.0	3,173.9	3,205.6	3,183.4	10.4	11.1	158.31	113.9	-8.8	212.0	193.6	18.40	11.518		
3,300.0	3,271.9	3,304.9	3,280.6	10.8	11.6	155.15	134.4	-7.9	224.1	205.3	18.79	11.926		
3,400.0	3,369.9	3,403.8	3,377.4	11.2	12.1	152.49	154.2	-7.2	236.8	217.6	19.20	12.334		
3,500.0	3,467.9	3,503.0	3,474.9	11.6	12.5	150.37	173.0	-7.1	249.7	230.0	19.64	12.713		
3,600.0	3,565.9	3,598.2	3,568.1	12.0	13.0	148.21	192.4	-6.1	263.4	243.4	20.04	13.147		
3,700.0	3,663.9	3,696.6	3,664.3	12.4	13.5	146.01	213.1	-4.4	278.2	257.7	20.44	13.608		
3,800.0	3,762.0	3,794.9	3,760.5	12.9	14.0	144.26	232.8	-2.7	293.3	272.4	20.87	14.052		
3,900.0	3,860.0	3,894.5	3,858.2	13.3	14.4	142.80	252.0	-1.4	308.4	287.1	21.34	14.457		
3,905.1	3,865.0	3,899.5	3,863.2	13.3	14.5	142.73	252.9	-1.3	309.2	287.9	21.36	14.477		
4,000.0	3,958.1	3,992.9	3,954.9	13.7	14.9	141.60	270.3	-0.3	322.9	301.1	21.79	14.820		
4,100.0	4,056.6	4,092.0	4,052.1	14.2	15.4	140.09	290.1	1.0	336.4	314.2	22.21	15.143		
4,200.0	4,155.4	4,198.8	4,156.7	14.6	15.9	138.45	311.1	1.4	347.9	325.3	22.65	15.360		
4,300.0	4,254.4	4,301.7	4,257.7	15.0	16.4	136.80	331.1	-0.3	356.4	333.3	23.05	15.459		
4,400.0	4,353.7	4,402.2	4,356.6	15.4	16.9	135.41	348.4	-2.6	363.1	339.7	23.44	15.491		
4,500.0	4,453.2	4,500.9	4,454.0	15.8	17.4	134.07	364.4	-5.2	368.6	344.8	23.81	15.482		
4,600.0	4,552.8	4,596.8	4,548.6	16.2	17.9	132.53	380.5	-7.0	373.8	349.7	24.13	15.493		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 520H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 26-r.5 SDI_KPR_ADK, 7433-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,700.0	4,652.5	4,689.4	4,639.6	16.5	18.3	130.76	397.2	-7.4	379.8	355.3	24.41	15.560	
4,800.0	4,752.4	4,787.5	4,735.9	16.9	18.8	128.63	415.8	-7.1	385.9	361.2	24.70	15.625	
4,900.0	4,852.3	4,886.6	4,833.3	17.2	19.3	126.42	434.1	-6.7	391.6	366.6	24.99	15.668	
5,000.0	4,952.3	4,986.9	4,932.0	17.4	19.8	124.12	452.0	-6.4	396.6	371.3	25.31	15.673	
5,047.7	5,000.0	5,033.6	4,978.0	17.5	20.0	75.67	460.2	-6.5	398.7	373.3	25.42	15.685	
5,100.0	5,052.3	5,085.5	5,029.1	17.5	20.3	74.45	469.0	-6.4	401.2	375.6	25.55	15.700	
5,200.0	5,152.3	5,183.6	5,125.9	17.6	20.7	72.24	485.4	-5.9	406.5	380.6	25.88	15.704	
5,300.0	5,252.3	5,284.1	5,225.1	17.6	21.2	70.12	501.5	-5.4	412.2	385.9	26.29	15.678	
5,400.0	5,352.3	5,387.6	5,327.6	17.7	21.7	68.39	515.2	-4.7	417.5	390.8	26.74	15.613	
5,500.0	5,452.3	5,489.4	5,428.8	17.7	22.2	66.92	527.0	-4.3	422.3	395.1	27.20	15.525	
5,600.0	5,552.3	5,592.7	5,531.5	17.8	22.6	65.61	537.6	-4.2	426.5	398.8	27.67	15.414	
5,700.0	5,652.3	5,694.3	5,632.7	17.8	23.1	64.49	546.7	-4.4	430.1	402.0	28.13	15.289	
5,800.0	5,752.3	5,799.6	5,737.6	17.9	23.5	63.46	555.1	-5.1	433.1	404.5	28.59	15.147	
5,900.0	5,852.3	5,901.9	5,839.8	18.0	24.0	62.64	561.6	-5.9	435.3	406.2	29.02	14.998	
6,000.0	5,952.3	6,005.7	5,943.4	18.0	24.4	61.91	567.2	-7.0	436.8	407.4	29.43	14.844	
6,100.0	6,052.3	6,108.6	6,046.2	18.1	24.8	61.30	571.8	-8.4	437.8	407.9	29.80	14.688	
6,200.0	6,152.3	6,210.5	6,148.0	18.1	25.1	60.82	575.1	-10.0	438.0	407.8	30.13	14.537	
6,300.0	6,252.3	6,314.1	6,251.6	18.2	25.5	60.41	577.8	-11.7	437.8	407.4	30.42	14.395	
6,400.0	6,352.3	6,420.3	6,357.8	18.3	25.7	60.18	578.6	-13.9	436.4	405.9	30.55	14.286	
6,500.0	6,452.3	6,520.3	6,457.7	18.3	25.8	60.07	578.2	-16.1	434.3	403.6	30.63	14.176	
6,600.0	6,552.3	6,620.4	6,557.7	18.4	25.8	59.97	577.7	-18.5	432.0	401.3	30.72	14.062	
6,700.0	6,652.3	6,721.1	6,658.4	18.4	25.9	59.82	577.6	-21.1	429.7	398.9	30.83	13.939	
6,800.0	6,752.3	6,821.7	6,759.0	18.5	26.0	59.71	577.1	-23.4	427.5	396.5	30.93	13.821	
6,900.0	6,852.3	6,921.1	6,858.3	18.5	26.1	59.62	576.5	-25.7	425.2	394.1	31.04	13.699	
7,000.0	6,952.3	7,020.4	6,957.6	18.6	26.2	59.55	575.8	-28.0	422.8	391.7	31.15	13.574	
7,100.0	7,052.3	7,119.7	7,056.9	18.7	26.2	59.48	575.1	-30.3	420.5	389.2	31.26	13.449	
7,200.0	7,152.3	7,220.4	7,157.6	18.7	26.3	59.43	574.1	-32.6	417.9	386.6	31.38	13.320	
7,300.0	7,252.3	7,324.3	7,261.4	18.8	26.4	59.44	572.8	-34.8	415.5	384.0	31.55	13.171	
7,400.0	7,352.3	7,431.1	7,368.2	18.8	26.5	59.64	569.3	-37.7	411.5	379.8	31.70	12.982	
7,500.0	7,452.3	7,592.1	7,527.2	18.9	26.7	61.68	548.5	-45.6	401.8	370.4	31.41	12.790	
7,600.0	7,552.3	7,706.9	7,633.0	19.0	26.8	67.19	504.8	-51.8	379.1	347.8	31.30	12.109	
7,700.0	7,652.3	7,807.9	7,717.1	19.0	26.9	75.54	449.3	-52.3	357.9	326.1	31.74	11.275	
7,800.0	7,752.3	7,885.7	7,775.3	19.1	27.0	83.96	397.7	-51.4	343.9	311.2	32.71	10.514	
7,851.7	7,804.0	7,920.6	7,799.9	19.1	27.0	88.08	373.1	-50.8	341.8	308.6	33.23	10.285	
7,900.0	7,852.3	7,948.2	7,818.2	19.2	27.0	91.54	352.4	-49.9	343.9	310.3	33.60	10.236 SF	
8,000.0	7,952.3	8,004.0	7,851.6	19.2	27.1	98.88	307.7	-47.7	362.0	328.0	34.09	10.621	
8,100.0	8,052.3	8,049.0	7,875.6	19.3	27.1	104.84	269.8	-45.8	398.0	364.1	33.87	11.750	
8,200.0	8,152.3	8,090.1	7,895.9	19.3	27.1	110.14	234.0	-44.5	448.3	414.9	33.36	13.438	
8,300.0	8,252.3	8,119.2	7,909.2	19.4	27.1	113.76	208.2	-43.8	509.9	477.3	32.56	15.657	
8,400.0	8,352.3	8,144.0	7,919.6	19.5	27.1	116.73	185.6	-43.0	580.3	548.4	31.89	18.198	
8,500.0	8,452.3	8,162.4	7,926.6	19.5	27.2	118.86	168.6	-42.3	657.2	625.8	31.33	20.974	
8,570.2	8,522.5	8,175.5	7,931.4	19.6	27.2	120.32	156.5	-41.7	713.9	682.8	31.08	22.970	
8,575.0	8,527.3	8,176.3	7,931.7	19.6	27.2	-59.38	155.7	-41.6	717.9	687.0	30.91	23.222	
8,600.0	8,552.3	8,192.0	7,937.1	19.6	27.2	-54.28	141.0	-40.8	738.5	707.5	31.02	23.809	
8,625.0	8,577.2	8,192.0	7,937.1	19.6	27.2	-51.05	141.0	-40.8	758.6	727.7	30.85	24.588	
8,650.0	8,601.9	8,192.0	7,937.1	19.6	27.2	-48.05	141.0	-40.8	778.5	747.8	30.69	25.363	
8,675.0	8,626.5	8,192.0	7,937.1	19.6	27.2	-45.26	141.0	-40.8	798.2	767.6	30.55	26.129	
8,700.0	8,650.7	8,192.0	7,937.1	19.6	27.2	-42.70	141.0	-40.8	817.6	787.2	30.41	26.884	
8,725.0	8,674.6	8,209.3	7,942.6	19.6	27.2	-39.52	124.6	-39.8	836.2	805.8	30.49	27.423	
8,750.0	8,698.1	8,215.7	7,944.6	19.6	27.2	-37.22	118.6	-39.3	854.6	824.2	30.44	28.077	
8,775.0	8,721.1	8,222.4	7,946.5	19.6	27.2	-35.15	112.2	-38.9	872.6	842.2	30.39	28.711	

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 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 520H - OWB - AWP												Offset Site Error:	0.0 usft
Survey Program: 26-r.5 SDI_KPR_ADK, 7433-r.5 MWD+IFR1+MS												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Rule Assigned:	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		No-Go Distance (usft)	Warning
8,800.0	8,743.5	8,239.0	7,951.1	19.6	27.2	-33.02	96.3	-37.7	890.1	859.6	30.45	29.230	
8,825.0	8,765.4	8,239.0	7,951.1	19.6	27.2	-31.58	96.3	-37.7	906.8	876.4	30.34	29.887	
8,850.0	8,786.6	8,239.0	7,951.1	19.7	27.2	-30.26	96.3	-37.7	923.0	892.8	30.25	30.516	
8,875.0	8,807.0	8,253.0	7,954.6	19.7	27.2	-28.81	82.8	-36.6	938.6	908.3	30.28	30.996	
8,900.0	8,826.7	8,261.8	7,956.7	19.7	27.2	-27.61	74.3	-35.9	953.5	923.3	30.28	31.494	
8,925.0	8,845.6	8,270.8	7,958.7	19.7	27.2	-26.54	65.5	-35.2	967.8	937.5	30.28	31.962	
8,950.0	8,863.5	8,286.0	7,961.9	19.7	27.2	-25.54	50.7	-33.9	981.3	951.0	30.33	32.359	
8,975.0	8,880.5	8,286.0	7,961.9	19.7	27.2	-24.78	50.7	-33.9	994.0	963.8	30.29	32.820	

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 703H - OWB - PWP0													Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 8585-r.5 MWD+IFR1													Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:											
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	89.05	0.5	30.0	30.0					
100.0	100.0	100.0	100.0	0.8	0.8	89.05	0.5	30.0	30.0	28.0	2.02	14.835		
200.0	200.0	200.0	200.0	1.4	1.4	89.05	0.5	30.0	30.0	26.7	3.34	8.976		
300.0	300.0	300.0	300.0	1.9	1.9	89.05	0.5	30.0	30.0	25.8	4.23	7.099		
400.0	400.0	400.0	400.0	2.2	2.2	89.05	0.5	30.0	30.0	25.1	4.94	6.070		
500.0	500.0	500.0	500.0	2.6	2.6	89.05	0.5	30.0	30.0	24.4	5.56	5.392		
600.0	600.0	600.0	600.0	2.8	2.8	89.05	0.5	30.0	30.0	23.9	6.12	4.901		
700.0	700.0	700.0	700.0	3.1	3.1	89.05	0.5	30.0	30.0	23.4	6.63	4.524		
800.0	800.0	800.0	800.0	3.3	3.3	89.05	0.5	30.0	30.0	22.9	7.11	4.221		
900.0	900.0	900.0	900.0	3.6	3.6	89.05	0.5	30.0	30.0	22.4	7.55	3.971		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	89.05	0.5	30.0	30.0	22.0	7.98	3.761		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	89.05	0.5	30.0	30.0	21.6	8.38	3.579		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	89.05	0.5	30.0	30.0	21.2	8.77	3.421		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	89.05	0.5	30.0	30.0	20.9	9.14	3.281		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	89.05	0.5	30.0	30.0	20.5	9.50	3.157		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	89.05	0.5	30.0	30.0	20.2	9.85	3.045 CC, ES		
1,600.0	1,600.0	1,599.2	1,599.1	5.0	5.0	136.47	1.6	31.3	32.6	22.3	10.29	3.164		
1,700.0	1,699.8	1,697.9	1,697.8	5.3	5.3	136.64	5.1	35.1	40.3	29.5	10.72	3.755		
1,800.0	1,799.5	1,795.9	1,795.4	5.6	5.6	136.79	10.7	41.4	53.1	41.9	11.16	4.754		
1,900.0	1,898.7	1,892.7	1,891.5	5.9	5.9	136.85	18.5	50.0	70.9	59.3	11.60	6.107		
2,000.0	1,997.5	1,988.1	1,985.7	6.2	6.2	136.82	28.2	60.8	93.6	81.5	12.06	7.763		
2,071.3	2,067.5	2,055.0	2,051.5	6.4	6.4	136.75	36.3	69.9	112.8	100.4	12.34	9.136		
2,100.0	2,095.7	2,081.7	2,077.7	6.4	6.5	136.78	39.8	73.8	121.1	108.6	12.44	9.729		
2,200.0	2,193.7	2,175.3	2,169.1	6.7	6.7	136.42	53.3	88.7	151.2	138.4	12.82	11.795		
2,300.0	2,291.7	2,270.5	2,262.0	7.0	7.0	136.08	67.2	104.2	181.8	168.5	13.27	13.693		
2,400.0	2,389.7	2,365.7	2,354.9	7.4	7.3	135.83	81.2	119.8	212.3	198.5	13.76	15.428		
2,500.0	2,487.7	2,460.9	2,447.8	7.7	7.6	135.64	95.1	135.3	242.8	228.5	14.27	17.021		
2,600.0	2,585.7	2,556.2	2,540.7	8.0	8.0	135.50	109.1	150.8	273.3	258.6	14.79	18.482		
2,700.0	2,683.8	2,651.4	2,633.6	8.4	8.3	135.38	123.1	166.4	303.9	288.5	15.33	19.822		
2,800.0	2,781.8	2,746.6	2,726.5	8.8	8.7	135.29	137.0	181.9	334.4	318.5	15.88	21.052		
2,900.0	2,879.8	2,841.8	2,819.4	9.2	9.0	135.21	151.0	197.4	364.9	348.5	16.45	22.182		
3,000.0	2,977.8	2,937.0	2,912.3	9.6	9.4	135.14	165.0	213.0	395.5	378.5	17.03	23.220		
3,100.0	3,075.8	3,032.3	3,005.2	10.0	9.8	135.09	178.9	228.5	426.0	408.4	17.62	24.176		
3,200.0	3,173.9	3,127.5	3,098.1	10.4	10.2	135.04	192.9	244.0	456.6	438.3	18.22	25.056		
3,300.0	3,271.9	3,222.7	3,191.0	10.8	10.6	134.99	206.8	259.6	487.1	468.3	18.83	25.870		
3,400.0	3,369.9	3,317.9	3,283.9	11.2	11.0	134.95	220.8	275.1	517.6	498.2	19.44	26.622		
3,500.0	3,467.9	3,413.2	3,376.8	11.6	11.4	134.92	234.8	290.7	548.2	528.1	20.07	27.318		
3,600.0	3,565.9	3,508.4	3,469.7	12.0	11.8	134.89	248.7	306.2	578.7	558.0	20.69	27.964		
3,700.0	3,663.9	3,603.6	3,562.7	12.4	12.2	134.86	262.7	321.7	609.2	587.9	21.33	28.564		
3,800.0	3,762.0	3,698.8	3,655.6	12.9	12.6	134.84	276.7	337.3	639.8	617.8	21.97	29.122		
3,900.0	3,860.0	3,794.6	3,749.0	13.3	13.0	134.82	290.7	352.9	670.3	647.7	22.61	29.647		
3,905.1	3,865.0	3,799.9	3,754.2	13.3	13.0	134.82	291.5	353.7	671.9	649.2	22.64	29.671		
4,000.0	3,958.1	3,899.7	3,851.8	13.7	13.5	135.01	305.4	369.3	699.6	676.2	23.35	29.962		
4,100.0	4,056.6	4,006.1	3,956.2	14.2	13.9	135.18	319.0	384.4	726.3	702.3	24.05	30.196		
4,200.0	4,155.4	4,113.7	4,062.2	14.6	14.4	135.33	331.4	398.2	750.5	725.8	24.75	30.325		
4,300.0	4,254.4	4,222.3	4,169.5	15.0	14.8	135.46	342.6	410.7	772.1	746.6	25.43	30.361		
4,400.0	4,353.7	4,331.8	4,278.0	15.4	15.3	135.57	352.6	421.7	791.0	764.9	26.09	30.314		
4,500.0	4,453.2	4,442.2	4,387.6	15.8	15.7	135.66	361.2	431.3	807.3	780.6	26.74	30.193		
4,600.0	4,552.8	4,553.3	4,498.1	16.2	16.2	135.74	368.4	439.3	820.9	793.5	27.36	30.007		
4,700.0	4,652.5	4,664.9	4,609.4	16.5	16.6	135.80	374.2	445.8	831.8	803.8	27.95	29.764		
4,800.0	4,752.4	4,777.0	4,721.3	16.9	17.0	135.84	378.6	450.7	839.9	811.4	28.50	29.474		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 703H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 8585-r.5 MWD+IFR1											Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)		
4,900.0	4,852.3	4,889.4	4,833.7	17.2	17.3	135.87	381.5	453.9	845.4	816.4	29.00	29.147
5,000.0	4,952.3	5,002.0	4,946.3	17.4	17.6	135.88	382.9	455.5	848.1	818.6	29.44	28.810
5,047.7	5,000.0	5,055.8	5,000.0	17.5	17.7	88.55	383.1	455.7	848.4	818.8	29.53	28.728
5,065.1	5,017.4	5,073.2	5,017.4	17.5	17.7	88.55	383.1	455.7	848.4	818.8	29.54	28.716
5,100.0	5,052.3	5,108.1	5,052.3	17.5	17.7	88.55	383.1	455.7	848.4	818.8	29.57	28.690
5,200.0	5,152.3	5,208.1	5,152.3	17.6	17.8	88.55	383.1	455.7	848.4	818.7	29.70	28.566
5,300.0	5,252.3	5,308.1	5,252.3	17.6	17.8	88.55	383.1	455.7	848.4	818.5	29.83	28.442
5,400.0	5,352.3	5,408.1	5,352.3	17.7	17.9	88.55	383.1	455.7	848.4	818.4	29.96	28.319
5,500.0	5,452.3	5,508.1	5,452.3	17.7	17.9	88.55	383.1	455.7	848.4	818.3	30.09	28.197
5,600.0	5,552.3	5,608.1	5,552.3	17.8	18.0	88.55	383.1	455.7	848.4	818.1	30.22	28.076
5,700.0	5,652.3	5,708.1	5,652.3	17.8	18.0	88.55	383.1	455.7	848.4	818.0	30.35	27.955
5,800.0	5,752.3	5,808.1	5,752.3	17.9	18.1	88.55	383.1	455.7	848.4	817.9	30.48	27.836
5,900.0	5,852.3	5,908.1	5,852.3	18.0	18.2	88.55	383.1	455.7	848.4	817.8	30.61	27.716
6,000.0	5,952.3	6,008.1	5,952.3	18.0	18.2	88.55	383.1	455.7	848.4	817.6	30.74	27.598
6,100.0	6,052.3	6,108.1	6,052.3	18.1	18.3	88.55	383.1	455.7	848.4	817.5	30.87	27.481
6,200.0	6,152.3	6,208.1	6,152.3	18.1	18.3	88.55	383.1	455.7	848.4	817.4	31.00	27.364
6,300.0	6,252.3	6,308.1	6,252.3	18.2	18.4	88.55	383.1	455.7	848.4	817.2	31.14	27.248
6,400.0	6,352.3	6,408.1	6,352.3	18.3	18.4	88.55	383.1	455.7	848.4	817.1	31.27	27.132
6,500.0	6,452.3	6,508.1	6,452.3	18.3	18.5	88.55	383.1	455.7	848.4	817.0	31.40	27.018
6,600.0	6,552.3	6,608.1	6,552.3	18.4	18.6	88.55	383.1	455.7	848.4	816.8	31.53	26.904
6,700.0	6,652.3	6,708.1	6,652.3	18.4	18.6	88.55	383.1	455.7	848.4	816.7	31.67	26.791
6,800.0	6,752.3	6,808.1	6,752.3	18.5	18.7	88.55	383.1	455.7	848.4	816.6	31.80	26.678
6,900.0	6,852.3	6,908.1	6,852.3	18.5	18.7	88.55	383.1	455.7	848.4	816.4	31.93	26.567
7,000.0	6,952.3	7,008.1	6,952.3	18.6	18.8	88.55	383.1	455.7	848.4	816.3	32.07	26.456
7,100.0	7,052.3	7,108.1	7,052.3	18.7	18.9	88.55	383.1	455.7	848.4	816.2	32.20	26.346
7,200.0	7,152.3	7,208.1	7,152.3	18.7	18.9	88.55	383.1	455.7	848.4	816.0	32.34	26.236
7,300.0	7,252.3	7,308.1	7,252.3	18.8	19.0	88.55	383.1	455.7	848.4	815.9	32.47	26.127
7,400.0	7,352.3	7,408.1	7,352.3	18.8	19.0	88.55	383.1	455.7	848.4	815.8	32.61	26.019
7,500.0	7,452.3	7,508.1	7,452.3	18.9	19.1	88.55	383.1	455.7	848.4	815.6	32.74	25.912
7,600.0	7,552.3	7,608.1	7,552.3	19.0	19.2	88.55	383.1	455.7	848.4	815.5	32.88	25.805
7,700.0	7,652.3	7,708.1	7,652.3	19.0	19.2	88.55	383.1	455.7	848.4	815.4	33.01	25.699
7,800.0	7,752.3	7,808.1	7,752.3	19.1	19.3	88.55	383.1	455.7	848.4	815.2	33.15	25.594
7,900.0	7,852.3	7,908.1	7,852.3	19.2	19.3	88.55	383.1	455.7	848.4	815.1	33.28	25.489
8,000.0	7,952.3	8,008.1	7,952.3	19.2	19.4	88.55	383.1	455.7	848.4	814.9	33.42	25.385
8,100.0	8,052.3	8,108.1	8,052.3	19.3	19.5	88.55	383.1	455.7	848.4	814.8	33.56	25.282
8,200.0	8,152.3	8,208.1	8,152.3	19.3	19.5	88.55	383.1	455.7	848.4	814.7	33.69	25.179
8,300.0	8,252.3	8,308.1	8,252.3	19.4	19.6	88.55	383.1	455.7	848.4	814.5	33.83	25.077
8,400.0	8,352.3	8,408.1	8,352.3	19.5	19.6	88.55	383.1	455.7	848.4	814.4	33.97	24.976
8,500.0	8,452.3	8,508.1	8,452.3	19.5	19.7	88.55	383.1	455.7	848.4	814.3	34.10	24.876
8,570.2	8,522.5	8,578.3	8,522.5	19.6	19.7	88.55	383.1	455.7	848.4	814.2	34.18	24.820
8,575.0	8,527.3	8,583.4	8,527.6	19.6	19.7	-91.96	383.1	455.7	848.4	814.2	34.18	24.819
8,600.0	8,552.3	8,610.0	8,554.2	19.6	19.8	-91.96	382.0	455.7	848.4	814.2	34.19	24.812
8,625.0	8,577.2	8,636.6	8,580.6	19.6	19.8	-91.95	379.5	455.7	848.4	814.2	34.19	24.811
8,650.0	8,601.9	8,663.1	8,606.9	19.6	19.8	-91.93	375.6	455.6	848.4	814.2	34.19	24.812
8,675.0	8,626.5	8,689.7	8,632.9	19.6	19.8	-91.91	370.2	455.6	848.3	814.2	34.19	24.813
8,700.0	8,650.7	8,716.2	8,658.5	19.6	19.8	-91.88	363.3	455.5	848.3	814.2	34.19	24.815
8,725.0	8,674.6	8,742.7	8,683.7	19.6	19.8	-91.85	355.1	455.5	848.3	814.1	34.18	24.818
8,750.0	8,698.1	8,769.2	8,708.4	19.6	19.8	-91.81	345.4	455.4	848.3	814.1	34.18	24.822
8,775.0	8,721.1	8,795.6	8,732.4	19.6	19.8	-91.77	334.5	455.3	848.3	814.1	34.17	24.825
8,800.0	8,743.5	8,822.0	8,755.8	19.6	19.8	-91.72	322.2	455.2	848.3	814.1	34.17	24.829
8,825.0	8,765.4	8,848.4	8,778.4	19.6	19.8	-91.67	308.7	455.1	848.3	814.1	34.16	24.832

