

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 / 505 FNL / 1005 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.106968 / LONG: -104.189714 (TVD: 0 feet, MD: 0 feet)

PPP: NENE / 330 FNL / 1210 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.10744 / LONG: -104.190385 (TVD: 9723 feet, MD: 9888 feet)

PPP: SESE / 1319 FSL / 1210 FEL / TWSP: 25S / RANGE: 27E / SECTION: 28 / LAT: 32.097445 / LONG: -104.190497 (TVD: 9787 feet, MD: 13749 feet)

PPP: SENE / 1321 FNL / 1210 FEL / TWSP: 25S / RANGE: 27E / SECTION: 33 / LAT: 32.090106 / LONG: -104.19058 (TVD: 9789 feet, MD: 16389 feet)

PPP: NENE / 1 FNL / 1210 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.079003 / LONG: -104.190705 (TVD: 9791 feet, MD: 20349 feet)

BHL: SESE / 200 FSL / 1210 FEL / TWSP: 26S / RANGE: 27E / SECTION: 4 / LAT: 32.064712 / LONG: -104.190865 (TVD: 9794 feet, MD: 25408 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	Annular	1 Stage		1 Stage	Min		1 Stage	Drilling	Calc	Req