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 8585-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,850.0	8,786.6	8,874.7	8,800.2	19.7	19.8	-91.61	294.0	455.0	848.3	814.1	34.16	24.834	
8,875.0	8,807.0	8,900.9	8,821.1	19.7	19.9	-91.55	278.2	454.8	848.2	814.1	34.15	24.835	
8,900.0	8,826.7	8,927.1	8,841.1	19.7	19.9	-91.49	261.2	454.7	848.2	814.1	34.16	24.834	
8,925.0	8,845.6	8,953.2	8,860.1	19.7	19.9	-91.41	243.3	454.5	848.2	814.1	34.16	24.832	
8,950.0	8,863.5	8,979.3	8,878.0	19.7	19.9	-91.34	224.4	454.4	848.2	814.0	34.17	24.827	
8,975.0	8,880.5	9,005.3	8,894.8	19.7	19.9	-91.26	204.5	454.2	848.2	814.0	34.18	24.819	
9,000.0	8,896.6	9,031.2	8,910.5	19.8	20.0	-91.18	183.9	454.1	848.2	814.0	34.19	24.807	
9,025.0	8,911.6	9,057.1	8,925.0	19.8	20.0	-91.10	162.5	453.9	848.2	814.0	34.21	24.793	
9,050.0	8,925.5	9,082.9	8,938.3	19.8	20.0	-91.01	140.4	453.7	848.2	813.9	34.24	24.774	
9,075.0	8,938.4	9,108.6	8,950.3	19.8	20.0	-90.92	117.6	453.5	848.1	813.9	34.27	24.751	
9,100.0	8,950.1	9,134.3	8,961.1	19.8	20.0	-90.82	94.4	453.3	848.1	813.8	34.30	24.724	
9,125.0	8,960.6	9,159.8	8,970.6	19.9	20.1	-90.73	70.6	453.1	848.1	813.8	34.35	24.693	
9,150.0	8,970.0	9,185.3	8,978.7	19.9	20.1	-90.63	46.5	452.9	848.1	813.7	34.40	24.656	
9,156.5	8,972.2	9,191.9	8,980.6	19.9	20.1	-90.61	40.2	452.9	848.1	813.7	34.41	24.646	
9,175.0	8,978.1	9,210.7	8,985.6	19.9	20.1	-90.53	22.0	452.7	848.1	813.7	34.45	24.616	
9,200.0	8,984.9	9,236.0	8,991.1	19.9	20.2	-90.43	-2.7	452.5	848.1	813.6	34.52	24.570	
9,225.0	8,990.5	9,261.3	8,995.3	20.0	20.2	-90.33	-27.6	452.3	848.1	813.6	34.59	24.520	
9,250.0	8,994.8	9,286.5	8,998.1	20.0	20.2	-90.23	-52.6	452.1	848.1	813.5	34.67	24.466	
9,275.0	8,997.8	9,311.6	8,999.7	20.0	20.2	-90.13	-77.7	451.9	848.2	813.4	34.75	24.408	
9,300.0	8,999.5	9,336.6	9,000.0	20.1	20.3	-90.03	-102.7	451.7	848.2	813.3	34.84	24.344	
9,320.2	9,000.0	9,356.7	9,000.0	20.1	20.3	-90.00	-122.8	451.5	848.2	813.3	34.92	24.289	
9,400.0	9,000.0	9,436.6	9,000.0	20.2	20.4	-90.00	-202.6	450.9	848.2	813.0	35.28	24.041	
9,500.0	9,000.0	9,536.6	9,000.0	20.4	20.6	-90.00	-302.6	450.1	848.3	812.5	35.83	23.674	
9,600.0	9,000.0	9,636.6	9,000.0	20.5	20.8	-90.00	-402.6	449.2	848.4	811.9	36.47	23.259	
9,700.0	9,000.0	9,736.6	9,000.0	20.8	21.0	-90.00	-502.6	448.4	848.4	811.2	37.20	22.805	
9,800.0	9,000.0	9,836.6	9,000.0	21.0	21.3	-90.00	-602.6	447.6	848.5	810.5	38.01	22.320	
9,900.0	9,000.0	9,936.6	9,000.0	21.3	21.6	-90.00	-702.6	446.8	848.6	809.6	38.90	21.812	
10,000.0	9,000.0	10,036.6	9,000.0	21.7	21.9	-90.00	-802.6	445.9	848.6	808.8	39.86	21.288	
10,100.0	9,000.0	10,136.6	9,000.0	22.0	22.3	-90.00	-902.6	445.1	848.7	807.8	40.89	20.754	
10,200.0	9,000.0	10,236.6	9,000.0	22.4	22.7	-90.00	-1,002.6	444.3	848.7	806.8	41.98	20.217	
10,300.0	9,000.0	10,336.6	9,000.0	22.9	23.1	-90.00	-1,102.6	443.5	848.8	805.7	43.13	19.681	
10,400.0	9,000.0	10,436.6	9,000.0	23.4	23.6	-90.00	-1,202.6	442.7	848.9	804.5	44.33	19.150	
10,500.0	9,000.0	10,536.6	9,000.0	23.9	24.1	-90.00	-1,302.6	441.8	848.9	803.4	45.57	18.627	
10,600.0	9,000.0	10,636.6	9,000.0	24.4	24.7	-90.00	-1,402.6	441.0	849.0	802.1	46.87	18.115	
10,700.0	9,000.0	10,736.6	9,000.0	25.0	25.3	-90.00	-1,502.6	440.2	849.1	800.9	48.20	17.615	
10,800.0	9,000.0	10,836.6	9,000.0	25.6	25.9	-90.00	-1,602.6	439.4	849.1	799.5	49.57	17.130	
10,900.0	9,000.0	10,936.6	9,000.0	26.3	26.5	-90.00	-1,702.6	438.5	849.2	798.2	50.98	16.659	
11,000.0	9,000.0	11,036.6	9,000.0	26.9	27.2	-90.00	-1,802.6	437.7	849.2	796.8	52.41	16.203	
11,100.0	9,000.0	11,136.6	9,000.0	27.6	27.8	-90.00	-1,902.6	436.9	849.3	795.4	53.88	15.763	
11,200.0	9,000.0	11,236.6	9,000.0	28.3	28.5	-90.00	-2,002.6	436.1	849.4	794.0	55.37	15.340	
11,300.0	9,000.0	11,336.6	9,000.0	29.0	29.3	-90.00	-2,102.6	435.2	849.4	792.5	56.89	14.932	
11,400.0	9,000.0	11,436.6	9,000.0	29.8	30.0	-90.00	-2,202.6	434.4	849.5	791.1	58.43	14.539	
11,500.0	9,000.0	11,536.6	9,000.0	30.5	30.7	-90.00	-2,302.6	433.6	849.6	789.6	59.99	14.162	
11,600.0	9,000.0	11,636.6	9,000.0	31.3	31.5	-90.00	-2,402.6	432.8	849.6	788.1	61.57	13.799	
11,700.0	9,000.0	11,736.6	9,000.0	32.1	32.3	-90.00	-2,502.6	432.0	849.7	786.5	63.17	13.451	
11,800.0	9,000.0	11,836.6	9,000.0	32.8	33.1	-90.00	-2,602.6	431.1	849.8	785.0	64.78	13.117	
11,900.0	9,000.0	11,936.6	9,000.0	33.6	33.9	-90.00	-2,702.6	430.3	849.8	783.4	66.41	12.796	
12,000.0	9,000.0	12,036.6	9,000.0	34.5	34.7	-90.00	-2,802.6	429.5	849.9	781.8	68.06	12.487	
12,100.0	9,000.0	12,136.6	9,000.0	35.3	35.5	-90.00	-2,902.6	428.7	849.9	780.2	69.72	12.191	
12,200.0	9,000.0	12,236.6	9,000.0	36.1	36.3	-90.00	-3,002.5	427.8	850.0	778.6	71.39	11.907	
12,300.0	9,000.0	12,336.6	9,000.0	36.9	37.2	-90.00	-3,102.5	427.0	850.1	777.0	73.07	11.634	

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 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 8585-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Reference	Offset	Highside	Offset Wellbore Centre	Distance	Between	Between	No-Go	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)	Distance (usft)	Factor	
12,400.0	9,000.0	12,436.6	9,000.0	37.8	38.0	-90.00	-3,202.5	426.2	850.1	775.4	74.76	11.371	
12,500.0	9,000.0	12,536.6	9,000.0	38.6	38.9	-90.00	-3,302.5	425.4	850.2	773.7	76.46	11.119	
12,600.0	9,000.0	12,636.6	9,000.0	39.5	39.7	-90.00	-3,402.5	424.5	850.3	772.1	78.17	10.876	
12,700.0	9,000.0	12,736.6	9,000.0	40.3	40.6	-90.00	-3,502.5	423.7	850.3	770.4	79.89	10.643	
12,800.0	9,000.0	12,836.6	9,000.0	41.2	41.4	-90.00	-3,602.5	422.9	850.4	768.8	81.62	10.418	
12,900.0	9,000.0	12,936.6	9,000.0	42.1	42.3	-90.00	-3,702.5	422.1	850.4	767.1	83.36	10.202	
13,000.0	9,000.0	13,036.6	9,000.0	42.9	43.2	-90.00	-3,802.5	421.3	850.5	765.4	85.10	9.994	
13,100.0	9,000.0	13,136.6	9,000.0	43.8	44.0	-90.00	-3,902.5	420.4	850.6	763.7	86.85	9.793	
13,200.0	9,000.0	13,236.6	9,000.0	44.7	44.9	-90.00	-4,002.5	419.6	850.6	762.0	88.61	9.600	
13,300.0	9,000.0	13,336.6	9,000.0	45.6	45.8	-90.00	-4,102.5	418.8	850.7	760.3	90.37	9.413	
13,400.0	9,000.0	13,436.6	9,000.0	46.5	46.7	-90.00	-4,202.5	418.0	850.8	758.6	92.14	9.234	
13,500.0	9,000.0	13,536.6	9,000.0	47.4	47.6	-90.00	-4,302.5	417.1	850.8	756.9	93.91	9.060	
13,600.0	9,000.0	13,636.6	9,000.0	48.3	48.5	-90.00	-4,402.5	416.3	850.9	755.2	95.69	8.892	
13,700.0	9,000.0	13,736.6	9,000.0	49.2	49.4	-90.00	-4,502.5	415.5	850.9	753.5	97.47	8.730	
13,800.0	9,000.0	13,836.6	9,000.0	50.1	50.3	-90.00	-4,602.5	414.7	851.0	751.8	99.26	8.574	
13,900.0	9,000.0	13,936.6	9,000.0	51.0	51.2	-90.00	-4,702.5	413.9	851.1	750.0	101.05	8.422	
14,000.0	9,000.0	14,036.6	9,000.0	51.9	52.1	-90.00	-4,802.5	413.0	851.1	748.3	102.85	8.276	
14,100.0	9,000.0	14,136.6	9,000.0	52.8	53.0	-90.00	-4,902.5	412.2	851.2	746.6	104.65	8.134	
14,200.0	9,000.0	14,236.6	9,000.0	53.7	53.9	-90.00	-5,002.5	411.4	851.3	744.8	106.45	7.997	
14,300.0	9,000.0	14,336.6	9,000.0	54.6	54.8	-90.00	-5,102.5	410.6	851.3	743.1	108.25	7.864	
14,400.0	9,000.0	14,436.6	9,000.0	55.5	55.7	-90.00	-5,202.5	409.7	851.4	741.3	110.06	7.735	
14,500.0	9,000.0	14,536.6	9,000.0	56.4	56.7	-90.00	-5,302.5	408.9	851.5	739.6	111.88	7.611	
14,600.0	9,000.0	14,636.6	9,000.0	57.4	57.6	-90.00	-5,402.5	408.1	851.5	737.8	113.69	7.490	
14,700.0	9,000.0	14,736.6	9,000.0	58.3	58.5	-90.00	-5,502.5	407.3	851.6	736.1	115.51	7.372	
14,800.0	9,000.0	14,836.6	9,000.0	59.2	59.4	-90.00	-5,602.5	406.4	851.6	734.3	117.33	7.258	
14,900.0	9,000.0	14,936.6	9,000.0	60.1	60.3	-90.00	-5,702.5	405.6	851.7	732.6	119.16	7.148	
15,000.0	9,000.0	15,036.6	9,000.0	61.0	61.3	-90.00	-5,802.5	404.8	851.8	730.8	120.98	7.040	
15,100.0	9,000.0	15,136.6	9,000.0	62.0	62.2	-90.00	-5,902.4	404.0	851.8	729.0	122.81	6.936	
15,200.0	9,000.0	15,236.6	9,000.0	62.9	63.1	-90.00	-6,002.4	403.2	851.9	727.3	124.64	6.835	
15,300.0	9,000.0	15,336.6	9,000.0	63.8	64.0	-90.00	-6,102.4	402.3	852.0	725.5	126.47	6.736	
15,400.0	9,000.0	15,436.6	9,000.0	64.7	65.0	-90.00	-6,202.4	401.5	852.0	723.7	128.31	6.640	
15,500.0	9,000.0	15,536.6	9,000.0	65.7	65.9	-90.00	-6,302.4	400.7	852.1	721.9	130.14	6.547	
15,600.0	9,000.0	15,636.6	9,000.0	66.6	66.8	-90.00	-6,402.4	399.9	852.1	720.2	131.98	6.456	
15,700.0	9,000.0	15,736.6	9,000.0	67.5	67.7	-90.00	-6,502.4	399.0	852.2	718.4	133.82	6.368	
15,800.0	9,000.0	15,836.6	9,000.0	68.5	68.7	-90.00	-6,602.4	398.2	852.3	716.6	135.67	6.282	
15,900.0	9,000.0	15,936.6	9,000.0	69.4	69.6	-90.00	-6,702.4	397.4	852.3	714.8	137.51	6.198	
16,000.0	9,000.0	16,036.6	9,000.0	70.3	70.5	-90.00	-6,802.4	396.6	852.4	713.0	139.36	6.117	
16,100.0	9,000.0	16,136.6	9,000.0	71.3	71.5	-90.00	-6,902.4	395.8	852.5	711.3	141.20	6.037	
16,200.0	9,000.0	16,236.6	9,000.0	72.2	72.4	-90.00	-7,002.4	394.9	852.5	709.5	143.05	5.960	
16,300.0	9,000.0	16,336.6	9,000.0	73.1	73.4	-90.00	-7,102.4	394.1	852.6	707.7	144.90	5.884	
16,400.0	9,000.0	16,436.6	9,000.0	74.1	74.3	-90.00	-7,202.4	393.3	852.7	705.9	146.75	5.810	
16,500.0	9,000.0	16,536.6	9,000.0	75.0	75.2	-90.00	-7,302.4	392.5	852.7	704.1	148.60	5.738	
16,600.0	9,000.0	16,636.6	9,000.0	75.9	76.2	-90.00	-7,402.4	391.6	852.8	702.3	150.46	5.668	
16,700.0	9,000.0	16,736.6	9,000.0	76.9	77.1	-90.00	-7,502.4	390.8	852.8	700.5	152.31	5.599	
16,800.0	9,000.0	16,836.6	9,000.0	77.8	78.0	-90.00	-7,602.4	390.0	852.9	698.7	154.17	5.532	
16,900.0	9,000.0	16,936.6	9,000.0	78.8	79.0	-90.00	-7,702.4	389.2	853.0	696.9	156.03	5.467	
17,000.0	9,000.0	17,036.6	9,000.0	79.7	79.9	-90.00	-7,802.4	388.3	853.0	695.1	157.88	5.403	
17,100.0	9,000.0	17,136.6	9,000.0	80.6	80.9	-90.00	-7,902.4	387.5	853.1	693.4	159.74	5.340	
17,200.0	9,000.0	17,236.6	9,000.0	81.6	81.8	-90.00	-8,002.4	386.7	853.2	691.6	161.60	5.279	
17,300.0	9,000.0	17,336.6	9,000.0	82.5	82.8	-90.00	-8,102.4	385.9	853.2	689.8	163.46	5.220	
17,400.0	9,000.0	17,436.6	9,000.0	83.5	83.7	-90.00	-8,202.4	385.1	853.3	688.0	165.33	5.161	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 8585-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,500.0	9,000.0	17,536.6	9,000.0	84.4	84.6	-90.00	-8,302.4	384.2	853.3	686.2	167.19	5.104	
17,600.0	9,000.0	17,636.6	9,000.0	85.4	85.6	-90.00	-8,402.4	383.4	853.4	684.4	169.05	5.048	
17,700.0	9,000.0	17,736.6	9,000.0	86.3	86.5	-90.00	-8,502.4	382.6	853.5	682.6	170.92	4.993	
17,800.0	9,000.0	17,836.6	9,000.0	87.3	87.5	-90.00	-8,602.4	381.8	853.5	680.8	172.78	4.940	
17,900.0	9,000.0	17,936.6	9,000.0	88.2	88.4	-90.00	-8,702.4	380.9	853.6	678.9	174.65	4.887	
18,000.0	9,000.0	18,036.6	9,000.0	89.1	89.4	-90.00	-8,802.4	380.1	853.7	677.1	176.52	4.836	
18,100.0	9,000.0	18,136.6	9,000.0	90.1	90.3	-90.00	-8,902.3	379.3	853.7	675.3	178.39	4.786	
18,200.0	9,000.0	18,236.6	9,000.0	91.0	91.3	-90.00	-9,002.3	378.5	853.8	673.5	180.25	4.737	
18,300.0	9,000.0	18,336.6	9,000.0	92.0	92.2	-90.00	-9,102.3	377.6	853.9	671.7	182.12	4.688	
18,400.0	9,000.0	18,436.6	9,000.0	92.9	93.1	-90.00	-9,202.3	376.8	853.9	669.9	183.99	4.641	
18,500.0	9,000.0	18,536.6	9,000.0	93.9	94.1	-90.00	-9,302.3	376.0	854.0	668.1	185.87	4.595	
18,600.0	9,000.0	18,636.6	9,000.0	94.8	95.0	-90.00	-9,402.3	375.2	854.0	666.3	187.74	4.549	
18,700.0	9,000.0	18,736.6	9,000.0	95.8	96.0	-90.00	-9,502.3	374.4	854.1	664.5	189.61	4.505	
18,800.0	9,000.0	18,836.6	9,000.0	96.7	96.9	-90.00	-9,602.3	373.5	854.2	662.7	191.48	4.461	
18,900.0	9,000.0	18,936.6	9,000.0	97.7	97.9	-90.00	-9,702.3	372.7	854.2	660.9	193.35	4.418	
19,000.0	9,000.0	19,036.6	9,000.0	98.6	98.8	-90.00	-9,802.3	371.9	854.3	659.1	195.23	4.376	
19,100.0	9,000.0	19,136.6	9,000.0	99.6	99.8	-90.00	-9,902.3	371.1	854.4	657.3	197.10	4.335	
19,200.0	9,000.0	19,236.6	9,000.0	100.5	100.7	-90.00	-10,002.3	370.2	854.4	655.4	198.98	4.294	
19,300.0	9,000.0	19,336.6	9,000.0	101.5	101.7	-90.00	-10,102.3	369.4	854.5	653.6	200.85	4.254	
19,400.0	9,000.0	19,436.6	9,000.0	102.4	102.6	-90.00	-10,202.3	368.6	854.5	651.8	202.73	4.215	
19,500.0	9,000.0	19,536.6	9,000.0	103.4	103.6	-90.00	-10,302.3	367.8	854.6	650.0	204.60	4.177	
19,600.0	9,000.0	19,636.6	9,000.0	104.3	104.5	-90.00	-10,402.3	367.0	854.7	648.2	206.48	4.139	
19,700.0	9,000.0	19,736.6	9,000.0	105.3	105.5	-90.00	-10,502.3	366.1	854.7	646.4	208.36	4.102	
19,800.0	9,000.0	19,836.6	9,000.0	106.2	106.4	-90.00	-10,602.3	365.3	854.8	644.6	210.24	4.066	
19,900.0	9,000.0	19,936.6	9,000.0	107.2	107.4	-90.00	-10,702.3	364.5	854.9	642.7	212.12	4.030	
20,000.0	9,000.0	20,036.6	9,000.0	108.1	108.3	-90.00	-10,802.3	363.7	854.9	640.9	213.99	3.995	
20,100.0	9,000.0	20,136.6	9,000.0	109.1	109.3	-90.00	-10,902.3	362.8	855.0	639.1	215.87	3.961	
20,200.0	9,000.0	20,236.6	9,000.0	110.0	110.3	-90.00	-11,002.3	362.0	855.0	637.3	217.75	3.927	
20,300.0	9,000.0	20,336.6	9,000.0	111.0	111.2	-90.00	-11,102.3	361.2	855.1	635.5	219.63	3.893	
20,400.0	9,000.0	20,436.6	9,000.0	111.9	112.2	-90.00	-11,202.3	360.4	855.2	633.7	221.51	3.861	
20,500.0	9,000.0	20,536.6	9,000.0	112.9	113.1	-90.00	-11,302.3	359.5	855.2	631.8	223.39	3.828	
20,600.0	9,000.0	20,636.6	9,000.0	113.8	114.1	-90.00	-11,402.3	358.7	855.3	630.0	225.27	3.797	
20,700.0	9,000.0	20,736.6	9,000.0	114.8	115.0	-90.00	-11,502.3	357.9	855.4	628.2	227.16	3.766	
20,800.0	9,000.0	20,836.6	9,000.0	115.7	116.0	-90.00	-11,602.3	357.1	855.4	626.4	229.04	3.735	
20,900.0	9,000.0	20,936.6	9,000.0	116.7	116.9	-90.00	-11,702.3	356.3	855.5	624.6	230.92	3.705	
21,000.0	9,000.0	21,036.6	9,000.0	117.7	117.9	-90.00	-11,802.2	355.4	855.6	622.8	232.80	3.675	
21,100.0	9,000.0	21,136.6	9,000.0	118.6	118.8	-90.00	-11,902.2	354.6	855.6	620.9	234.68	3.646	
21,200.0	9,000.0	21,236.6	9,000.0	119.6	119.8	-90.00	-12,002.2	353.8	855.7	619.1	236.57	3.617	
21,300.0	9,000.0	21,336.6	9,000.0	120.5	120.7	-90.00	-12,102.2	353.0	855.7	617.3	238.45	3.589	
21,400.0	9,000.0	21,436.6	9,000.0	121.5	121.7	-90.00	-12,202.2	352.1	855.8	615.5	240.33	3.561	
21,500.0	9,000.0	21,536.6	9,000.0	122.4	122.7	-90.00	-12,302.2	351.3	855.9	613.7	242.22	3.533	
21,600.0	9,000.0	21,636.6	9,000.0	123.4	123.6	-90.00	-12,402.2	350.5	855.9	611.8	244.10	3.506	
21,700.0	9,000.0	21,736.6	9,000.0	124.3	124.6	-90.00	-12,502.2	349.7	856.0	610.0	245.99	3.480	
21,800.0	9,000.0	21,836.6	9,000.0	125.3	125.5	-90.00	-12,602.2	348.8	856.1	608.2	247.87	3.454	
21,900.0	9,000.0	21,936.6	9,000.0	126.2	126.5	-90.00	-12,702.2	348.0	856.1	606.4	249.76	3.428	
22,000.0	9,000.0	22,036.6	9,000.0	127.2	127.4	-90.00	-12,802.2	347.2	856.2	604.5	251.64	3.402	
22,100.0	9,000.0	22,136.6	9,000.0	128.2	128.4	-90.00	-12,902.2	346.4	856.2	602.7	253.53	3.377	
22,200.0	9,000.0	22,236.6	9,000.0	129.1	129.3	-90.00	-13,002.2	345.6	856.3	600.9	255.41	3.353	
22,300.0	9,000.0	22,336.6	9,000.0	130.1	130.3	-90.00	-13,102.2	344.7	856.4	599.1	257.30	3.328	
22,400.0	9,000.0	22,436.6	9,000.0	131.0	131.2	-90.00	-13,202.2	343.9	856.4	597.3	259.19	3.304	
22,500.0	9,000.0	22,536.6	9,000.0	132.0	132.2	-90.00	-13,302.2	343.1	856.5	595.4	261.07	3.281	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 703H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 8585-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
22,600.0	9,000.0	22,636.6	9,000.0	132.9	133.2	-90.00	-13,402.2	342.3	856.6	593.6	262.96	3.257	
22,700.0	9,000.0	22,736.6	9,000.0	133.9	134.1	-90.00	-13,502.2	341.4	856.6	591.8	264.85	3.234	
22,800.0	9,000.0	22,836.6	9,000.0	134.8	135.1	-90.00	-13,602.2	340.6	856.7	590.0	266.73	3.212	
22,900.0	9,000.0	22,936.6	9,000.0	135.8	136.0	-90.00	-13,702.2	339.8	856.8	588.1	268.62	3.189	
23,000.0	9,000.0	23,036.6	9,000.0	136.8	137.0	-90.00	-13,802.2	339.0	856.8	586.3	270.51	3.167	
23,100.0	9,000.0	23,136.6	9,000.0	137.7	137.9	-90.00	-13,902.2	338.2	856.9	584.5	272.40	3.146	
23,200.0	9,000.0	23,236.6	9,000.0	138.7	138.9	-90.00	-14,002.2	337.3	856.9	582.7	274.28	3.124	
23,300.0	9,000.0	23,336.6	9,000.0	139.6	139.9	-90.00	-14,102.2	336.5	857.0	580.8	276.17	3.103	
23,400.0	9,000.0	23,436.6	9,000.0	140.6	140.8	-90.00	-14,202.2	335.7	857.1	579.0	278.06	3.082	
23,500.0	9,000.0	23,536.6	9,000.0	141.5	141.8	-90.00	-14,302.2	334.9	857.1	577.2	279.95	3.062	
23,600.0	9,000.0	23,636.6	9,000.0	142.5	142.7	-90.00	-14,402.2	334.0	857.2	575.4	281.84	3.041	
23,700.0	9,000.0	23,736.6	9,000.0	143.5	143.7	-90.00	-14,502.2	333.2	857.3	573.5	283.73	3.021	
23,800.0	9,000.0	23,836.6	9,000.0	144.4	144.6	-90.00	-14,602.2	332.4	857.3	571.7	285.62	3.002	
23,900.0	9,000.0	23,936.6	9,000.0	145.4	145.6	-90.00	-14,702.1	331.6	857.4	569.9	287.51	2.982	Normal Operations
24,000.0	9,000.0	24,036.6	9,000.0	146.3	146.6	-90.00	-14,802.1	330.7	857.4	568.1	289.40	2.963	Normal Operations
24,100.0	9,000.0	24,136.6	9,000.0	147.3	147.5	-90.00	-14,902.1	329.9	857.5	566.2	291.29	2.944	Normal Operations
24,200.0	9,000.0	24,236.6	9,000.0	148.2	148.5	-90.00	-15,002.1	329.1	857.6	564.4	293.17	2.925	Normal Operations
24,300.0	9,000.0	24,336.6	9,000.0	149.2	149.4	-90.00	-15,102.1	328.3	857.6	562.6	295.06	2.907	Normal Operations
24,400.0	9,000.0	24,436.6	9,000.0	150.2	150.4	-90.00	-15,202.1	327.5	857.7	560.7	296.95	2.888	Normal Operations
24,424.2	9,000.0	24,460.8	9,000.0	150.4	150.6	-90.00	-15,226.4	327.3	857.7	560.3	297.41	2.884	Normal Operations, SF

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+SAG+FDIR, 8589-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 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)	No-Go Distance (usft)	Separation Factor	Warning
6,200.0	6,152.3	6,467.5	6,307.7	18.1	15.2	-91.65	333.1	-1,380.5	996.9	966.9	30.03	33.202	
6,300.0	6,252.3	6,552.8	6,392.3	18.2	15.4	-91.42	337.3	-1,370.1	984.7	954.4	30.30	32.494	
6,400.0	6,352.3	6,638.5	6,477.3	18.3	15.6	-91.21	341.1	-1,360.9	973.8	943.2	30.57	31.855	
6,500.0	6,452.3	6,724.4	6,562.8	18.3	15.7	-91.03	344.3	-1,352.8	964.3	933.5	30.82	31.284	
6,600.0	6,552.3	6,810.5	6,648.6	18.4	15.9	-90.87	347.2	-1,345.9	956.2	925.1	31.07	30.779	
6,700.0	6,652.3	6,900.0	6,737.9	18.4	16.1	-90.73	349.6	-1,340.0	949.5	918.2	31.30	30.334	
6,800.0	6,752.3	6,983.4	6,821.1	18.5	16.2	-90.62	351.3	-1,335.6	944.3	912.8	31.52	29.959	
6,900.0	6,852.3	7,070.1	6,907.7	18.5	16.3	-90.54	352.7	-1,332.3	940.4	908.7	31.73	29.643	
7,000.0	6,952.3	7,156.8	6,994.4	18.6	16.5	-90.49	353.5	-1,330.2	938.0	906.1	31.92	29.390	
7,100.0	7,052.3	7,243.6	7,081.2	18.7	16.5	-90.47	353.9	-1,329.3	937.0	904.9	32.07	29.218	
7,143.5	7,095.8	7,284.0	7,121.6	18.7	16.6	-90.47	353.9	-1,329.3	936.9	904.8	32.11	29.175	
7,200.0	7,152.3	7,340.5	7,178.1	18.7	16.6	-90.47	353.9	-1,329.3	936.9	904.7	32.18	29.118	
7,300.0	7,252.3	7,440.5	7,278.1	18.8	16.6	-90.47	353.9	-1,329.3	936.9	904.6	32.30	29.009	
7,400.0	7,352.3	7,540.5	7,378.1	18.8	16.7	-90.47	353.9	-1,329.3	936.9	904.5	32.42	28.900	
7,500.0	7,452.3	7,640.5	7,478.1	18.9	16.8	-90.47	353.9	-1,329.3	936.9	904.4	32.54	28.792	
7,600.0	7,552.3	7,740.5	7,578.1	19.0	16.8	-90.47	353.9	-1,329.3	936.9	904.3	32.66	28.684	
7,700.0	7,652.3	7,840.5	7,678.1	19.0	16.9	-90.47	353.9	-1,329.3	936.9	904.1	32.79	28.577	
7,800.0	7,752.3	7,940.5	7,778.1	19.1	16.9	-90.47	353.9	-1,329.3	936.9	904.0	32.91	28.471	
7,900.0	7,852.3	8,040.5	7,878.1	19.2	17.0	-90.47	353.9	-1,329.3	936.9	903.9	33.03	28.365	
8,000.0	7,952.3	8,140.5	7,978.1	19.2	17.0	-90.47	353.9	-1,329.3	936.9	903.8	33.15	28.259	
8,100.0	8,052.3	8,240.5	8,078.1	19.3	17.1	-90.47	353.9	-1,329.3	936.9	903.6	33.28	28.154	
8,200.0	8,152.3	8,340.5	8,178.1	19.3	17.1	-90.47	353.9	-1,329.3	936.9	903.5	33.40	28.050	
8,300.0	8,252.3	8,440.5	8,278.1	19.4	17.2	-90.47	353.9	-1,329.3	936.9	903.4	33.53	27.946	
8,400.0	8,352.3	8,540.5	8,378.1	19.5	17.3	-90.47	353.9	-1,329.3	936.9	903.3	33.65	27.845	
8,410.0	8,362.3	8,550.5	8,388.1	19.5	17.3	-90.47	353.9	-1,329.3	936.9	903.3	33.66	27.835	
8,500.0	8,452.3	8,639.0	8,476.6	19.5	17.3	-90.60	351.8	-1,329.3	937.0	903.2	33.74	27.769	
8,570.2	8,522.5	8,705.8	8,542.6	19.6	17.4	-91.19	342.1	-1,329.4	937.2	903.5	33.74	27.781	
8,575.0	8,527.3	8,710.3	8,547.0	19.6	17.4	88.24	341.2	-1,329.4	937.2	903.5	33.73	27.784	
8,600.0	8,552.3	8,733.5	8,569.6	19.6	17.4	87.95	335.9	-1,329.4	937.4	903.7	33.72	27.802	
8,625.0	8,577.2	8,756.6	8,591.9	19.6	17.4	87.67	329.7	-1,329.5	937.6	903.9	33.70	27.824	
8,650.0	8,601.9	8,779.6	8,613.8	19.6	17.4	87.41	322.6	-1,329.6	937.8	904.1	33.68	27.846	
8,675.0	8,626.5	8,802.5	8,635.3	19.6	17.4	87.17	314.7	-1,329.6	938.0	904.3	33.66	27.867	
8,700.0	8,650.7	8,825.3	8,656.3	19.6	17.5	86.94	306.0	-1,329.7	938.1	904.5	33.64	27.887	
8,725.0	8,674.6	8,850.0	8,678.7	19.6	17.5	86.72	295.7	-1,329.8	938.3	904.7	33.62	27.909	
8,750.0	8,698.1	8,870.7	8,697.1	19.6	17.5	86.55	286.3	-1,329.9	938.5	904.9	33.61	27.924	
8,775.0	8,721.1	8,893.2	8,716.8	19.6	17.5	86.38	275.2	-1,330.0	938.7	905.1	33.60	27.940	
8,800.0	8,743.5	8,915.7	8,736.0	19.6	17.6	86.23	263.5	-1,330.1	938.8	905.2	33.59	27.953	
8,825.0	8,765.4	8,938.2	8,754.7	19.6	17.6	86.10	251.0	-1,330.2	939.0	905.4	33.58	27.963	
8,850.0	8,786.6	8,960.6	8,772.8	19.7	17.6	86.00	237.8	-1,330.3	939.1	905.5	33.57	27.971	
8,875.0	8,807.0	8,983.0	8,790.4	19.7	17.6	85.91	224.0	-1,330.4	939.2	905.6	33.57	27.975	
8,900.0	8,826.7	9,005.3	8,807.3	19.7	17.7	85.85	209.5	-1,330.5	939.2	905.7	33.57	27.976	
8,925.0	8,845.6	9,027.6	8,823.8	19.7	17.7	85.80	194.3	-1,330.7	939.3	905.7	33.58	27.973	
8,950.0	8,863.5	9,050.0	8,839.6	19.7	17.7	85.78	178.5	-1,330.8	939.3	905.7	33.59	27.966	
8,975.0	8,880.5	9,072.2	8,854.7	19.7	17.7	85.77	162.2	-1,331.0	939.3	905.7	33.60	27.953	
9,000.0	8,896.6	9,094.6	8,869.2	19.8	17.8	85.79	145.3	-1,331.1	939.3	905.7	33.62	27.937	
9,025.0	8,911.6	9,116.9	8,883.1	19.8	17.8	85.83	127.8	-1,331.3	939.3	905.6	33.65	27.915	
9,050.0	8,925.5	9,139.2	8,896.3	19.8	17.8	85.90	109.8	-1,331.4	939.2	905.5	33.68	27.889	
9,075.0	8,938.4	9,161.6	8,908.7	19.8	17.9	85.98	91.2	-1,331.6	939.1	905.4	33.71	27.857	
9,100.0	8,950.1	9,184.0	8,920.5	19.8	17.9	86.08	72.1	-1,331.8	939.0	905.2	33.75	27.820	
9,125.0	8,960.6	9,206.4	8,931.5	19.9	17.9	86.20	52.6	-1,331.9	938.8	905.0	33.80	27.779	
9,150.0	8,970.0	9,228.9	8,941.8	19.9	18.0	86.35	32.6	-1,332.1	938.7	904.8	33.85	27.732	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+SAG+FDIR, 8589-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Distance	Rule Assigned:									
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
9,175.0	8,978.1	9,250.0	8,950.7	19.9	18.0	86.50	13.5	-1,332.3	938.5	904.6	33.91	27.679	
9,200.0	8,984.9	9,274.1	8,960.0	19.9	18.0	86.69	-8.7	-1,332.5	938.3	904.4	33.97	27.625	
9,225.0	8,990.5	9,296.8	8,967.9	20.0	18.1	86.90	-30.0	-1,332.7	938.2	904.1	34.03	27.566	
9,250.0	8,994.8	9,319.5	8,975.0	20.0	18.1	87.12	-51.6	-1,332.8	938.0	903.9	34.11	27.501	
9,275.0	8,997.8	9,342.4	8,981.2	20.0	18.1	87.36	-73.6	-1,333.0	937.8	903.6	34.18	27.434	
9,300.0	8,999.5	9,365.4	8,986.6	20.1	18.2	87.61	-96.0	-1,333.2	937.6	903.3	34.27	27.362	
9,320.2	9,000.0	9,384.0	8,990.3	20.1	18.2	87.83	-114.2	-1,333.4	937.4	903.1	34.34	27.303	
9,400.0	9,000.0	9,459.2	8,999.2	20.2	18.3	88.38	-188.8	-1,334.0	937.1	902.5	34.64	27.054	
9,453.8	9,000.0	9,511.6	9,000.0	20.3	18.4	88.42	-241.2	-1,334.5	937.1	902.2	34.88	26.868	
9,500.0	9,000.0	9,557.8	9,000.0	20.4	18.5	88.42	-287.4	-1,334.9	937.1	902.0	35.10	26.701	
9,600.0	9,000.0	9,657.8	9,000.0	20.5	18.7	88.42	-387.4	-1,335.8	937.1	901.4	35.64	26.295	
9,700.0	9,000.0	9,757.8	9,000.0	20.8	19.0	88.42	-487.4	-1,336.7	937.1	900.8	36.26	25.842	
9,800.0	9,000.0	9,857.8	9,000.0	21.0	19.3	88.42	-587.4	-1,337.5	937.1	900.1	36.96	25.351	
9,900.0	9,000.0	9,957.8	9,000.0	21.3	19.6	88.42	-687.4	-1,338.4	937.1	899.3	37.74	24.829	
10,000.0	9,000.0	10,057.8	9,000.0	21.7	19.9	88.42	-787.4	-1,339.3	937.1	898.5	38.59	24.284	
10,100.0	9,000.0	10,157.8	9,000.0	22.0	20.2	88.42	-887.4	-1,340.2	937.0	897.5	39.50	23.724	
10,200.0	9,000.0	10,257.8	9,000.0	22.4	20.6	88.42	-987.4	-1,341.1	937.0	896.6	40.47	23.155	
10,300.0	9,000.0	10,357.8	9,000.0	22.9	21.0	88.42	-1,087.4	-1,341.9	937.0	895.5	41.50	22.581	
10,400.0	9,000.0	10,457.8	9,000.0	23.4	21.5	88.42	-1,187.4	-1,342.8	937.0	894.4	42.58	22.008	
10,500.0	9,000.0	10,557.8	9,000.0	23.9	22.0	88.42	-1,287.4	-1,343.7	937.0	893.3	43.70	21.440	
10,600.0	9,000.0	10,657.8	9,000.0	24.4	22.4	88.42	-1,387.4	-1,344.6	937.0	892.1	44.88	20.880	
10,700.0	9,000.0	10,757.8	9,000.0	25.0	23.0	88.42	-1,487.4	-1,345.5	937.0	890.9	46.09	20.330	
10,800.0	9,000.0	10,857.8	9,000.0	25.6	23.5	88.42	-1,587.4	-1,346.3	937.0	889.6	47.34	19.793	
10,900.0	9,000.0	10,957.8	9,000.0	26.3	24.0	88.42	-1,687.4	-1,347.2	937.0	888.4	48.63	19.269	
11,000.0	9,000.0	11,057.8	9,000.0	26.9	24.6	88.42	-1,787.4	-1,348.1	937.0	887.0	49.95	18.760	
11,100.0	9,000.0	11,157.8	9,000.0	27.6	25.2	88.42	-1,887.4	-1,349.0	937.0	885.7	51.29	18.267	
11,200.0	9,000.0	11,257.8	9,000.0	28.3	25.8	88.42	-1,987.4	-1,349.8	937.0	884.3	52.67	17.790	
11,300.0	9,000.0	11,357.8	9,000.0	29.0	26.4	88.42	-2,087.4	-1,350.7	937.0	882.9	54.07	17.329	
11,400.0	9,000.0	11,457.8	9,000.0	29.8	27.1	88.42	-2,187.4	-1,351.6	936.9	881.5	55.49	16.884	
11,500.0	9,000.0	11,557.8	9,000.0	30.5	27.7	88.42	-2,287.4	-1,352.5	936.9	880.0	56.94	16.455	
11,600.0	9,000.0	11,657.8	9,000.0	31.3	28.4	88.42	-2,387.4	-1,353.4	936.9	878.5	58.40	16.042	
11,700.0	9,000.0	11,757.8	9,000.0	32.1	29.0	88.42	-2,487.3	-1,354.2	936.9	877.0	59.89	15.644	
11,800.0	9,000.0	11,857.8	9,000.0	32.8	29.7	88.42	-2,587.3	-1,355.1	936.9	875.5	61.39	15.262	
11,900.0	9,000.0	11,957.8	9,000.0	33.6	30.4	88.42	-2,687.3	-1,356.0	936.9	874.0	62.91	14.894	
12,000.0	9,000.0	12,057.8	9,000.0	34.5	31.1	88.42	-2,787.3	-1,356.9	936.9	872.5	64.44	14.539	
12,100.0	9,000.0	12,157.8	9,000.0	35.3	31.8	88.42	-2,887.3	-1,357.7	936.9	870.9	65.98	14.199	
12,200.0	9,000.0	12,257.8	9,000.0	36.1	32.5	88.42	-2,987.3	-1,358.6	936.9	869.3	67.54	13.871	
12,300.0	9,000.0	12,357.8	9,000.0	36.9	33.2	88.42	-3,087.3	-1,359.5	936.9	867.8	69.11	13.556	
12,400.0	9,000.0	12,457.8	9,000.0	37.8	34.0	88.42	-3,187.3	-1,360.4	936.9	866.2	70.69	13.253	
12,500.0	9,000.0	12,557.8	9,000.0	38.6	34.7	88.42	-3,287.3	-1,361.3	936.9	864.6	72.29	12.960	
12,600.0	9,000.0	12,657.8	9,000.0	39.5	35.4	88.42	-3,387.3	-1,362.1	936.9	863.0	73.89	12.680	
12,700.0	9,000.0	12,757.8	9,000.0	40.3	36.2	88.42	-3,487.3	-1,363.0	936.8	861.4	75.49	12.409	
12,800.0	9,000.0	12,857.8	9,000.0	41.2	36.9	88.42	-3,587.3	-1,363.9	936.8	859.7	77.11	12.149	
12,900.0	9,000.0	12,957.8	9,000.0	42.1	37.7	88.42	-3,687.3	-1,364.8	936.8	858.1	78.74	11.898	
13,000.0	9,000.0	13,057.8	9,000.0	42.9	38.4	88.42	-3,787.3	-1,365.7	936.8	856.4	80.38	11.656	
13,100.0	9,000.0	13,157.8	9,000.0	43.8	39.2	88.42	-3,887.3	-1,366.5	936.8	854.8	82.02	11.422	
13,200.0	9,000.0	13,257.8	9,000.0	44.7	40.0	88.42	-3,987.3	-1,367.4	936.8	853.1	83.67	11.197	
13,300.0	9,000.0	13,357.8	9,000.0	45.6	40.7	88.42	-4,087.3	-1,368.3	936.8	851.5	85.32	10.980	
13,400.0	9,000.0	13,457.8	9,000.0	46.5	41.5	88.42	-4,187.3	-1,369.2	936.8	849.8	86.98	10.770	
13,500.0	9,000.0	13,557.8	9,000.0	47.4	42.3	88.42	-4,287.3	-1,370.0	936.8	848.1	88.65	10.568	
13,600.0	9,000.0	13,657.8	9,000.0	48.3	43.1	88.42	-4,387.3	-1,370.9	936.8	846.5	90.32	10.372	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+SAG+FDIR, 8589-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Highside	Offset Wellbore Centre	Distance	Between	Between	No-Go	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)	Distance (usft)	Factor	
13,700.0	9,000.0	13,757.8	9,000.0	49.2	43.9	88.42	-4,487.3	-1,371.8	936.8	844.8	91.99	10.183	
13,800.0	9,000.0	13,857.8	9,000.0	50.1	44.7	88.42	-4,587.3	-1,372.7	936.8	843.1	93.67	10.000	
13,900.0	9,000.0	13,957.8	9,000.0	51.0	45.4	88.42	-4,687.3	-1,373.6	936.8	841.4	95.36	9.824	
14,000.0	9,000.0	14,057.8	9,000.0	51.9	46.2	88.42	-4,787.3	-1,374.4	936.7	839.7	97.05	9.652	
14,100.0	9,000.0	14,157.8	9,000.0	52.8	47.0	88.42	-4,887.3	-1,375.3	936.7	838.0	98.74	9.487	
14,200.0	9,000.0	14,257.8	9,000.0	53.7	47.8	88.42	-4,987.3	-1,376.2	936.7	836.3	100.44	9.327	
14,300.0	9,000.0	14,357.8	9,000.0	54.6	48.6	88.42	-5,087.2	-1,377.1	936.7	834.6	102.14	9.171	
14,400.0	9,000.0	14,457.8	9,000.0	55.5	49.4	88.42	-5,187.2	-1,377.9	936.7	832.9	103.84	9.021	
14,500.0	9,000.0	14,557.8	9,000.0	56.4	50.2	88.42	-5,287.2	-1,378.8	936.7	831.2	105.55	8.875	
14,600.0	9,000.0	14,657.8	9,000.0	57.4	51.0	88.42	-5,387.2	-1,379.7	936.7	829.4	107.26	8.733	
14,700.0	9,000.0	14,757.8	9,000.0	58.3	51.8	88.42	-5,487.2	-1,380.6	936.7	827.7	108.97	8.596	
14,800.0	9,000.0	14,857.8	9,000.0	59.2	52.7	88.42	-5,587.2	-1,381.5	936.7	826.0	110.69	8.462	
14,900.0	9,000.0	14,957.8	9,000.0	60.1	53.5	88.42	-5,687.2	-1,382.3	936.7	824.3	112.41	8.333	
15,000.0	9,000.0	15,057.8	9,000.0	61.0	54.3	88.42	-5,787.2	-1,383.2	936.7	822.5	114.13	8.207	
15,100.0	9,000.0	15,157.8	9,000.0	62.0	55.1	88.42	-5,887.2	-1,384.1	936.7	820.8	115.85	8.085	
15,200.0	9,000.0	15,257.8	9,000.0	62.9	55.9	88.42	-5,987.2	-1,385.0	936.7	819.1	117.58	7.966	
15,300.0	9,000.0	15,357.8	9,000.0	63.8	56.7	88.42	-6,087.2	-1,385.9	936.6	817.3	119.31	7.851	
15,400.0	9,000.0	15,457.8	9,000.0	64.7	57.5	88.42	-6,187.2	-1,386.7	936.6	815.6	121.04	7.738	
15,500.0	9,000.0	15,557.8	9,000.0	65.7	58.4	88.42	-6,287.2	-1,387.6	936.6	813.9	122.77	7.629	
15,600.0	9,000.0	15,657.8	9,000.0	66.6	59.2	88.42	-6,387.2	-1,388.5	936.6	812.1	124.51	7.523	
15,700.0	9,000.0	15,757.8	9,000.0	67.5	60.0	88.42	-6,487.2	-1,389.4	936.6	810.4	126.24	7.419	
15,800.0	9,000.0	15,857.8	9,000.0	68.5	60.8	88.42	-6,587.2	-1,390.2	936.6	808.6	127.98	7.318	
15,900.0	9,000.0	15,957.8	9,000.0	69.4	61.6	88.42	-6,687.2	-1,391.1	936.6	806.9	129.72	7.220	
16,000.0	9,000.0	16,057.8	9,000.0	70.3	62.5	88.42	-6,787.2	-1,392.0	936.6	805.1	131.46	7.124	
16,100.0	9,000.0	16,157.8	9,000.0	71.3	63.3	88.42	-6,887.2	-1,392.9	936.6	803.4	133.20	7.031	
16,200.0	9,000.0	16,257.8	9,000.0	72.2	64.1	88.42	-6,987.2	-1,393.8	936.6	801.6	134.95	6.940	
16,300.0	9,000.0	16,357.8	9,000.0	73.1	64.9	88.42	-7,087.2	-1,394.6	936.6	799.9	136.70	6.852	
16,400.0	9,000.0	16,457.8	9,000.0	74.1	65.8	88.42	-7,187.2	-1,395.5	936.6	798.1	138.44	6.765	
16,500.0	9,000.0	16,557.8	9,000.0	75.0	66.6	88.42	-7,287.2	-1,396.4	936.6	796.4	140.19	6.681	
16,542.2	9,000.0	16,600.0	9,000.0	75.4	67.0	88.42	-7,329.3	-1,396.8	936.6	795.6	140.93	6.645 CC	
16,600.0	9,000.0	16,657.8	9,000.0	75.9	67.4	88.42	-7,387.1	-1,397.6	936.9	794.9	141.94	6.600	
16,700.0	9,000.0	16,757.8	9,000.0	76.9	68.3	88.42	-7,487.2	-1,398.5	936.9	793.2	143.69	6.520	
16,800.0	9,000.0	16,857.8	9,000.0	77.8	69.1	88.42	-7,587.1	-1,399.3	936.8	791.4	145.44	6.441	
16,900.0	9,000.0	16,957.8	9,000.0	78.8	69.9	88.42	-7,687.1	-1,400.2	936.8	789.6	147.20	6.364	
17,000.0	9,000.0	17,057.8	9,000.0	79.7	70.8	88.42	-7,787.1	-1,401.1	936.8	787.9	148.95	6.289	
17,100.0	9,000.0	17,157.8	9,000.0	80.6	71.6	88.42	-7,887.1	-1,402.0	936.8	786.1	150.71	6.216	
17,200.0	9,000.0	17,257.8	9,000.0	81.6	72.4	88.42	-7,987.1	-1,402.9	936.8	784.4	152.47	6.144	
17,300.0	9,000.0	17,357.8	9,000.0	82.5	73.3	88.42	-8,087.1	-1,403.7	936.8	782.6	154.23	6.074	
17,400.0	9,000.0	17,457.8	9,000.0	83.5	74.1	88.42	-8,187.1	-1,404.6	936.8	780.8	155.98	6.006	
17,500.0	9,000.0	17,557.8	9,000.0	84.4	74.9	88.42	-8,287.1	-1,405.5	936.8	779.1	157.74	5.939	
17,600.0	9,000.0	17,657.8	9,000.0	85.4	75.8	88.42	-8,387.1	-1,406.4	936.8	777.3	159.51	5.873	
17,700.0	9,000.0	17,757.8	9,000.0	86.3	76.6	88.42	-8,487.1	-1,407.2	936.8	775.5	161.27	5.809	
17,800.0	9,000.0	17,857.8	9,000.0	87.3	77.4	88.42	-8,587.1	-1,408.1	936.8	773.7	163.03	5.746	
17,900.0	9,000.0	17,957.8	9,000.0	88.2	78.3	88.42	-8,687.1	-1,409.0	936.8	772.0	164.79	5.684	
18,000.0	9,000.0	18,057.8	9,000.0	89.1	79.1	88.42	-8,787.1	-1,409.9	936.8	770.2	166.56	5.624	
18,100.0	9,000.0	18,157.8	9,000.0	90.1	79.9	88.42	-8,887.1	-1,410.8	936.7	768.4	168.32	5.565	
18,200.0	9,000.0	18,257.8	9,000.0	91.0	80.8	88.42	-8,987.1	-1,411.6	936.7	766.7	170.09	5.507	
18,300.0	9,000.0	18,357.8	9,000.0	92.0	81.6	88.42	-9,087.1	-1,412.5	936.7	764.9	171.86	5.451	
18,400.0	9,000.0	18,457.8	9,000.0	92.9	82.5	88.42	-9,187.1	-1,413.4	936.7	763.1	173.62	5.395	
18,500.0	9,000.0	18,557.8	9,000.0	93.9	83.3	88.42	-9,287.1	-1,414.3	936.7	761.3	175.39	5.341	
18,600.0	9,000.0	18,657.8	9,000.0	94.8	84.1	88.42	-9,387.1	-1,415.2	936.7	759.5	177.16	5.287	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+SAG+FDIR, 8589-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 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)	No-Go Distance (usft)	Separation Factor	Warning
18,700.0	9,000.0	18,757.8	9,000.0	95.8	85.0	88.42	-9,487.1	-1,416.0	936.7	757.8	178.93	5.235	
18,800.0	9,000.0	18,857.8	9,000.0	96.7	85.8	88.42	-9,587.1	-1,416.9	936.7	756.0	180.70	5.184	
18,900.0	9,000.0	18,957.8	9,000.0	97.7	86.7	88.42	-9,687.1	-1,417.8	936.7	754.2	182.47	5.133	
19,000.0	9,000.0	19,057.8	9,000.0	98.6	87.5	88.42	-9,787.1	-1,418.7	936.7	752.4	184.24	5.084	
19,100.0	9,000.0	19,157.8	9,000.0	99.6	88.4	88.42	-9,887.1	-1,419.5	936.7	750.7	186.02	5.035	
19,142.2	9,000.0	19,200.0	9,000.0	100.0	88.7	88.42	-9,929.2	-1,419.9	936.7	749.9	186.76	5.015	
19,200.0	9,000.0	19,256.0	9,000.0	100.5	89.2	88.42	-9,985.2	-1,420.5	936.8	749.0	187.77	4.989	
19,300.0	9,000.0	19,357.8	9,000.0	101.5	90.0	88.42	-10,087.0	-1,421.5	936.8	747.3	189.56	4.942	
19,400.0	9,000.0	19,457.8	9,000.0	102.4	90.9	88.42	-10,187.0	-1,422.4	936.8	745.5	191.33	4.896	
19,500.0	9,000.0	19,557.8	9,000.0	103.4	91.7	88.42	-10,287.0	-1,423.2	936.8	743.7	193.11	4.851	
19,600.0	9,000.0	19,657.8	9,000.0	104.3	92.6	88.42	-10,387.0	-1,424.1	936.8	741.9	194.88	4.807	
19,700.0	9,000.0	19,757.8	9,000.0	105.3	93.4	88.42	-10,487.0	-1,425.0	936.8	740.2	196.66	4.764	
19,800.0	9,000.0	19,857.8	9,000.0	106.2	94.3	88.42	-10,587.0	-1,425.9	936.8	738.4	198.43	4.721	
19,900.0	9,000.0	19,957.8	9,000.0	107.2	95.1	88.42	-10,687.0	-1,426.8	936.8	736.6	200.21	4.679	
20,000.0	9,000.0	20,057.8	9,000.0	108.1	95.9	88.42	-10,787.0	-1,427.6	936.8	734.8	201.98	4.638	
20,100.0	9,000.0	20,157.8	9,000.0	109.1	96.8	88.42	-10,887.0	-1,428.5	936.8	733.0	203.76	4.597	
20,200.0	9,000.0	20,257.8	9,000.0	110.0	97.6	88.42	-10,987.0	-1,429.4	936.8	731.2	205.54	4.558	
20,300.0	9,000.0	20,357.8	9,000.0	111.0	98.5	88.42	-11,087.0	-1,430.3	936.8	729.4	207.32	4.519	
20,400.0	9,000.0	20,457.8	9,000.0	111.9	99.3	88.42	-11,187.0	-1,431.1	936.8	727.7	209.09	4.480	
20,500.0	9,000.0	20,557.8	9,000.0	112.9	100.2	88.42	-11,287.0	-1,432.0	936.7	725.9	210.87	4.442	
20,600.0	9,000.0	20,657.8	9,000.0	113.8	101.0	88.42	-11,387.0	-1,432.9	936.7	724.1	212.65	4.405	
20,700.0	9,000.0	20,757.8	9,000.0	114.8	101.9	88.42	-11,487.0	-1,433.8	936.7	722.3	214.43	4.368	
20,800.0	9,000.0	20,857.8	9,000.0	115.7	102.7	88.42	-11,587.0	-1,434.7	936.7	720.5	216.21	4.332	
20,900.0	9,000.0	20,957.8	9,000.0	116.7	103.6	88.42	-11,687.0	-1,435.5	936.7	718.7	217.99	4.297	
21,000.0	9,000.0	21,057.8	9,000.0	117.7	104.4	88.42	-11,787.0	-1,436.4	936.7	716.9	219.77	4.262	
21,100.0	9,000.0	21,157.8	9,000.0	118.6	105.3	88.42	-11,887.0	-1,437.3	936.7	715.2	221.55	4.228	
21,200.0	9,000.0	21,257.8	9,000.0	119.6	106.1	88.42	-11,987.0	-1,438.2	936.7	713.4	223.33	4.194	
21,300.0	9,000.0	21,357.8	9,000.0	120.5	106.9	88.42	-12,087.0	-1,439.0	936.7	711.6	225.11	4.161	
21,400.0	9,000.0	21,457.8	9,000.0	121.5	107.8	88.42	-12,187.0	-1,439.9	936.7	709.8	226.90	4.128	
21,500.0	9,000.0	21,557.8	9,000.0	122.4	108.6	88.42	-12,287.0	-1,440.8	936.7	708.0	228.68	4.096	
21,600.0	9,000.0	21,657.8	9,000.0	123.4	109.5	88.42	-12,387.0	-1,441.7	936.7	706.2	230.46	4.064	
21,700.0	9,000.0	21,757.8	9,000.0	124.3	110.3	88.42	-12,487.0	-1,442.6	936.7	704.4	232.24	4.033	
21,800.0	9,000.0	21,857.8	9,000.0	125.3	111.2	88.42	-12,587.0	-1,443.4	936.6	702.6	234.03	4.002	
21,842.2	9,000.0	21,900.0	9,000.0	125.7	111.5	88.42	-12,629.1	-1,443.8	936.6	701.9	234.78	3.989	
21,900.0	9,000.0	21,955.8	9,000.0	126.2	112.0	88.42	-12,684.9	-1,444.4	936.8	701.0	235.79	3.973	
22,000.0	9,000.0	22,057.8	9,000.0	127.2	112.9	88.42	-12,786.9	-1,445.4	936.8	699.2	237.59	3.943	
22,100.0	9,000.0	22,157.8	9,000.0	128.2	113.7	88.42	-12,886.9	-1,446.3	936.8	697.4	239.37	3.914	
22,200.0	9,000.0	22,257.8	9,000.0	129.1	114.6	88.42	-12,986.9	-1,447.1	936.8	695.7	241.16	3.885	
22,300.0	9,000.0	22,357.8	9,000.0	130.1	115.4	88.42	-13,086.9	-1,448.0	936.8	693.9	242.94	3.856	
22,400.0	9,000.0	22,457.8	9,000.0	131.0	116.3	88.42	-13,186.9	-1,448.9	936.8	692.1	244.73	3.828	
22,500.0	9,000.0	22,557.8	9,000.0	132.0	117.1	88.42	-13,286.9	-1,449.8	936.8	690.3	246.51	3.800	
22,600.0	9,000.0	22,657.8	9,000.0	132.9	118.0	88.42	-13,386.9	-1,450.7	936.8	688.5	248.30	3.773	
22,700.0	9,000.0	22,757.8	9,000.0	133.9	118.8	88.42	-13,486.9	-1,451.5	936.8	686.7	250.08	3.746	
22,800.0	9,000.0	22,857.8	9,000.0	134.8	119.7	88.42	-13,586.9	-1,452.4	936.8	684.9	251.87	3.719	
22,900.0	9,000.0	22,957.8	9,000.0	135.8	120.5	88.42	-13,686.9	-1,453.3	936.8	683.1	253.65	3.693	
23,000.0	9,000.0	23,057.8	9,000.0	136.8	121.4	88.42	-13,786.9	-1,454.2	936.8	681.3	255.44	3.667	
23,100.0	9,000.0	23,157.8	9,000.0	137.7	122.2	88.42	-13,886.9	-1,455.1	936.7	679.5	257.23	3.642	
23,200.0	9,000.0	23,257.8	9,000.0	138.7	123.1	88.42	-13,986.9	-1,455.9	936.7	677.7	259.01	3.617	
23,300.0	9,000.0	23,357.8	9,000.0	139.6	123.9	88.42	-14,086.9	-1,456.8	936.7	675.9	260.80	3.592	
23,400.0	9,000.0	23,457.8	9,000.0	140.6	124.8	88.42	-14,186.9	-1,457.7	936.7	674.1	262.58	3.567	
23,500.0	9,000.0	23,557.8	9,000.0	141.5	125.6	88.42	-14,286.9	-1,458.6	936.7	672.3	264.37	3.543	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 706H - OWB - PWP1												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 SDI_KPR_WL_NS-CT, 1000-r.5 MWD+IFR1+SAG+FDIR, 8589-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Offset Wellbore Centre		Distance		Rule Assigned:			
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
23,600.0	9,000.0	23,657.8	9,000.0	142.5	126.5	88.42	-14,386.9	-1,459.4	936.7	670.5	266.16	3.519	
23,700.0	9,000.0	23,757.8	9,000.0	143.5	127.3	88.42	-14,486.9	-1,460.3	936.7	668.8	267.95	3.496	
23,800.0	9,000.0	23,857.8	9,000.0	144.4	128.2	88.42	-14,586.9	-1,461.2	936.7	667.0	269.73	3.473	
23,900.0	9,000.0	23,957.8	9,000.0	145.4	129.0	88.42	-14,686.9	-1,462.1	936.7	665.2	271.52	3.450	
24,000.0	9,000.0	24,057.8	9,000.0	146.3	129.9	88.42	-14,786.9	-1,463.0	936.7	663.4	273.31	3.427	
24,100.0	9,000.0	24,157.8	9,000.0	147.3	130.7	88.42	-14,886.9	-1,463.8	936.7	661.6	275.10	3.405	
24,200.0	9,000.0	24,257.8	9,000.0	148.2	131.6	88.42	-14,986.9	-1,464.7	936.7	659.8	276.89	3.383	
24,242.2	9,000.0	24,300.0	9,000.0	148.7	132.0	88.42	-15,029.0	-1,465.1	936.7	659.0	277.64	3.374	
24,300.0	9,000.0	24,357.8	9,000.0	149.2	132.4	88.42	-15,086.9	-1,465.7	936.8	658.1	278.67	3.362	
24,395.4	9,000.0	24,453.2	9,000.0	150.1	133.3	88.42	-15,182.2	-1,466.5	936.8	656.4	280.38	3.341	
24,400.0	9,000.0	24,453.2	9,000.0	150.2	133.3	88.42	-15,182.2	-1,466.5	936.8	656.4	280.41	3.341 ES, SF	
24,424.2	9,000.0	24,453.2	9,000.0	150.4	133.3	88.42	-15,182.2	-1,466.5	937.2	656.7	280.47	3.341	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1						Rule Assigned:					Offset Well Error: 0.0 usft	
Measured Depth	Reference	Offset	Semi Major Axis				Offset Wellbore Centre		Distance					
Depth (usft)	Depth (usft)	Depth (usft)	Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-0.92	150.0	-2.4	150.1					
100.0	100.0	95.4	95.4	0.8	0.7	-0.92	150.0	-2.4	150.0	148.0	1.99	75.458		
200.0	200.0	195.4	195.4	1.4	1.4	-0.92	150.0	-2.4	150.0	146.7	3.31	45.288		
300.0	300.0	295.4	295.4	1.9	1.9	-0.92	150.0	-2.4	150.0	145.8	4.21	35.665		
400.0	400.0	395.4	395.4	2.2	2.2	-0.92	150.0	-2.4	150.0	145.1	4.93	30.450		
500.0	500.0	495.4	495.4	2.6	2.5	-0.92	150.0	-2.4	150.0	144.5	5.55	27.031		
600.0	600.0	595.4	595.4	2.8	2.8	-0.92	150.0	-2.4	150.0	143.9	6.11	24.558		
700.0	700.0	695.4	695.4	3.1	3.1	-0.92	150.0	-2.4	150.0	143.4	6.62	22.659		
800.0	800.0	795.4	795.4	3.3	3.3	-0.92	150.0	-2.4	150.0	142.9	7.10	21.139		
900.0	900.0	895.4	895.4	3.6	3.6	-0.92	150.0	-2.4	150.0	142.5	7.54	19.884		
1,000.0	1,000.0	995.4	995.4	3.8	3.8	-0.92	150.0	-2.4	150.0	142.1	7.97	18.825		
1,100.0	1,100.0	1,095.4	1,095.4	4.0	4.0	-0.92	150.0	-2.4	150.0	141.6	8.37	17.916		
1,200.0	1,200.0	1,195.4	1,195.4	4.2	4.2	-0.92	150.0	-2.4	150.0	141.3	8.76	17.122		
1,300.0	1,300.0	1,295.4	1,295.4	4.4	4.4	-0.92	150.0	-2.4	150.0	140.9	9.14	16.422		
1,400.0	1,400.0	1,395.4	1,395.4	4.6	4.6	-0.92	150.0	-2.4	150.0	140.5	9.50	15.798		
1,500.0	1,500.0	1,495.4	1,495.4	4.7	4.7	-0.92	150.0	-2.4	150.0	140.2	9.85	15.236		
1,529.6	1,529.6	1,523.9	1,523.9	4.8	4.8	46.48	150.1	-2.3	150.0	140.0	9.98	15.037 CC		
1,600.0	1,600.0	1,591.3	1,591.3	5.0	5.0	47.17	151.3	-1.7	150.1	139.8	10.29	14.592 ES		
1,700.0	1,699.8	1,686.7	1,686.6	5.3	5.2	49.46	155.2	0.7	150.9	140.1	10.72	14.069		
1,800.0	1,799.5	1,781.7	1,781.2	5.6	5.5	53.18	161.9	4.7	152.7	141.6	11.16	13.686		
1,900.0	1,898.7	1,876.2	1,875.2	5.9	5.7	58.16	171.2	10.2	156.5	145.0	11.51	13.596		
2,000.0	1,997.5	1,974.6	1,972.7	6.2	5.9	64.23	182.0	16.6	161.4	149.5	11.89	13.573		
2,071.3	2,067.5	2,044.4	2,041.9	6.4	6.1	68.95	189.7	21.2	165.2	153.0	12.14	13.609		
2,100.0	2,095.7	2,072.5	2,069.8	6.4	6.2	70.92	192.8	23.1	166.9	154.7	12.22	13.656		
2,200.0	2,193.7	2,170.2	2,166.7	6.7	6.5	77.45	203.6	29.5	174.5	161.9	12.63	13.821		
2,300.0	2,291.7	2,267.9	2,263.6	7.0	6.7	83.38	214.4	35.9	184.2	171.2	13.04	14.128		
2,400.0	2,389.7	2,365.7	2,360.6	7.4	7.0	88.68	225.1	42.3	195.7	182.3	13.46	14.540		
2,500.0	2,487.7	2,463.4	2,457.5	7.7	7.4	93.38	235.9	48.7	208.8	194.9	13.90	15.025		
2,600.0	2,585.7	2,561.1	2,554.4	8.0	7.7	97.52	246.7	55.1	223.1	208.7	14.34	15.557		
2,700.0	2,683.8	2,658.9	2,651.3	8.4	8.0	101.15	257.4	61.5	238.4	223.6	14.79	16.114		
2,800.0	2,781.8	2,756.6	2,748.3	8.8	8.3	104.34	268.2	67.9	254.5	239.3	15.26	16.682		
2,900.0	2,879.8	2,854.4	2,845.2	9.2	8.7	107.15	279.0	74.3	271.4	255.7	15.73	17.250		
3,000.0	2,977.8	2,952.1	2,942.1	9.6	9.0	109.64	289.7	80.7	288.8	272.6	16.22	17.809		
3,100.0	3,075.8	3,049.8	3,039.1	10.0	9.4	111.83	300.5	87.1	306.7	290.0	16.71	18.355		
3,200.0	3,173.9	3,147.6	3,136.0	10.4	9.7	113.79	311.3	93.5	325.0	307.8	17.21	18.883		
3,300.0	3,271.9	3,245.3	3,232.9	10.8	10.1	115.54	322.0	99.9	343.6	325.9	17.72	19.393		
3,400.0	3,369.9	3,343.0	3,329.8	11.2	10.5	117.11	332.8	106.3	362.5	344.3	18.22	19.892		
3,500.0	3,467.9	3,444.0	3,430.0	11.6	10.8	118.61	343.6	112.7	381.3	362.6	18.75	20.342		
3,600.0	3,565.9	3,547.1	3,532.5	12.0	11.2	120.16	353.2	118.4	399.2	379.9	19.30	20.682		
3,700.0	3,663.9	3,650.3	3,635.3	12.4	11.6	121.75	361.2	123.2	416.1	396.3	19.85	20.963		
3,800.0	3,762.0	3,753.8	3,738.5	12.9	11.9	123.40	367.6	127.0	432.0	411.6	20.39	21.186		
3,900.0	3,860.0	3,857.3	3,841.8	13.3	12.3	125.10	372.4	129.8	447.0	426.1	20.93	21.354		
3,905.1	3,865.0	3,862.6	3,847.1	13.3	12.3	125.19	372.6	129.9	447.8	426.8	20.96	21.361		
4,000.0	3,958.1	3,960.9	3,945.5	13.7	12.6	126.89	375.6	131.7	460.7	439.3	21.46	21.472		
4,100.0	4,056.6	4,064.9	4,049.4	14.2	12.9	128.57	377.2	132.7	472.6	450.6	21.96	21.516		
4,200.0	4,155.4	4,166.3	4,150.8	14.6	13.0	130.10	377.4	132.8	482.7	460.3	22.40	21.544		
4,300.0	4,254.4	4,265.3	4,249.8	15.0	13.1	131.40	377.4	132.8	491.8	469.0	22.82	21.547		
4,400.0	4,353.7	4,364.6	4,349.1	15.4	13.2	132.50	377.4	132.8	499.9	476.7	23.24	21.508		
4,500.0	4,453.2	4,464.1	4,448.6	15.8	13.2	133.42	377.4	132.8	507.1	483.4	23.66	21.429		
4,600.0	4,552.8	4,563.7	4,548.2	16.2	13.3	134.16	377.4	132.8	513.1	489.0	24.07	21.314		
4,700.0	4,652.5	4,663.4	4,647.9	16.5	13.4	134.75	377.4	132.8	517.9	493.5	24.47	21.168		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,752.4	4,763.3	4,747.8	16.9	13.5	135.18	377.4	132.8	521.6	496.8	24.85	20.994	
4,900.0	4,852.3	4,863.2	4,847.7	17.2	13.5	135.46	377.4	132.8	524.1	498.9	25.20	20.800	
5,000.0	4,952.3	4,963.2	4,947.7	17.4	13.6	135.60	377.4	132.8	525.3	499.8	25.50	20.596	
5,047.7	5,000.0	5,010.9	4,995.4	17.5	13.6	88.28	377.4	132.8	525.4	499.8	25.59	20.531	
5,100.0	5,052.3	5,063.2	5,047.7	17.5	13.7	88.28	377.4	132.8	525.4	499.8	25.65	20.481	
5,200.0	5,152.3	5,163.2	5,147.7	17.6	13.8	88.28	377.4	132.8	525.4	499.6	25.81	20.359	
5,300.0	5,252.3	5,263.2	5,247.7	17.6	13.8	88.28	377.4	132.8	525.4	499.5	25.96	20.238	
5,400.0	5,352.3	5,363.2	5,347.7	17.7	13.9	88.28	377.4	132.8	525.4	499.3	26.12	20.119	
5,500.0	5,452.3	5,463.2	5,447.7	17.7	14.0	88.28	377.4	132.8	525.4	499.2	26.27	20.002	
5,600.0	5,552.3	5,563.2	5,547.7	17.8	14.1	88.28	377.4	132.8	525.4	499.0	26.42	19.885	
5,700.0	5,652.3	5,663.2	5,647.7	17.8	14.1	88.28	377.4	132.8	525.4	498.9	26.58	19.770	
5,800.0	5,752.3	5,763.2	5,747.7	17.9	14.2	88.28	377.4	132.8	525.4	498.7	26.73	19.656	
5,900.0	5,852.3	5,863.2	5,847.7	18.0	14.3	88.28	377.4	132.8	525.4	498.5	26.88	19.544	
6,000.0	5,952.3	5,963.2	5,947.7	18.0	14.4	88.28	377.4	132.8	525.4	498.4	27.04	19.432	
6,100.0	6,052.3	6,063.2	6,047.7	18.1	14.4	88.28	377.4	132.8	525.4	498.2	27.19	19.322	
6,200.0	6,152.3	6,163.2	6,147.7	18.1	14.5	88.28	377.4	132.8	525.4	498.1	27.35	19.213	
6,300.0	6,252.3	6,263.2	6,247.7	18.2	14.6	88.28	377.4	132.8	525.4	497.9	27.50	19.105	
6,400.0	6,352.3	6,363.2	6,347.7	18.3	14.7	88.28	377.4	132.8	525.4	497.8	27.66	18.999	
6,500.0	6,452.3	6,463.2	6,447.7	18.3	14.8	88.28	377.4	132.8	525.4	497.6	27.81	18.893	
6,600.0	6,552.3	6,563.2	6,547.7	18.4	14.8	88.28	377.4	132.8	525.4	497.5	27.96	18.789	
6,700.0	6,652.3	6,663.2	6,647.7	18.4	14.9	88.28	377.4	132.8	525.4	497.3	28.12	18.686	
6,800.0	6,752.3	6,763.2	6,747.7	18.5	15.0	88.28	377.4	132.8	525.4	497.2	28.27	18.583	
6,900.0	6,852.3	6,863.2	6,847.7	18.5	15.1	88.28	377.4	132.8	525.4	497.0	28.43	18.482	
7,000.0	6,952.3	6,963.2	6,947.7	18.6	15.1	88.28	377.4	132.8	525.4	496.8	28.58	18.382	
7,100.0	7,052.3	7,063.2	7,047.7	18.7	15.2	88.28	377.4	132.8	525.4	496.7	28.74	18.283	
7,200.0	7,152.3	7,163.2	7,147.7	18.7	15.3	88.28	377.4	132.8	525.4	496.5	28.89	18.185	
7,300.0	7,252.3	7,263.2	7,247.7	18.8	15.4	88.28	377.4	132.8	525.4	496.4	29.05	18.088	
7,400.0	7,352.3	7,363.2	7,347.7	18.8	15.4	88.28	377.4	132.8	525.4	496.2	29.20	17.992	
7,500.0	7,452.3	7,463.2	7,447.7	18.9	15.5	88.28	377.4	132.8	525.4	496.1	29.36	17.897	
7,600.0	7,552.3	7,563.2	7,547.7	19.0	15.6	88.28	377.4	132.8	525.4	495.9	29.51	17.803	
7,700.0	7,652.3	7,663.2	7,647.7	19.0	15.7	88.28	377.4	132.8	525.4	495.8	29.67	17.709	
7,800.0	7,752.3	7,763.2	7,747.7	19.1	15.8	88.28	377.4	132.8	525.4	495.6	29.82	17.617	
7,900.0	7,852.3	7,863.2	7,847.7	19.2	15.8	88.28	377.4	132.8	525.4	495.4	29.98	17.526	
8,000.0	7,952.3	7,963.2	7,947.7	19.2	15.9	88.28	377.4	132.8	525.4	495.3	30.14	17.435	
8,100.0	8,052.3	8,063.2	8,047.7	19.3	16.0	88.28	377.4	132.8	525.4	495.1	30.29	17.346	
8,200.0	8,152.3	8,163.2	8,147.7	19.3	16.1	88.28	377.4	132.8	525.4	495.0	30.45	17.257	
8,300.0	8,252.3	8,263.2	8,247.7	19.4	16.1	88.28	377.4	132.8	525.4	494.8	30.60	17.169	
8,400.0	8,352.3	8,363.2	8,347.7	19.5	16.2	88.28	377.4	132.8	525.4	494.7	30.76	17.082	
8,500.0	8,452.3	8,463.2	8,447.7	19.5	16.3	88.28	377.4	132.8	525.4	494.5	30.91	16.996	
8,570.2	8,522.5	8,533.4	8,517.9	19.6	16.4	88.28	377.4	132.8	525.4	494.4	31.01	16.943	
8,575.0	8,527.3	8,538.2	8,522.7	19.6	16.4	-92.23	377.4	132.8	525.4	494.4	31.02	16.941	
8,600.0	8,552.3	8,563.2	8,547.7	19.6	16.4	-92.33	377.4	132.8	525.5	494.4	31.04	16.931	
8,625.0	8,577.2	8,588.1	8,572.6	19.6	16.4	-92.56	377.4	132.8	525.6	494.5	31.04	16.931	
8,650.0	8,601.9	8,612.9	8,597.3	19.6	16.4	-92.91	377.4	132.8	525.7	494.7	31.04	16.938	
8,675.0	8,626.5	8,637.4	8,621.9	19.6	16.4	-93.39	377.4	132.8	526.0	495.0	31.03	16.953	
8,700.0	8,650.7	8,661.6	8,646.1	19.6	16.5	-93.99	377.4	132.8	526.4	495.4	31.01	16.978	
8,725.0	8,674.6	8,685.5	8,670.0	19.6	16.5	-94.68	377.4	132.8	527.0	496.0	30.98	17.013	
8,750.0	8,698.1	8,709.0	8,693.5	19.6	16.5	-95.45	377.4	132.8	527.8	496.9	30.94	17.059	
8,775.0	8,721.1	8,732.0	8,716.5	19.6	16.5	-96.30	377.4	132.8	528.9	498.0	30.90	17.119	
8,800.0	8,743.5	8,754.5	8,738.9	19.6	16.5	-97.19	377.4	132.8	530.3	499.5	30.85	17.193	
8,825.0	8,765.4	8,776.3	8,760.8	19.6	16.5	-98.11	377.4	132.8	532.2	501.4	30.79	17.283	

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 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference	Offset	Semi Major Axis	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
8,850.0	8,786.6	8,797.5	8,782.0	19.7	16.6	-99.03	377.4	132.8	534.5	503.8	30.73	17.391	
8,875.0	8,807.0	8,817.9	8,802.4	19.7	16.6	-99.93	377.4	132.8	537.4	506.7	30.68	17.517	
8,900.0	8,826.7	8,837.6	8,822.1	19.7	16.6	-100.80	377.4	132.8	540.9	510.2	30.62	17.665	
8,925.0	8,845.6	8,856.5	8,841.0	19.7	16.6	-101.60	377.4	132.8	545.0	514.5	30.56	17.834	
8,950.0	8,863.5	8,874.4	8,858.9	19.7	16.6	-102.31	377.4	132.8	550.0	519.5	30.51	18.026	
8,975.0	8,880.5	8,891.4	8,875.9	19.7	16.6	-102.92	377.4	132.8	555.7	525.2	30.46	18.242	
9,000.0	8,896.6	8,907.5	8,892.0	19.8	16.6	-103.40	377.4	132.8	562.3	531.8	30.42	18.482	
9,025.0	8,911.6	8,922.5	8,907.0	19.8	16.7	-103.72	377.4	132.8	569.7	539.3	30.39	18.747	
9,050.0	8,925.5	8,936.4	8,920.9	19.8	16.7	-103.88	377.4	132.8	578.1	547.7	30.37	19.036	
9,075.0	8,938.4	8,949.3	8,933.8	19.8	16.7	-103.84	377.4	132.8	587.4	557.0	30.35	19.351	
9,100.0	8,950.1	8,961.0	8,945.5	19.8	16.7	-103.60	377.4	132.8	597.6	567.3	30.35	19.690	
9,125.0	8,960.6	8,971.5	8,956.0	19.9	16.7	-103.13	377.4	132.8	608.8	578.4	30.36	20.052	
9,150.0	8,970.0	8,980.9	8,965.4	19.9	16.7	-102.42	377.4	132.8	620.8	590.5	30.38	20.438	
9,175.0	8,978.1	8,989.0	8,973.5	19.9	16.7	-101.44	377.4	132.8	633.8	603.4	30.40	20.847	
9,200.0	8,984.9	8,995.8	8,980.3	19.9	16.7	-100.19	377.4	132.8	647.5	617.1	30.43	21.276	
9,225.0	8,990.5	9,001.4	8,985.9	20.0	16.7	-98.65	377.4	132.8	662.1	631.6	30.47	21.726	
9,250.0	8,994.8	9,005.7	8,990.2	20.0	16.7	-96.81	377.4	132.8	677.4	646.9	30.52	22.195	
9,275.0	8,997.8	9,008.7	8,993.2	20.0	16.7	-94.66	377.4	132.8	693.3	662.7	30.57	22.682	
9,300.0	8,999.5	9,010.4	8,994.9	20.1	16.7	-92.20	377.4	132.8	709.9	679.2	30.62	23.184	
9,320.2	9,000.0	9,010.9	8,995.4	20.1	16.7	-90.00	377.4	132.8	723.6	692.9	30.66	23.600	
9,400.0	9,000.0	9,010.9	8,995.4	20.2	16.7	-90.00	377.4	132.8	780.7	749.8	30.84	25.311	
9,500.0	9,000.0	9,010.9	8,995.4	20.4	16.7	-90.00	377.4	132.8	857.3	826.2	31.08	27.580	
9,600.0	9,000.0	9,010.9	8,995.4	20.5	16.7	-90.00	377.4	132.8	938.4	907.0	31.32	29.962	
9,700.0	9,000.0	10,487.9	9,800.0	20.8	18.1	-146.85	-500.0	125.6	961.0	924.0	37.04	25.945	
9,800.0	9,000.0	10,587.9	9,800.0	21.0	18.3	-146.84	-600.0	124.7	961.1	923.4	37.70	25.492	
9,900.0	9,000.0	10,687.9	9,800.0	21.3	18.6	-146.84	-700.0	123.9	961.1	922.7	38.42	25.014	
10,000.0	9,000.0	10,787.9	9,800.0	21.7	19.0	-146.84	-800.0	123.1	961.1	921.9	39.20	24.518	
10,100.0	9,000.0	10,887.9	9,800.0	22.0	19.5	-146.83	-900.0	122.3	961.2	921.1	40.04	24.008	
10,200.0	9,000.0	10,987.9	9,800.0	22.4	20.0	-146.83	-1,000.0	121.5	961.2	920.3	40.92	23.490	
10,300.0	9,000.0	11,087.9	9,800.0	22.9	20.5	-146.83	-1,100.0	120.6	961.3	919.4	41.85	22.967	
10,400.0	9,000.0	11,187.9	9,800.0	23.4	21.1	-146.83	-1,200.0	119.8	961.3	918.5	42.83	22.444	
10,500.0	9,000.0	11,287.9	9,800.0	23.9	21.8	-146.82	-1,300.0	119.0	961.3	917.5	43.85	21.923	
10,600.0	9,000.0	11,387.9	9,800.0	24.4	22.4	-146.82	-1,399.9	118.2	961.4	916.4	44.91	21.408	
10,700.0	9,000.0	11,487.9	9,800.0	25.0	23.1	-146.82	-1,499.9	117.3	961.4	915.4	46.00	20.899	
10,800.0	9,000.0	11,587.9	9,800.0	25.6	23.9	-146.81	-1,599.9	116.5	961.4	914.3	47.13	20.400	
10,900.0	9,000.0	11,687.9	9,800.0	26.3	24.6	-146.81	-1,699.9	115.7	961.5	913.2	48.29	19.911	
11,000.0	9,000.0	11,787.9	9,800.0	26.9	25.4	-146.81	-1,799.9	114.9	961.5	912.0	49.47	19.434	
11,100.0	9,000.0	11,887.9	9,800.0	27.6	26.2	-146.80	-1,899.9	114.0	961.5	910.8	50.69	18.969	
11,200.0	9,000.0	11,987.9	9,800.0	28.3	26.9	-146.80	-1,999.9	113.2	961.6	909.6	51.93	18.517	
11,300.0	9,000.0	12,087.9	9,800.0	29.0	27.7	-146.80	-2,099.9	112.4	961.6	908.4	53.19	18.078	
11,400.0	9,000.0	12,187.9	9,800.0	29.8	28.6	-146.79	-2,199.9	111.6	961.6	907.1	54.48	17.652	
11,500.0	9,000.0	12,287.9	9,800.0	30.5	29.4	-146.79	-2,299.9	110.7	961.7	905.9	55.78	17.240	
11,600.0	9,000.0	12,387.9	9,800.0	31.3	30.2	-146.79	-2,399.9	109.9	961.7	904.6	57.10	16.841	
11,700.0	9,000.0	12,487.9	9,800.0	32.1	31.1	-146.78	-2,499.9	109.1	961.7	903.3	58.45	16.455	
11,800.0	9,000.0	12,587.9	9,800.0	32.8	31.9	-146.78	-2,599.9	108.3	961.8	902.0	59.80	16.082	
11,900.0	9,000.0	12,687.9	9,800.0	33.6	32.8	-146.78	-2,699.9	107.5	961.8	900.6	61.17	15.722	
12,000.0	9,000.0	12,787.9	9,800.0	34.5	33.6	-146.78	-2,799.9	106.6	961.8	899.3	62.56	15.374	
12,100.0	9,000.0	12,887.9	9,800.0	35.3	34.5	-146.77	-2,899.9	105.8	961.9	897.9	63.96	15.038	
12,200.0	9,000.0	12,987.9	9,800.0	36.1	35.4	-146.77	-2,999.9	105.0	961.9	896.5	65.37	14.714	
12,300.0	9,000.0	13,087.9	9,800.0	36.9	36.2	-146.77	-3,099.9	104.2	961.9	895.1	66.80	14.401	
12,400.0	9,000.0	13,187.9	9,800.0	37.8	37.1	-146.76	-3,199.9	103.3	962.0	893.7	68.23	14.099	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,500.0	9,000.0	13,287.9	9,800.0	38.6	38.0	-146.76	-3,299.9	102.5	962.0	892.3	69.68	13.807	
12,600.0	9,000.0	13,387.9	9,800.0	39.5	38.9	-146.76	-3,399.9	101.7	962.0	890.9	71.13	13.525	
12,700.0	9,000.0	13,487.9	9,800.0	40.3	39.8	-146.75	-3,499.9	100.9	962.1	889.5	72.59	13.253	
12,800.0	9,000.0	13,587.9	9,800.0	41.2	40.7	-146.75	-3,599.9	100.0	962.1	888.0	74.07	12.990	
12,900.0	9,000.0	13,687.9	9,800.0	42.1	41.6	-146.75	-3,699.9	99.2	962.1	886.6	75.55	12.736	
13,000.0	9,000.0	13,787.9	9,800.0	42.9	42.5	-146.74	-3,799.9	98.4	962.2	885.1	77.03	12.490	
13,100.0	9,000.0	13,887.9	9,800.0	43.8	43.4	-146.74	-3,899.9	97.6	962.2	883.7	78.53	12.253	
13,200.0	9,000.0	13,987.9	9,800.0	44.7	44.3	-146.74	-3,999.9	96.7	962.2	882.2	80.03	12.024	
13,300.0	9,000.0	14,087.9	9,800.0	45.6	45.2	-146.74	-4,099.9	95.9	962.3	880.7	81.54	11.802	
13,400.0	9,000.0	14,187.9	9,800.0	46.5	46.1	-146.73	-4,199.9	95.1	962.3	879.3	83.05	11.587	
13,500.0	9,000.0	14,287.9	9,800.0	47.4	47.1	-146.73	-4,299.9	94.3	962.3	877.8	84.57	11.379	
13,600.0	9,000.0	14,387.9	9,800.0	48.3	48.0	-146.73	-4,399.8	93.4	962.4	876.3	86.09	11.178	
13,700.0	9,000.0	14,487.9	9,800.0	49.2	48.9	-146.72	-4,499.8	92.6	962.4	874.8	87.62	10.983	
13,800.0	9,000.0	14,587.9	9,800.0	50.1	49.8	-146.72	-4,599.8	91.8	962.4	873.3	89.16	10.795	
13,900.0	9,000.0	14,687.9	9,800.0	51.0	50.7	-146.72	-4,699.8	91.0	962.5	871.8	90.70	10.612	
14,000.0	9,000.0	14,787.9	9,800.0	51.9	51.7	-146.71	-4,799.8	90.2	962.5	870.3	92.24	10.435	
14,100.0	9,000.0	14,887.9	9,800.0	52.8	52.6	-146.71	-4,899.8	89.3	962.5	868.8	93.79	10.263	
14,200.0	9,000.0	14,987.9	9,800.0	53.7	53.5	-146.71	-4,999.8	88.5	962.6	867.2	95.34	10.096	
14,300.0	9,000.0	15,087.9	9,800.0	54.6	54.4	-146.70	-5,099.8	87.7	962.6	865.7	96.89	9.935	
14,400.0	9,000.0	15,187.9	9,800.0	55.5	55.4	-146.70	-5,199.8	86.9	962.6	864.2	98.45	9.778	
14,500.0	9,000.0	15,287.9	9,800.0	56.4	56.3	-146.70	-5,299.8	86.0	962.7	862.7	100.01	9.625	
14,600.0	9,000.0	15,387.9	9,800.0	57.4	57.2	-146.70	-5,399.8	85.2	962.7	861.1	101.58	9.477	
14,700.0	9,000.0	15,487.9	9,800.0	58.3	58.2	-146.69	-5,499.8	84.4	962.8	859.6	103.15	9.334	
14,800.0	9,000.0	15,587.9	9,800.0	59.2	59.1	-146.69	-5,599.8	83.6	962.8	858.1	104.72	9.194	
14,900.0	9,000.0	15,687.9	9,800.0	60.1	60.0	-146.69	-5,699.8	82.7	962.8	856.5	106.29	9.058	
15,000.0	9,000.0	15,787.9	9,800.0	61.0	61.0	-146.68	-5,799.8	81.9	962.9	855.0	107.87	8.926	
15,100.0	9,000.0	15,887.9	9,800.0	62.0	61.9	-146.68	-5,899.8	81.1	962.9	853.4	109.45	8.798	
15,200.0	9,000.0	15,987.9	9,800.0	62.9	62.8	-146.68	-5,999.8	80.3	962.9	851.9	111.03	8.672	
15,300.0	9,000.0	16,087.9	9,800.0	63.8	63.8	-146.67	-6,099.8	79.4	963.0	850.3	112.62	8.551	
15,400.0	9,000.0	16,187.9	9,800.0	64.7	64.7	-146.67	-6,199.8	78.6	963.0	848.8	114.20	8.432	
15,500.0	9,000.0	16,287.9	9,800.0	65.7	65.7	-146.67	-6,299.8	77.8	963.0	847.2	115.79	8.317	
15,600.0	9,000.0	16,387.9	9,800.0	66.6	66.6	-146.66	-6,399.8	77.0	963.1	845.7	117.38	8.204	
15,700.0	9,000.0	16,487.9	9,800.0	67.5	67.5	-146.66	-6,499.8	76.1	963.1	844.1	118.98	8.095	
15,800.0	9,000.0	16,587.9	9,800.0	68.5	68.5	-146.66	-6,599.8	75.3	963.1	842.6	120.57	7.988	
15,900.0	9,000.0	16,687.9	9,800.0	69.4	69.4	-146.65	-6,699.8	74.5	963.2	841.0	122.17	7.884	
16,000.0	9,000.0	16,787.9	9,800.0	70.3	70.4	-146.65	-6,799.8	73.7	963.2	839.4	123.77	7.782	
16,100.0	9,000.0	16,887.9	9,800.0	71.3	71.3	-146.65	-6,899.8	72.9	963.2	837.9	125.37	7.683	
16,200.0	9,000.0	16,987.9	9,800.0	72.2	72.3	-146.65	-6,999.8	72.0	963.3	836.3	126.97	7.587	
16,300.0	9,000.0	17,087.9	9,800.0	73.1	73.2	-146.64	-7,099.8	71.2	963.3	834.7	128.57	7.492	
16,400.0	9,000.0	17,187.9	9,800.0	74.1	74.1	-146.64	-7,199.8	70.4	963.3	833.2	130.18	7.400	
16,500.0	9,000.0	17,287.9	9,800.0	75.0	75.1	-146.64	-7,299.7	69.6	963.4	831.6	131.78	7.310	
16,600.0	9,000.0	17,387.9	9,800.0	75.9	76.0	-146.63	-7,399.7	68.7	963.4	830.0	133.39	7.222	
16,700.0	9,000.0	17,487.9	9,800.0	76.9	77.0	-146.63	-7,499.7	67.9	963.4	828.4	135.00	7.137	
16,800.0	9,000.0	17,587.9	9,800.0	77.8	77.9	-146.63	-7,599.7	67.1	963.5	826.9	136.61	7.053	
16,900.0	9,000.0	17,687.9	9,800.0	78.8	78.9	-146.62	-7,699.7	66.3	963.5	825.3	138.22	6.971	
17,000.0	9,000.0	17,787.9	9,800.0	79.7	79.8	-146.62	-7,799.7	65.4	963.5	823.7	139.84	6.890	
17,100.0	9,000.0	17,887.9	9,800.0	80.6	80.8	-146.62	-7,899.7	64.6	963.6	822.1	141.45	6.812	
17,200.0	9,000.0	17,987.9	9,800.0	81.6	81.7	-146.61	-7,999.7	63.8	963.6	820.5	143.07	6.735	
17,300.0	9,000.0	18,087.9	9,800.0	82.5	82.7	-146.61	-8,099.7	63.0	963.6	819.0	144.68	6.660	
17,400.0	9,000.0	18,187.9	9,800.0	83.5	83.6	-146.61	-8,199.7	62.1	963.7	817.4	146.30	6.587	
17,500.0	9,000.0	18,287.9	9,800.0	84.4	84.6	-146.61	-8,299.7	61.3	963.7	815.8	147.92	6.515	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0												Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1						Rule Assigned:				Offset Well Error: 0.0 usft	
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			No-Go Distance (usft)
17,600.0	9,000.0	18,387.9	9,800.0	85.4	85.5	-146.60	-8,399.7	60.5	963.7	814.2	149.54	6.445	
17,700.0	9,000.0	18,487.9	9,800.0	86.3	86.5	-146.60	-8,499.7	59.7	963.8	812.6	151.16	6.376	
17,800.0	9,000.0	18,587.9	9,800.0	87.3	87.4	-146.60	-8,599.7	58.9	963.8	811.0	152.78	6.308	
17,900.0	9,000.0	18,687.9	9,800.0	88.2	88.4	-146.59	-8,699.7	58.0	963.8	809.4	154.40	6.242	
18,000.0	9,000.0	18,787.9	9,800.0	89.1	89.3	-146.59	-8,799.7	57.2	963.9	807.9	156.03	6.178	
18,100.0	9,000.0	18,887.9	9,800.0	90.1	90.3	-146.59	-8,899.7	56.4	963.9	806.3	157.65	6.114	
18,200.0	9,000.0	18,987.9	9,800.0	91.0	91.2	-146.58	-8,999.7	55.6	963.9	804.7	159.28	6.052	
18,300.0	9,000.0	19,087.9	9,800.0	92.0	92.2	-146.58	-9,099.7	54.7	964.0	803.1	160.90	5.991	
18,400.0	9,000.0	19,187.9	9,800.0	92.9	93.1	-146.58	-9,199.7	53.9	964.0	801.5	162.53	5.931	
18,500.0	9,000.0	19,287.9	9,800.0	93.9	94.1	-146.57	-9,299.7	53.1	964.1	799.9	164.16	5.873	
18,600.0	9,000.0	19,387.9	9,800.0	94.8	95.0	-146.57	-9,399.7	52.3	964.1	798.3	165.79	5.815	
18,700.0	9,000.0	19,487.9	9,800.0	95.8	96.0	-146.57	-9,499.7	51.4	964.1	796.7	167.42	5.759	
18,800.0	9,000.0	19,587.9	9,800.0	96.7	96.9	-146.57	-9,599.7	50.6	964.2	795.1	169.05	5.703	
18,900.0	9,000.0	19,687.9	9,800.0	97.7	97.9	-146.56	-9,699.7	49.8	964.2	793.5	170.68	5.649	
19,000.0	9,000.0	19,787.9	9,800.0	98.6	98.9	-146.56	-9,799.7	49.0	964.2	791.9	172.31	5.596	
19,100.0	9,000.0	19,887.9	9,800.0	99.6	99.8	-146.56	-9,899.7	48.1	964.3	790.3	173.94	5.544	
19,200.0	9,000.0	19,987.9	9,800.0	100.5	100.8	-146.55	-9,999.7	47.3	964.3	788.7	175.57	5.492	
19,300.0	9,000.0	20,087.9	9,800.0	101.5	101.7	-146.55	-10,099.7	46.5	964.3	787.1	177.21	5.442	
19,400.0	9,000.0	20,187.9	9,800.0	102.4	102.7	-146.55	-10,199.6	45.7	964.4	785.5	178.84	5.392	
19,500.0	9,000.0	20,287.9	9,800.0	103.4	103.6	-146.54	-10,299.6	44.8	964.4	783.9	180.48	5.344	
19,600.0	9,000.0	20,387.9	9,800.0	104.3	104.6	-146.54	-10,399.6	44.0	964.4	782.3	182.11	5.296	
19,700.0	9,000.0	20,487.9	9,800.0	105.3	105.5	-146.54	-10,499.6	43.2	964.5	780.7	183.75	5.249	
19,800.0	9,000.0	20,587.9	9,800.0	106.2	106.5	-146.53	-10,599.6	42.4	964.5	779.1	185.38	5.203	
19,900.0	9,000.0	20,687.9	9,800.0	107.2	107.4	-146.53	-10,699.6	41.6	964.5	777.5	187.02	5.157	
20,000.0	9,000.0	20,787.9	9,800.0	108.1	108.4	-146.53	-10,799.6	40.7	964.6	775.9	188.66	5.113	
20,100.0	9,000.0	20,887.9	9,800.0	109.1	109.4	-146.53	-10,899.6	39.9	964.6	774.3	190.29	5.069	
20,200.0	9,000.0	20,987.9	9,800.0	110.0	110.3	-146.52	-10,999.6	39.1	964.6	772.7	191.93	5.026	
20,300.0	9,000.0	21,087.9	9,800.0	111.0	111.3	-146.52	-11,099.6	38.3	964.7	771.1	193.57	4.984	
20,400.0	9,000.0	21,187.9	9,800.0	111.9	112.2	-146.52	-11,199.6	37.4	964.7	769.5	195.21	4.942	
20,500.0	9,000.0	21,287.9	9,800.0	112.9	113.2	-146.51	-11,299.6	36.6	964.7	767.9	196.85	4.901	
20,600.0	9,000.0	21,387.9	9,800.0	113.8	114.1	-146.51	-11,399.6	35.8	964.8	766.3	198.49	4.861	
20,700.0	9,000.0	21,487.9	9,800.0	114.8	115.1	-146.51	-11,499.6	35.0	964.8	764.7	200.13	4.821	
20,800.0	9,000.0	21,587.9	9,800.0	115.7	116.1	-146.50	-11,599.6	34.1	964.8	763.1	201.77	4.782	
20,900.0	9,000.0	21,687.9	9,800.0	116.7	117.0	-146.50	-11,699.6	33.3	964.9	761.5	203.41	4.743	
21,000.0	9,000.0	21,787.9	9,800.0	117.7	118.0	-146.50	-11,799.6	32.5	964.9	759.9	205.06	4.706	
21,100.0	9,000.0	21,887.9	9,800.0	118.6	118.9	-146.49	-11,899.6	31.7	964.9	758.2	206.70	4.668	
21,200.0	9,000.0	21,987.9	9,800.0	119.6	119.9	-146.49	-11,999.6	30.8	965.0	756.6	208.34	4.632	
21,300.0	9,000.0	22,087.9	9,800.0	120.5	120.8	-146.49	-12,099.6	30.0	965.0	755.0	209.98	4.596	
21,400.0	9,000.0	22,187.9	9,800.0	121.5	121.8	-146.49	-12,199.6	29.2	965.0	753.4	211.63	4.560	
21,500.0	9,000.0	22,287.9	9,800.0	122.4	122.8	-146.48	-12,299.6	28.4	965.1	751.8	213.27	4.525	
21,600.0	9,000.0	22,387.9	9,800.0	123.4	123.7	-146.48	-12,399.6	27.5	965.1	750.2	214.92	4.491	
21,700.0	9,000.0	22,487.9	9,800.0	124.3	124.7	-146.48	-12,499.6	26.7	965.1	748.6	216.56	4.457	
21,800.0	9,000.0	22,587.9	9,800.0	125.3	125.6	-146.47	-12,599.6	25.9	965.2	747.0	218.21	4.423	
21,900.0	9,000.0	22,687.9	9,800.0	126.2	126.6	-146.47	-12,699.6	25.1	965.2	745.4	219.85	4.390	
22,000.0	9,000.0	22,787.9	9,800.0	127.2	127.5	-146.47	-12,799.6	24.3	965.3	743.8	221.50	4.358	
22,100.0	9,000.0	22,887.9	9,800.0	128.2	128.5	-146.46	-12,899.6	23.4	965.3	742.1	223.14	4.326	
22,200.0	9,000.0	22,987.9	9,800.0	129.1	129.5	-146.46	-12,999.6	22.6	965.3	740.5	224.79	4.294	
22,300.0	9,000.0	23,087.9	9,800.0	130.1	130.4	-146.46	-13,099.5	21.8	965.4	738.9	226.43	4.263	
22,400.0	9,000.0	23,187.9	9,800.0	131.0	131.4	-146.45	-13,199.5	21.0	965.4	737.3	228.08	4.233	
22,500.0	9,000.0	23,287.9	9,800.0	132.0	132.3	-146.45	-13,299.5	20.1	965.4	735.7	229.73	4.202	
22,600.0	9,000.0	23,387.9	9,800.0	132.9	133.3	-146.45	-13,399.5	19.3	965.5	734.1	231.38	4.173	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 802H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 9341-r.5 MWD+IFR1												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
22,700.0	9,000.0	23,487.9	9,800.0	133.9	134.3	-146.45	-13,499.5	18.5	965.5	732.5	233.02	4.143	
22,800.0	9,000.0	23,587.9	9,800.0	134.8	135.2	-146.44	-13,599.5	17.7	965.5	730.9	234.67	4.114	
22,900.0	9,000.0	23,687.9	9,800.0	135.8	136.2	-146.44	-13,699.5	16.8	965.6	729.2	236.32	4.086	
23,000.0	9,000.0	23,787.9	9,800.0	136.8	137.1	-146.44	-13,799.5	16.0	965.6	727.6	237.97	4.058	
23,100.0	9,000.0	23,887.9	9,800.0	137.7	138.1	-146.43	-13,899.5	15.2	965.6	726.0	239.62	4.030	
23,200.0	9,000.0	23,987.9	9,800.0	138.7	139.0	-146.43	-13,999.5	14.4	965.7	724.4	241.27	4.002	
23,300.0	9,000.0	24,087.9	9,800.0	139.6	140.0	-146.43	-14,099.5	13.5	965.7	722.8	242.92	3.975	
23,400.0	9,000.0	24,187.9	9,800.0	140.6	141.0	-146.42	-14,199.5	12.7	965.7	721.2	244.57	3.949	
23,500.0	9,000.0	24,287.9	9,800.0	141.5	141.9	-146.42	-14,299.5	11.9	965.8	719.6	246.22	3.922	
23,600.0	9,000.0	24,387.9	9,800.0	142.5	142.9	-146.42	-14,399.5	11.1	965.8	717.9	247.87	3.896	
23,700.0	9,000.0	24,487.9	9,800.0	143.5	143.8	-146.41	-14,499.5	10.3	965.8	716.3	249.52	3.871	
23,800.0	9,000.0	24,587.9	9,800.0	144.4	144.8	-146.41	-14,599.5	9.4	965.9	714.7	251.17	3.846	
23,900.0	9,000.0	24,687.9	9,800.0	145.4	145.8	-146.41	-14,699.5	8.6	965.9	713.1	252.82	3.821	
24,000.0	9,000.0	24,787.9	9,800.0	146.3	146.7	-146.41	-14,799.5	7.8	965.9	711.5	254.47	3.796	
24,100.0	9,000.0	24,887.9	9,800.0	147.3	147.7	-146.40	-14,899.5	7.0	966.0	709.9	256.12	3.772	
24,200.0	9,000.0	24,987.9	9,800.0	148.2	148.6	-146.40	-14,999.5	6.1	966.0	708.2	257.77	3.748	
24,300.0	9,000.0	25,087.9	9,800.0	149.2	149.6	-146.40	-15,099.5	5.3	966.0	706.6	259.42	3.724	
24,400.0	9,000.0	25,187.9	9,800.0	150.2	150.6	-146.39	-15,199.5	4.5	966.1	705.0	261.08	3.700	
24,424.2	9,000.0	25,212.2	9,800.0	150.4	150.8	-146.39	-15,223.7	4.3	966.1	704.6	261.48	3.695 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 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 803H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1+SAG+FDIR						Rule Assigned:					Offset Well Error: 0.0 usft	
Measured Depth	Reference	Measured Depth	Offset	Semi Major Axis	Highside	Offset Wellbore Centre		Distance		No-Go	Separation	Warning		
(usft)	Depth (usft)	(usft)	Depth (usft)	Reference (usft)	Offset (usft)	Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)		Factor	
0.0	0.0	0.0	0.0	0.0	0.0	-12.20	149.4	-32.3	152.9					
100.0	100.0	95.4	95.4	0.8	0.7	-12.20	149.4	-32.3	152.9	150.9	1.99	76.883		
200.0	200.0	195.4	195.4	1.4	1.4	-12.20	149.4	-32.3	152.9	149.5	3.31	46.143		
300.0	300.0	295.4	295.4	1.9	1.9	-12.20	149.4	-32.3	152.9	148.6	4.21	36.338		
400.0	400.0	395.4	395.4	2.2	2.2	-12.20	149.4	-32.3	152.9	147.9	4.93	31.025		
500.0	500.0	495.4	495.4	2.6	2.5	-12.20	149.4	-32.3	152.9	147.3	5.55	27.541		
600.0	600.0	595.4	595.4	2.8	2.8	-12.20	149.4	-32.3	152.9	146.7	6.11	25.022		
700.0	700.0	695.4	695.4	3.1	3.1	-12.20	149.4	-32.3	152.9	146.2	6.62	23.087		
800.0	800.0	795.4	795.4	3.3	3.3	-12.20	149.4	-32.3	152.9	145.8	7.10	21.538		
900.0	900.0	895.4	895.4	3.6	3.6	-12.20	149.4	-32.3	152.9	145.3	7.54	20.260		
1,000.0	1,000.0	995.4	995.4	3.8	3.8	-12.20	149.4	-32.3	152.9	144.9	7.97	19.181		
1,100.0	1,100.0	1,095.4	1,095.4	4.0	4.0	-12.20	149.4	-32.3	152.9	144.5	8.37	18.254		
1,200.0	1,200.0	1,195.4	1,195.4	4.2	4.2	-12.20	149.4	-32.3	152.9	144.1	8.76	17.445		
1,300.0	1,300.0	1,295.4	1,295.4	4.4	4.4	-12.20	149.4	-32.3	152.9	143.7	9.14	16.732		
1,400.0	1,400.0	1,395.4	1,395.4	4.6	4.6	-12.20	149.4	-32.3	152.9	143.4	9.50	16.096		
1,500.0	1,500.0	1,495.4	1,495.4	4.7	4.7	-12.20	149.4	-32.3	152.9	143.0	9.85	15.524		
1,600.0	1,600.0	1,593.3	1,593.3	5.0	5.0	35.00	149.7	-33.8	152.1	141.8	10.26	14.827		
1,700.0	1,699.8	1,691.1	1,691.0	5.3	5.2	34.46	150.8	-38.5	149.9	139.2	10.66	14.060		
1,800.0	1,799.5	1,788.8	1,788.3	5.6	5.5	33.49	152.5	-46.5	146.3	135.2	11.08	13.207		
1,900.0	1,898.7	1,886.4	1,885.2	5.9	5.7	32.03	155.0	-57.7	141.4	129.9	11.52	12.276		
2,000.0	1,997.5	1,983.8	1,981.5	6.2	5.9	29.99	158.2	-72.1	135.2	123.3	11.99	11.280		
2,071.3	2,067.5	2,054.4	2,051.0	6.4	6.0	28.25	160.8	-84.0	129.9	117.7	12.29	10.575		
2,100.0	2,095.7	2,082.9	2,079.1	6.4	6.1	27.55	161.8	-88.9	127.5	115.2	12.39	10.293		
2,200.0	2,193.7	2,182.4	2,177.1	6.7	6.2	24.89	165.5	-105.7	119.4	106.5	12.87	9.275		
2,300.0	2,291.7	2,281.9	2,275.1	7.0	6.4	21.86	169.3	-122.6	111.5	98.1	13.38	8.331		
2,400.0	2,389.7	2,381.4	2,373.1	7.4	6.5	18.37	173.0	-139.5	103.9	90.0	13.92	7.464		
2,500.0	2,487.7	2,480.9	2,471.1	7.7	6.7	14.36	176.7	-156.4	96.8	82.3	14.49	6.679		
2,600.0	2,585.7	2,580.4	2,569.1	8.0	6.9	9.75	180.4	-173.2	90.3	75.2	15.09	5.980		
2,700.0	2,683.8	2,678.0	2,665.0	8.4	7.1	4.14	184.2	-190.8	85.3	69.5	15.72	5.424		
2,776.5	2,758.8	2,752.3	2,737.6	8.7	7.3	-1.28	187.5	-206.3	84.0	67.8	16.19	5.187 CC		
2,800.0	2,781.8	2,775.0	2,759.7	8.8	7.3	-3.09	188.6	-211.4	84.1	67.8	16.33	5.152 ES		
2,900.0	2,879.8	2,872.5	2,854.2	9.2	7.5	-11.15	193.6	-235.0	87.4	70.6	16.80	5.201		
3,000.0	2,977.8	2,971.7	2,950.0	9.6	7.6	-18.71	198.8	-259.7	93.0	75.7	17.22	5.398		
3,100.0	3,075.8	3,070.8	3,045.9	10.0	7.8	-25.33	204.0	-284.3	100.0	82.4	17.58	5.687		
3,200.0	3,173.9	3,169.9	3,141.8	10.4	8.0	-31.02	209.2	-309.0	108.2	90.3	17.90	6.044		
3,300.0	3,271.9	3,269.0	3,237.6	10.8	8.1	-35.88	214.4	-333.7	117.3	99.1	18.19	6.448		
3,400.0	3,369.9	3,368.2	3,333.5	11.2	8.3	-40.02	219.6	-358.3	127.1	108.6	18.47	6.882		
3,500.0	3,467.9	3,467.3	3,429.4	11.6	8.5	-43.55	224.8	-383.0	137.5	118.7	18.75	7.333		
3,600.0	3,565.9	3,566.4	3,525.2	12.0	8.7	-46.59	230.1	-407.6	148.3	129.3	19.03	7.792		
3,700.0	3,663.9	3,665.5	3,621.1	12.4	8.9	-49.20	235.3	-432.3	159.5	140.2	19.32	8.254		
3,800.0	3,762.0	3,764.7	3,717.0	12.9	9.1	-51.47	240.5	-457.0	171.0	151.3	19.62	8.712		
3,900.0	3,860.0	3,863.8	3,812.8	13.3	9.3	-53.45	245.7	-481.6	182.7	162.7	19.94	9.162		
3,905.1	3,865.0	3,868.9	3,817.7	13.3	9.3	-53.55	245.9	-482.9	183.3	163.3	19.95	9.185		
4,000.0	3,958.1	3,962.9	3,908.7	13.7	9.5	-55.10	250.9	-506.3	195.0	174.7	20.26	9.624		
4,100.0	4,056.6	4,061.9	4,004.5	14.2	9.7	-56.18	256.1	-530.9	208.4	187.8	20.63	10.101		
4,200.0	4,155.4	4,160.9	4,100.2	14.6	9.9	-56.77	261.3	-555.5	222.9	201.8	21.04	10.591		
4,300.0	4,254.4	4,259.7	4,195.7	15.0	10.1	-56.96	266.4	-580.1	238.2	216.7	21.48	11.090		
4,400.0	4,353.7	4,358.3	4,291.1	15.4	10.3	-56.81	271.6	-604.6	254.5	232.6	21.95	11.595		
4,500.0	4,453.2	4,456.8	4,386.4	15.8	10.5	-56.40	276.8	-629.1	271.8	249.4	22.45	12.108		
4,600.0	4,552.8	4,555.0	4,481.4	16.2	10.7	-55.77	281.9	-653.6	290.1	267.1	22.97	12.629		
4,700.0	4,652.5	4,653.0	4,576.2	16.5	10.9	-54.97	287.1	-677.9	309.4	285.9	23.51	13.161		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 803H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR													Offset Well Error: 0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
4,800.0	4,752.4	4,750.8	4,670.7	16.9	11.1	-54.04	292.2	-702.2	329.8	305.7	24.06	13.707	
4,900.0	4,852.3	4,848.2	4,764.9	17.2	11.3	-53.02	297.3	-726.5	351.3	326.6	24.61	14.271	
5,000.0	4,952.3	4,945.2	4,858.8	17.4	11.5	-51.93	302.4	-750.6	373.9	348.8	25.16	14.862	
5,047.7	5,000.0	4,991.4	4,903.4	17.5	11.6	-98.73	304.8	-762.1	385.2	359.8	25.38	15.177	
5,100.0	5,052.3	5,042.0	4,952.3	17.5	11.7	-98.06	307.5	-774.7	397.7	372.1	25.59	15.540	
5,200.0	5,152.3	5,138.9	5,046.1	17.6	11.9	-96.88	312.6	-798.8	421.8	395.8	26.00	16.221	
5,300.0	5,252.3	5,243.4	5,147.4	17.6	12.1	-95.79	317.9	-823.8	445.1	418.7	26.43	16.844	
5,400.0	5,352.3	5,348.8	5,250.0	17.7	12.3	-94.87	322.8	-847.3	466.9	440.0	26.83	17.399	
5,500.0	5,452.3	5,455.1	5,354.0	17.7	12.5	-94.10	327.4	-869.0	487.0	459.7	27.21	17.894	
5,600.0	5,552.3	5,562.2	5,459.1	17.8	12.7	-93.46	331.6	-889.0	505.4	477.8	27.57	18.331	
5,700.0	5,652.3	5,670.1	5,565.3	17.8	12.9	-92.91	335.5	-907.2	522.0	494.1	27.90	18.709	
5,800.0	5,752.3	5,778.6	5,672.6	17.9	13.1	-92.45	338.9	-923.5	536.9	508.7	28.21	19.030	
5,900.0	5,852.3	5,887.7	5,780.7	18.0	13.4	-92.06	341.9	-937.9	550.0	521.5	28.51	19.294	
6,000.0	5,952.3	5,997.4	5,889.6	18.0	13.6	-91.75	344.6	-950.4	561.3	532.5	28.78	19.503	
6,100.0	6,052.3	6,107.5	5,999.2	18.1	13.8	-91.49	346.8	-960.8	570.7	541.7	29.03	19.657	
6,200.0	6,152.3	6,217.9	6,109.3	18.1	13.9	-91.30	348.5	-969.3	578.3	549.0	29.27	19.759	
6,300.0	6,252.3	6,328.7	6,219.9	18.2	14.1	-91.15	349.9	-975.6	584.0	554.5	29.48	19.809	
6,400.0	6,352.3	6,439.7	6,330.8	18.3	14.3	-91.05	350.8	-979.9	587.8	558.1	29.67	19.810	
6,500.0	6,452.3	6,550.8	6,441.9	18.3	14.4	-91.01	351.2	-982.0	589.7	559.9	29.83	19.772	
6,600.0	6,552.3	6,656.6	6,547.7	18.4	14.5	-91.00	351.3	-982.3	590.0	560.0	29.95	19.698	
6,700.0	6,652.3	6,756.6	6,647.7	18.4	14.6	-91.00	351.3	-982.3	590.0	559.9	30.08	19.614	
6,800.0	6,752.3	6,856.6	6,747.7	18.5	14.6	-91.00	351.3	-982.3	590.0	559.8	30.21	19.529	
6,900.0	6,852.3	6,956.6	6,847.7	18.5	14.7	-91.00	351.3	-982.3	590.0	559.7	30.34	19.445	
7,000.0	6,952.3	7,056.6	6,947.7	18.6	14.8	-91.00	351.3	-982.3	590.0	559.5	30.47	19.361	
7,100.0	7,052.3	7,156.6	7,047.7	18.7	14.8	-91.00	351.3	-982.3	590.0	559.4	30.60	19.278	
7,200.0	7,152.3	7,256.6	7,147.7	18.7	14.9	-91.00	351.3	-982.3	590.0	559.3	30.74	19.196	
7,300.0	7,252.3	7,356.6	7,247.7	18.8	15.0	-91.00	351.3	-982.3	590.0	559.1	30.87	19.113	
7,400.0	7,352.3	7,456.6	7,347.7	18.8	15.0	-91.00	351.3	-982.3	590.0	559.0	31.00	19.032	
7,500.0	7,452.3	7,556.6	7,447.7	18.9	15.1	-91.00	351.3	-982.3	590.0	558.9	31.13	18.951	
7,600.0	7,552.3	7,656.6	7,547.7	19.0	15.2	-91.00	351.3	-982.3	590.0	558.7	31.27	18.870	
7,700.0	7,652.3	7,756.6	7,647.7	19.0	15.2	-91.00	351.3	-982.3	590.0	558.6	31.40	18.790	
7,800.0	7,752.3	7,856.6	7,747.7	19.1	15.3	-91.00	351.3	-982.3	590.0	558.5	31.53	18.711	
7,900.0	7,852.3	7,956.6	7,847.7	19.2	15.4	-91.00	351.3	-982.3	590.0	558.3	31.67	18.632	
8,000.0	7,952.3	8,056.6	7,947.7	19.2	15.4	-91.00	351.3	-982.3	590.0	558.2	31.80	18.553	
8,100.0	8,052.3	8,156.6	8,047.7	19.3	15.5	-91.00	351.3	-982.3	590.0	558.1	31.93	18.476	
8,200.0	8,152.3	8,256.6	8,147.7	19.3	15.5	-91.00	351.3	-982.3	590.0	557.9	32.07	18.398	
8,300.0	8,252.3	8,356.6	8,247.7	19.4	15.6	-91.00	351.3	-982.3	590.0	557.8	32.20	18.321	
8,400.0	8,352.3	8,456.6	8,347.7	19.5	15.7	-91.00	351.3	-982.3	590.0	557.7	32.34	18.245	
8,500.0	8,452.3	8,556.6	8,447.7	19.5	15.7	-91.00	351.3	-982.3	590.0	557.5	32.47	18.169	
8,570.2	8,522.5	8,626.8	8,517.9	19.6	15.8	-91.00	351.3	-982.3	590.0	557.4	32.56	18.123	
8,575.0	8,527.3	8,631.6	8,522.7	19.6	15.8	88.49	351.3	-982.3	590.0	557.4	32.56	18.120	
8,600.0	8,552.3	8,656.6	8,547.7	19.6	15.8	88.59	351.3	-982.3	590.0	557.4	32.59	18.102	
8,625.0	8,577.2	8,681.5	8,572.6	19.6	15.8	88.81	351.3	-982.3	589.9	557.3	32.63	18.077	
8,650.0	8,601.9	8,706.3	8,597.3	19.6	15.8	89.15	351.3	-982.3	589.9	557.2	32.69	18.044	
8,675.0	8,626.5	8,730.8	8,621.9	19.6	15.9	89.61	351.3	-982.3	589.8	557.1	32.76	18.005	
8,692.3	8,643.3	8,747.6	8,638.7	19.6	15.9	90.00	351.3	-982.3	589.8	557.0	32.81	17.974	
8,700.0	8,650.7	8,755.1	8,646.1	19.6	15.9	90.19	351.3	-982.3	589.8	557.0	32.84	17.959	
8,725.0	8,674.6	8,778.9	8,670.0	19.6	15.9	90.86	351.3	-982.3	589.9	556.9	32.94	17.909	
8,750.0	8,698.1	8,802.4	8,693.5	19.6	15.9	91.62	351.3	-982.3	590.1	557.0	33.04	17.857	
8,775.0	8,721.1	8,825.4	8,716.5	19.6	15.9	92.45	351.3	-982.3	590.4	557.3	33.16	17.804	
8,800.0	8,743.5	8,847.9	8,738.9	19.6	15.9	93.33	351.3	-982.3	591.1	557.8	33.30	17.752	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 803H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
8,825.0	8,765.4	8,869.7	8,760.8	19.6	16.0	94.25	351.3	-982.3	592.0	558.5	33.44	17.704	
8,850.0	8,786.6	8,890.9	8,782.0	19.7	16.0	95.18	351.3	-982.3	593.3	559.7	33.59	17.662	
8,875.0	8,807.0	8,911.4	8,802.4	19.7	16.0	96.10	351.3	-982.3	595.0	561.2	33.75	17.628	
8,900.0	8,826.7	8,931.0	8,822.1	19.7	16.0	97.00	351.3	-982.3	597.2	563.3	33.92	17.607	
8,925.0	8,845.6	8,949.9	8,841.0	19.7	16.0	97.84	351.3	-982.3	600.0	565.9	34.09	17.599	
8,950.0	8,863.5	8,967.8	8,858.9	19.7	16.0	98.62	351.3	-982.3	603.5	569.2	34.27	17.608	
8,975.0	8,880.5	8,984.9	8,875.9	19.7	16.0	99.30	351.3	-982.3	607.6	573.2	34.45	17.635	
9,000.0	8,896.6	9,000.9	8,892.0	19.8	16.0	99.88	351.3	-982.3	612.5	577.9	34.64	17.684	
9,025.0	8,911.6	9,015.9	8,907.0	19.8	16.1	100.31	351.3	-982.3	618.2	583.4	34.82	17.756	
9,050.0	8,925.5	9,029.9	8,920.9	19.8	16.1	100.60	351.3	-982.3	624.7	589.7	34.99	17.853	
9,075.0	8,938.4	9,042.7	8,933.8	19.8	16.1	100.72	351.3	-982.3	632.1	596.9	35.16	17.976	
9,100.0	8,950.1	9,054.4	8,945.5	19.8	16.1	100.66	351.3	-982.3	640.4	605.1	35.33	18.127	
9,125.0	8,960.6	9,064.9	8,956.0	19.9	16.1	100.39	351.3	-982.3	649.6	614.1	35.48	18.305	
9,150.0	8,970.0	9,074.3	8,965.4	19.9	16.1	99.91	351.3	-982.3	659.6	624.0	35.63	18.512	
9,175.0	8,978.1	9,082.4	8,973.5	19.9	16.1	99.20	351.3	-982.3	670.5	634.8	35.77	18.747	
9,200.0	8,984.9	9,089.2	8,980.3	19.9	16.1	98.24	351.3	-982.3	682.3	646.4	35.89	19.010	
9,225.0	8,990.5	9,094.8	8,985.9	20.0	16.1	97.03	351.3	-982.3	694.9	658.9	36.00	19.300	
9,250.0	8,994.8	9,099.1	8,990.2	20.0	16.1	95.56	351.3	-982.3	708.2	672.1	36.10	19.615	
9,275.0	8,997.8	9,102.2	8,993.2	20.0	16.1	93.82	351.3	-982.3	722.2	686.0	36.19	19.955	
9,300.0	8,999.5	9,103.9	8,994.9	20.1	16.1	91.81	351.3	-982.3	736.9	700.6	36.27	20.318	
9,320.2	9,000.0	9,104.3	8,995.4	20.1	16.1	90.00	351.3	-982.3	749.2	712.8	36.32	20.627	
9,400.0	9,000.0	9,104.3	8,995.4	20.2	16.1	90.00	351.3	-982.3	800.9	764.4	36.47	21.959	
9,500.0	9,000.0	9,104.3	8,995.4	20.4	16.1	90.00	351.3	-982.3	871.6	835.1	36.56	23.840	
9,600.0	9,000.0	9,104.3	8,995.4	20.5	16.1	90.00	351.3	-982.3	947.7	911.1	36.58	25.909	
9,700.0	9,000.0	10,545.7	9,800.0	20.8	17.7	143.76	-490.4	-989.8	997.6	963.0	34.60	28.833	
9,800.0	9,000.0	10,645.7	9,800.0	21.0	18.1	143.76	-590.4	-990.7	997.6	962.6	35.06	28.453	
9,900.0	9,000.0	10,745.7	9,800.0	21.3	18.5	143.76	-690.4	-991.6	997.6	962.1	35.58	28.040	
10,000.0	9,000.0	10,853.1	9,800.0	21.7	18.9	143.78	-797.8	-992.1	997.4	961.3	36.15	27.593	
10,100.0	9,000.0	10,964.5	9,800.0	22.0	19.4	143.89	-909.2	-990.6	996.1	959.3	36.77	27.088	
10,200.0	9,000.0	11,067.8	9,800.0	22.4	19.8	144.08	-1,012.4	-987.5	993.8	956.4	37.44	26.543	
10,300.0	9,000.0	11,158.5	9,800.0	22.9	20.2	144.20	-1,103.1	-985.6	992.1	953.9	38.16	26.000	
10,400.0	9,000.0	11,249.3	9,800.0	23.4	20.7	144.26	-1,193.9	-985.2	991.3	952.3	38.91	25.476	
10,437.3	9,000.0	11,283.2	9,800.0	23.6	20.9	144.27	-1,227.8	-985.4	991.2	952.0	39.20	25.284	
10,500.0	9,000.0	11,340.1	9,800.0	23.9	21.2	144.25	-1,284.7	-986.1	991.4	951.7	39.70	24.971	
10,600.0	9,000.0	11,430.9	9,800.0	24.4	21.6	144.18	-1,375.5	-988.6	992.4	951.9	40.52	24.490	
10,700.0	9,000.0	11,529.7	9,800.0	25.0	22.2	144.05	-1,474.2	-992.2	994.0	952.6	41.39	24.014	
10,800.0	9,000.0	11,629.7	9,800.0	25.6	22.8	143.92	-1,574.1	-995.8	995.7	953.4	42.31	23.535	
10,900.0	9,000.0	11,729.6	9,800.0	26.3	23.4	143.79	-1,674.0	-999.5	997.3	954.1	43.25	23.060	
11,000.0	9,000.0	11,839.6	9,800.0	26.9	24.0	143.69	-1,784.0	-1,002.7	998.5	954.3	44.24	22.571	
11,100.0	9,000.0	11,946.1	9,800.0	27.6	24.7	143.67	-1,890.4	-1,004.0	998.7	953.4	45.25	22.071	
11,200.0	9,000.0	12,046.1	9,800.0	28.3	25.3	143.67	-1,990.4	-1,004.9	998.7	952.4	46.28	21.581	
11,300.0	9,000.0	12,146.1	9,800.0	29.0	26.0	143.67	-2,090.4	-1,005.8	998.7	951.4	47.33	21.102	
11,400.0	9,000.0	12,246.1	9,800.0	29.8	26.6	143.67	-2,190.4	-1,006.6	998.7	950.3	48.40	20.634	
11,500.0	9,000.0	12,346.1	9,800.0	30.5	27.3	143.67	-2,290.4	-1,007.5	998.7	949.2	49.49	20.178	
11,600.0	9,000.0	12,446.1	9,800.0	31.3	28.0	143.67	-2,390.4	-1,008.4	998.7	948.1	50.61	19.734	
11,700.0	9,000.0	12,546.1	9,800.0	32.1	28.7	143.67	-2,490.4	-1,009.3	998.7	946.9	51.74	19.302	
11,800.0	9,000.0	12,646.1	9,800.0	32.8	29.4	143.67	-2,590.4	-1,010.2	998.7	945.8	52.89	18.883	
11,900.0	9,000.0	12,746.1	9,800.0	33.6	30.1	143.67	-2,690.3	-1,011.0	998.7	944.6	54.05	18.475	
12,000.0	9,000.0	12,846.1	9,800.0	34.5	30.8	143.67	-2,790.3	-1,011.9	998.7	943.4	55.23	18.081	
12,100.0	9,000.0	12,946.1	9,800.0	35.3	31.5	143.67	-2,890.3	-1,012.8	998.7	942.2	56.43	17.698	
12,200.0	9,000.0	13,046.1	9,800.0	36.1	32.2	143.67	-2,990.3	-1,013.7	998.7	941.0	57.64	17.327	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 803H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
12,300.0	9,000.0	13,146.1	9,800.0	36.9	33.0	143.67	-3,090.3	-1,014.6	998.7	939.8	58.86	16.968	
12,400.0	9,000.0	13,246.1	9,800.0	37.8	33.7	143.68	-3,190.3	-1,015.5	998.7	938.6	60.09	16.620	
12,500.0	9,000.0	13,346.1	9,800.0	38.6	34.4	143.68	-3,290.3	-1,016.3	998.7	937.3	61.33	16.283	
12,600.0	9,000.0	13,446.1	9,800.0	39.5	35.2	143.68	-3,390.3	-1,017.2	998.7	936.1	62.59	15.957	
12,700.0	9,000.0	13,546.1	9,800.0	40.3	36.0	143.68	-3,490.3	-1,018.1	998.7	934.8	63.85	15.641	
12,800.0	9,000.0	13,646.1	9,800.0	41.2	36.7	143.68	-3,590.3	-1,019.0	998.7	933.5	65.12	15.336	
12,900.0	9,000.0	13,746.1	9,800.0	42.1	37.5	143.68	-3,690.3	-1,019.9	998.7	932.3	66.40	15.040	
13,000.0	9,000.0	13,846.1	9,800.0	42.9	38.2	143.68	-3,790.3	-1,020.7	998.7	931.0	67.69	14.754	
13,100.0	9,000.0	13,946.1	9,800.0	43.8	39.0	143.68	-3,890.3	-1,021.6	998.6	929.7	68.98	14.476	
13,200.0	9,000.0	14,046.1	9,800.0	44.7	39.8	143.68	-3,990.3	-1,022.5	998.6	928.4	70.29	14.208	
13,300.0	9,000.0	14,146.1	9,800.0	45.6	40.6	143.68	-4,090.3	-1,023.4	998.6	927.0	71.60	13.948	
13,400.0	9,000.0	14,246.1	9,800.0	46.5	41.4	143.68	-4,190.3	-1,024.3	998.6	925.7	72.91	13.696	
13,500.0	9,000.0	14,346.1	9,800.0	47.4	42.1	143.68	-4,290.3	-1,025.2	998.6	924.4	74.24	13.452	
13,600.0	9,000.0	14,446.1	9,800.0	48.3	42.9	143.68	-4,390.3	-1,026.0	998.6	923.1	75.57	13.216	
13,700.0	9,000.0	14,546.1	9,800.0	49.2	43.7	143.68	-4,490.3	-1,026.9	998.6	921.7	76.90	12.986	
13,800.0	9,000.0	14,646.1	9,800.0	50.1	44.5	143.68	-4,590.3	-1,027.8	998.6	920.4	78.24	12.764	
13,900.0	9,000.0	14,746.1	9,800.0	51.0	45.3	143.68	-4,690.3	-1,028.7	998.6	919.0	79.58	12.548	
14,000.0	9,000.0	14,846.1	9,800.0	51.9	46.1	143.68	-4,790.3	-1,029.6	998.6	917.7	80.93	12.339	
14,100.0	9,000.0	14,946.1	9,800.0	52.8	46.9	143.68	-4,890.3	-1,030.4	998.6	916.3	82.28	12.136	
14,200.0	9,000.0	15,046.1	9,800.0	53.7	47.7	143.68	-4,990.3	-1,031.3	998.6	915.0	83.64	11.939	
14,300.0	9,000.0	15,146.1	9,800.0	54.6	48.5	143.68	-5,090.3	-1,032.2	998.6	913.6	85.00	11.748	
14,400.0	9,000.0	15,246.1	9,800.0	55.5	49.3	143.68	-5,190.3	-1,033.1	998.6	912.2	86.37	11.562	
14,500.0	9,000.0	15,346.1	9,800.0	56.4	50.1	143.68	-5,290.2	-1,034.0	998.6	910.9	87.74	11.382	
14,600.0	9,000.0	15,446.1	9,800.0	57.4	50.9	143.68	-5,390.2	-1,034.9	998.6	909.5	89.11	11.207	
14,700.0	9,000.0	15,546.1	9,800.0	58.3	51.7	143.68	-5,490.2	-1,035.7	998.6	908.1	90.48	11.036	
14,800.0	9,000.0	15,646.1	9,800.0	59.2	52.6	143.68	-5,590.2	-1,036.6	998.6	906.7	91.86	10.871	
14,900.0	9,000.0	15,746.1	9,800.0	60.1	53.4	143.68	-5,690.2	-1,037.5	998.6	905.4	93.24	10.710	
15,000.0	9,000.0	15,846.1	9,800.0	61.0	54.2	143.68	-5,790.2	-1,038.4	998.6	904.0	94.63	10.553	
15,100.0	9,000.0	15,946.1	9,800.0	62.0	55.0	143.68	-5,890.2	-1,039.3	998.6	902.6	96.02	10.400	
15,200.0	9,000.0	16,046.1	9,800.0	62.9	55.8	143.68	-5,990.2	-1,040.1	998.6	901.2	97.41	10.252	
15,300.0	9,000.0	16,146.1	9,800.0	63.8	56.6	143.68	-6,090.2	-1,041.0	998.6	899.8	98.80	10.107	
15,400.0	9,000.0	16,246.1	9,800.0	64.7	57.5	143.68	-6,190.2	-1,041.9	998.6	898.4	100.19	9.967	
15,500.0	9,000.0	16,346.1	9,800.0	65.7	58.3	143.68	-6,290.2	-1,042.8	998.6	897.0	101.59	9.829	
15,600.0	9,000.0	16,446.1	9,800.0	66.6	59.1	143.68	-6,390.2	-1,043.7	998.6	895.6	102.99	9.696	
15,700.0	9,000.0	16,546.1	9,800.0	67.5	59.9	143.68	-6,490.2	-1,044.6	998.6	894.2	104.39	9.566	
15,800.0	9,000.0	16,646.1	9,800.0	68.5	60.7	143.68	-6,590.2	-1,045.4	998.6	892.8	105.80	9.439	
15,900.0	9,000.0	16,746.1	9,800.0	69.4	61.6	143.68	-6,690.2	-1,046.3	998.6	891.4	107.20	9.315	
16,000.0	9,000.0	16,846.1	9,800.0	70.3	62.4	143.68	-6,790.2	-1,047.2	998.6	890.0	108.61	9.194	
16,100.0	9,000.0	16,946.1	9,800.0	71.3	63.2	143.68	-6,890.2	-1,048.1	998.6	888.6	110.02	9.076	
16,200.0	9,000.0	17,046.1	9,800.0	72.2	64.1	143.68	-6,990.2	-1,049.0	998.6	887.1	111.43	8.961	
16,300.0	9,000.0	17,146.1	9,800.0	73.1	64.9	143.68	-7,090.2	-1,049.8	998.6	885.7	112.84	8.849	
16,400.0	9,000.0	17,246.1	9,800.0	74.1	65.7	143.68	-7,190.2	-1,050.7	998.6	884.3	114.26	8.740	
16,500.0	9,000.0	17,346.1	9,800.0	75.0	66.5	143.68	-7,290.2	-1,051.6	998.6	882.9	115.67	8.633	
16,600.0	9,000.0	17,446.1	9,800.0	75.9	67.4	143.68	-7,390.2	-1,052.5	998.6	881.5	117.09	8.528	
16,700.0	9,000.0	17,546.1	9,800.0	76.9	68.2	143.68	-7,490.2	-1,053.4	998.6	880.0	118.51	8.426	
16,800.0	9,000.0	17,646.1	9,800.0	77.8	69.0	143.68	-7,590.2	-1,054.3	998.6	878.6	119.93	8.326	
16,900.0	9,000.0	17,746.1	9,800.0	78.8	69.9	143.68	-7,690.2	-1,055.1	998.6	877.2	121.35	8.228	
17,000.0	9,000.0	17,846.1	9,800.0	79.7	70.7	143.68	-7,790.1	-1,056.0	998.6	875.8	122.78	8.133	
17,100.0	9,000.0	17,946.1	9,800.0	80.6	71.5	143.68	-7,890.1	-1,056.9	998.6	874.3	124.20	8.040	
17,200.0	9,000.0	18,046.1	9,800.0	81.6	72.4	143.68	-7,990.1	-1,057.8	998.5	872.9	125.63	7.948	
17,300.0	9,000.0	18,146.1	9,800.0	82.5	73.2	143.68	-8,090.1	-1,058.7	998.5	871.5	127.05	7.859	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 803H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		Separation Factor	Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
17,400.0	9,000.0	18,246.1	9,800.0	83.5	74.0	143.68	-8,190.1	-1,059.5	998.5	870.1	128.48	7.772	
17,500.0	9,000.0	18,346.1	9,800.0	84.4	74.9	143.69	-8,290.1	-1,060.4	998.5	868.6	129.91	7.686	
17,600.0	9,000.0	18,446.1	9,800.0	85.4	75.7	143.69	-8,390.1	-1,061.3	998.5	867.2	131.34	7.603	
17,700.0	9,000.0	18,546.1	9,800.0	86.3	76.6	143.69	-8,490.1	-1,062.2	998.5	865.8	132.77	7.521	
17,800.0	9,000.0	18,646.1	9,800.0	87.3	77.4	143.69	-8,590.1	-1,063.1	998.5	864.3	134.20	7.440	
17,900.0	9,000.0	18,746.1	9,800.0	88.2	78.2	143.69	-8,690.1	-1,063.9	998.5	862.9	135.64	7.362	
18,000.0	9,000.0	18,846.1	9,800.0	89.1	79.1	143.69	-8,790.1	-1,064.8	998.5	861.5	137.07	7.285	
18,100.0	9,000.0	18,946.1	9,800.0	90.1	79.9	143.69	-8,890.1	-1,065.7	998.5	860.0	138.51	7.209	
18,200.0	9,000.0	19,046.1	9,800.0	91.0	80.7	143.69	-8,990.1	-1,066.6	998.5	858.6	139.94	7.135	
18,300.0	9,000.0	19,146.1	9,800.0	92.0	81.6	143.69	-9,090.1	-1,067.5	998.5	857.1	141.38	7.063	
18,400.0	9,000.0	19,246.1	9,800.0	92.9	82.4	143.69	-9,190.1	-1,068.4	998.5	855.7	142.82	6.992	
18,500.0	9,000.0	19,346.1	9,800.0	93.9	83.3	143.69	-9,290.1	-1,069.2	998.5	854.3	144.26	6.922	
18,600.0	9,000.0	19,446.1	9,800.0	94.8	84.1	143.69	-9,390.1	-1,070.1	998.5	852.8	145.69	6.853	
18,700.0	9,000.0	19,546.1	9,800.0	95.8	85.0	143.69	-9,490.1	-1,071.0	998.5	851.4	147.13	6.786	
18,800.0	9,000.0	19,646.1	9,800.0	96.7	85.8	143.69	-9,590.1	-1,071.9	998.5	849.9	148.57	6.721	
18,900.0	9,000.0	19,746.1	9,800.0	97.7	86.6	143.69	-9,690.1	-1,072.8	998.5	848.5	150.02	6.656	
19,000.0	9,000.0	19,846.1	9,800.0	98.6	87.5	143.69	-9,790.1	-1,073.6	998.5	847.0	151.46	6.593	
19,100.0	9,000.0	19,946.1	9,800.0	99.6	88.3	143.69	-9,890.1	-1,074.5	998.5	845.6	152.90	6.530	
19,200.0	9,000.0	20,046.1	9,800.0	100.5	89.2	143.69	-9,990.1	-1,075.4	998.5	844.2	154.34	6.469	
19,300.0	9,000.0	20,146.1	9,800.0	101.5	90.0	143.69	-10,090.1	-1,076.3	998.5	842.7	155.79	6.409	
19,400.0	9,000.0	20,246.1	9,800.0	102.4	90.9	143.69	-10,190.1	-1,077.2	998.5	841.3	157.23	6.350	
19,500.0	9,000.0	20,346.1	9,800.0	103.4	91.7	143.69	-10,290.1	-1,078.1	998.5	839.8	158.68	6.293	
19,600.0	9,000.0	20,446.1	9,800.0	104.3	92.5	143.69	-10,390.0	-1,078.9	998.5	838.4	160.12	6.236	
19,700.0	9,000.0	20,546.1	9,800.0	105.3	93.4	143.69	-10,490.0	-1,079.8	998.5	836.9	161.57	6.180	
19,800.0	9,000.0	20,646.1	9,800.0	106.2	94.2	143.69	-10,590.0	-1,080.7	998.5	835.5	163.02	6.125	
19,900.0	9,000.0	20,746.1	9,800.0	107.2	95.1	143.69	-10,690.0	-1,081.6	998.5	834.0	164.46	6.071	
20,000.0	9,000.0	20,846.1	9,800.0	108.1	95.9	143.69	-10,790.0	-1,082.5	998.5	832.6	165.91	6.018	
20,100.0	9,000.0	20,946.1	9,800.0	109.1	96.8	143.69	-10,890.0	-1,083.3	998.5	831.1	167.36	5.966	
20,200.0	9,000.0	21,046.1	9,800.0	110.0	97.6	143.69	-10,990.0	-1,084.2	998.5	829.7	168.81	5.915	
20,300.0	9,000.0	21,146.1	9,800.0	111.0	98.5	143.69	-11,090.0	-1,085.1	998.5	828.2	170.26	5.864	
20,400.0	9,000.0	21,246.1	9,800.0	111.9	99.3	143.69	-11,190.0	-1,086.0	998.5	826.8	171.71	5.815	
20,500.0	9,000.0	21,346.1	9,800.0	112.9	100.2	143.69	-11,290.0	-1,086.9	998.5	825.3	173.16	5.766	
20,600.0	9,000.0	21,446.1	9,800.0	113.8	101.0	143.69	-11,390.0	-1,087.8	998.5	823.9	174.61	5.718	
20,700.0	9,000.0	21,546.1	9,800.0	114.8	101.9	143.69	-11,490.0	-1,088.6	998.5	822.4	176.06	5.671	
20,800.0	9,000.0	21,646.1	9,800.0	115.7	102.7	143.69	-11,590.0	-1,089.5	998.5	820.9	177.51	5.625	
20,900.0	9,000.0	21,746.1	9,800.0	116.7	103.5	143.69	-11,690.0	-1,090.4	998.5	819.5	178.96	5.579	
21,000.0	9,000.0	21,846.1	9,800.0	117.7	104.4	143.69	-11,790.0	-1,091.3	998.5	818.0	180.42	5.534	
21,100.0	9,000.0	21,946.1	9,800.0	118.6	105.2	143.69	-11,890.0	-1,092.2	998.5	816.6	181.87	5.490	
21,200.0	9,000.0	22,046.1	9,800.0	119.6	106.1	143.69	-11,990.0	-1,093.0	998.4	815.1	183.32	5.446	
21,300.0	9,000.0	22,146.1	9,800.0	120.5	106.9	143.69	-12,090.0	-1,093.9	998.4	813.7	184.78	5.404	
21,400.0	9,000.0	22,246.1	9,800.0	121.5	107.8	143.69	-12,190.0	-1,094.8	998.4	812.2	186.23	5.361	
21,500.0	9,000.0	22,346.1	9,800.0	122.4	108.6	143.69	-12,290.0	-1,095.7	998.4	810.8	187.68	5.320	
21,600.0	9,000.0	22,446.1	9,800.0	123.4	109.5	143.69	-12,390.0	-1,096.6	998.4	809.3	189.14	5.279	
21,700.0	9,000.0	22,546.1	9,800.0	124.3	110.3	143.69	-12,490.0	-1,097.5	998.4	807.8	190.59	5.239	
21,800.0	9,000.0	22,646.1	9,800.0	125.3	111.2	143.69	-12,590.0	-1,098.3	998.4	806.4	192.05	5.199	
21,900.0	9,000.0	22,746.1	9,800.0	126.2	112.0	143.69	-12,690.0	-1,099.2	998.4	804.9	193.50	5.160	
22,000.0	9,000.0	22,846.1	9,800.0	127.2	112.9	143.69	-12,790.0	-1,100.1	998.4	803.5	194.96	5.121	
22,100.0	9,000.0	22,946.1	9,800.0	128.2	113.7	143.69	-12,890.0	-1,101.0	998.4	802.0	196.42	5.083	
22,200.0	9,000.0	23,046.1	9,800.0	129.1	114.6	143.69	-12,989.9	-1,101.9	998.4	800.6	197.87	5.046	
22,300.0	9,000.0	23,146.1	9,800.0	130.1	115.4	143.69	-13,089.9	-1,102.7	998.4	799.1	199.33	5.009	
22,400.0	9,000.0	23,246.1	9,800.0	131.0	116.3	143.69	-13,189.9	-1,103.6	998.4	797.6	200.79	4.973	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Offset Design: FLAMING SNAIL FED COM PROJECT - FLAMING SNAIL FEDERAL COM 803H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1+SAG+FDIR												Offset Well Error:	0.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
22,500.0	9,000.0	23,346.1	9,800.0	132.0	117.1	143.69	-13,289.9	-1,104.5	998.4	796.2	202.24	4.937	
22,600.0	9,000.0	23,446.1	9,800.0	132.9	118.0	143.70	-13,389.9	-1,105.4	998.4	794.7	203.70	4.901	
22,700.0	9,000.0	23,546.1	9,800.0	133.9	118.8	143.70	-13,489.9	-1,106.3	998.4	793.3	205.16	4.867	
22,800.0	9,000.0	23,646.1	9,800.0	134.8	119.7	143.70	-13,589.9	-1,107.2	998.4	791.8	206.62	4.832	
22,900.0	9,000.0	23,746.1	9,800.0	135.8	120.5	143.70	-13,689.9	-1,108.0	998.4	790.3	208.08	4.798	
23,000.0	9,000.0	23,846.1	9,800.0	136.8	121.4	143.70	-13,789.9	-1,108.9	998.4	788.9	209.54	4.765	
23,100.0	9,000.0	23,946.1	9,800.0	137.7	122.2	143.70	-13,889.9	-1,109.8	998.4	787.4	210.99	4.732	
23,200.0	9,000.0	24,046.1	9,800.0	138.7	123.1	143.70	-13,989.9	-1,110.7	998.4	785.9	212.45	4.699	
23,300.0	9,000.0	24,146.1	9,800.0	139.6	123.9	143.70	-14,089.9	-1,111.6	998.4	784.5	213.91	4.667	
23,400.0	9,000.0	24,246.1	9,800.0	140.6	124.8	143.70	-14,189.9	-1,112.4	998.4	783.0	215.37	4.636	
23,500.0	9,000.0	24,346.1	9,800.0	141.5	125.6	143.70	-14,289.9	-1,113.3	998.4	781.6	216.83	4.604	
23,600.0	9,000.0	24,446.1	9,800.0	142.5	126.5	143.70	-14,389.9	-1,114.2	998.4	780.1	218.29	4.574	
23,700.0	9,000.0	24,546.1	9,800.0	143.5	127.3	143.70	-14,489.9	-1,115.1	998.4	778.6	219.75	4.543	
23,800.0	9,000.0	24,646.1	9,800.0	144.4	128.2	143.70	-14,589.9	-1,116.0	998.4	777.2	221.21	4.513	
23,900.0	9,000.0	24,746.1	9,800.0	145.4	129.0	143.70	-14,689.9	-1,116.9	998.4	775.7	222.67	4.484	
24,000.0	9,000.0	24,846.1	9,800.0	146.3	129.9	143.70	-14,789.9	-1,117.7	998.4	774.2	224.14	4.454	
24,100.0	9,000.0	24,946.1	9,800.0	147.3	130.7	143.70	-14,889.9	-1,118.6	998.4	772.8	225.60	4.425	
24,200.0	9,000.0	25,046.1	9,800.0	148.2	131.6	143.70	-14,989.9	-1,119.5	998.4	771.3	227.06	4.397	
24,300.0	9,000.0	25,146.1	9,800.0	149.2	132.5	143.70	-15,089.9	-1,120.4	998.4	769.9	228.52	4.369	
24,400.0	9,000.0	25,246.1	9,800.0	150.2	133.3	143.70	-15,189.9	-1,121.3	998.4	768.4	229.98	4.341	
24,403.6	9,000.0	25,249.7	9,800.0	150.2	133.3	143.70	-15,193.5	-1,121.3	998.4	768.3	230.03	4.340	
24,424.2	9,000.0	25,250.5	9,800.0	150.4	133.3	143.70	-15,194.3	-1,121.3	998.6	768.4	230.21	4.338 SF	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWPO	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: 100-r.5 SDI_KPR_WL_NS-CT												Offset Well Error:	3.0 usft
Reference		Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Distance		No-Go Distance (usft)	Separation Factor	Warning
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)		+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)			
9,800.0	9,000.0	8,943.4	8,942.0	21.0	7.5	89.19	-1,375.3	-1,024.6	998.5	975.0	23.48	42.525	
9,900.0	9,000.0	8,942.7	8,941.3	21.3	7.5	89.13	-1,375.3	-1,024.5	921.9	898.1	23.84	38.667	
10,000.0	9,000.0	8,942.0	8,940.6	21.7	7.5	89.07	-1,375.3	-1,024.5	850.2	825.8	24.45	34.776	
10,100.0	9,000.0	8,941.3	8,940.0	22.0	7.5	89.01	-1,375.3	-1,024.5	784.8	759.4	25.38	30.926	
10,200.0	9,000.0	8,940.7	8,939.3	22.4	7.5	88.94	-1,375.3	-1,024.5	727.2	700.5	26.68	27.253	
10,300.0	9,000.0	8,940.0	8,938.6	22.9	7.5	88.88	-1,375.3	-1,024.5	679.5	651.2	28.39	23.940	
10,400.0	9,000.0	8,939.3	8,937.9	23.4	7.5	88.82	-1,375.3	-1,024.5	644.0	613.6	30.40	21.186	
10,500.0	9,000.0	8,938.6	8,937.2	23.9	7.5	88.75	-1,375.3	-1,024.5	622.7	590.1	32.52	19.144	
10,585.2	9,000.0	8,938.0	8,936.7	24.3	7.5	88.70	-1,375.4	-1,024.4	616.8	582.6	34.22	18.022 CC	
10,600.0	9,000.0	8,937.9	8,936.6	24.4	7.5	88.69	-1,375.4	-1,024.4	617.0	582.5	34.49	17.887 ES	
10,700.0	9,000.0	8,937.3	8,935.9	25.0	7.5	88.63	-1,375.4	-1,024.4	627.4	591.3	36.05	17.401 SF	
10,800.0	9,000.0	8,936.6	8,935.2	25.6	7.5	88.56	-1,375.4	-1,024.4	653.1	616.0	37.08	17.613	
10,900.0	9,000.0	8,935.9	8,934.5	26.3	7.5	88.50	-1,375.4	-1,024.4	692.5	654.9	37.60	18.418	
11,000.0	9,000.0	8,935.2	8,933.8	26.9	7.5	88.43	-1,375.4	-1,024.4	743.3	705.6	37.71	19.711	
11,100.0	9,000.0	8,934.5	8,933.1	27.6	7.5	88.37	-1,375.4	-1,024.4	803.4	765.8	37.55	21.394	
11,200.0	9,000.0	8,933.8	8,932.4	28.3	7.5	88.30	-1,375.4	-1,024.3	870.9	833.6	37.24	23.387	
11,300.0	9,000.0	8,933.1	8,931.7	29.0	7.5	88.24	-1,375.4	-1,024.3	944.1	907.3	36.85	25.623	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3161.3usft

Offset Depths are relative to Offset Datum

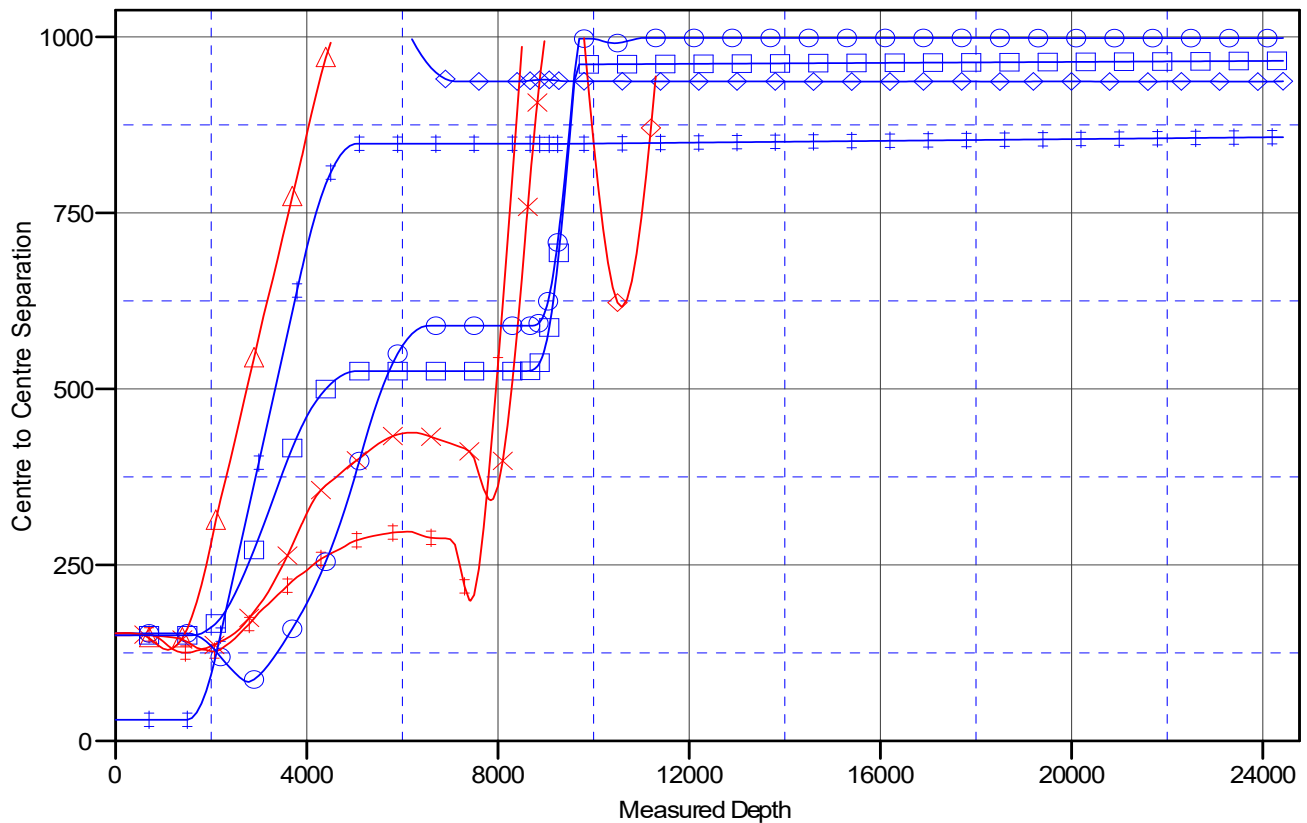
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM 704H

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

Grid Convergence at Surface is: 0.08°

Ladder Plot



LEGEND

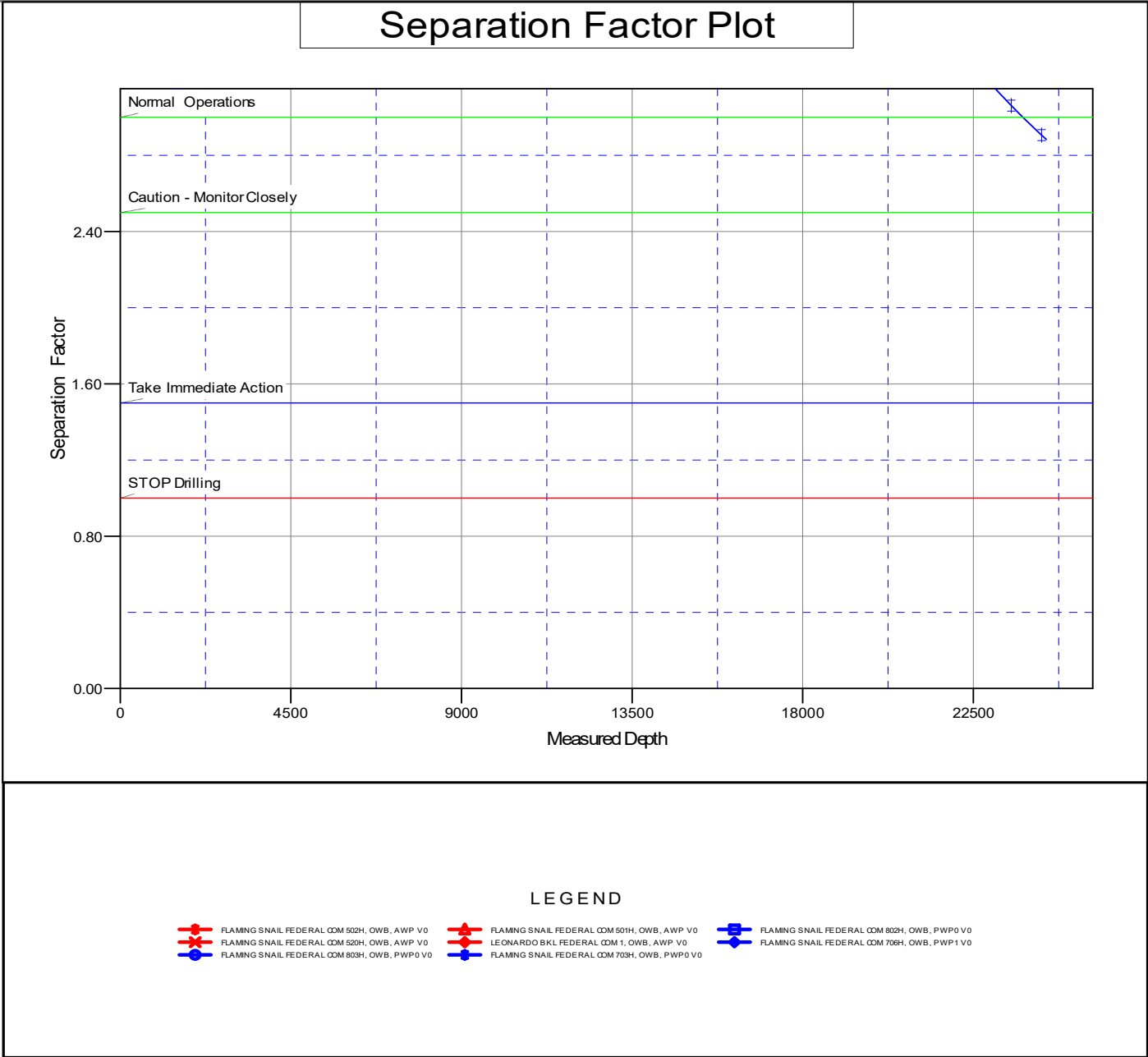
FLAMING SNAIL FEDERAL COM 502H, OWB, AWP V0	LEONARDO BKL FEDERAL COM 1, OWB, AWP V0	FLAMING SNAIL FEDERAL COM 802H, OWB, PWP0 V0
FLAMING SNAIL FEDERAL COM 501H, OWB, AWP V0	FLAMING SNAIL FEDERAL COM 703H, OWB, PWP0 V0	FLAMING SNAIL FEDERAL COM 706H, OWB, PWP1 V0

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 704H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3161.3usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3161.3usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 704H	Survey Calculation Method:	Minimum Curvature
Well Error:	0.0 usft	Output errors are at	2.00 sigma
Reference Wellbore	OWB	Database:	EDT 17 Permian Prod
Reference Design:	PWP0	Offset TVD Reference:	Offset Datum

Reference Depths are relative to KB @ 3161.3usft	Coordinates are relative to: FLAMING SNAIL FEDERAL COM 704H
Offset Depths are relative to Offset Datum	Coordinate System is US State Plane 1927 (Exact solution), New Mexico East 30
Central Meridian is 104° 20' 0.000 W	Grid Convergence at Surface is: 0.08°



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Oil Conservation Division
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CONDITIONS

Action 423481

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 423481
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	Work was performed without OCD approval.	10/6/2025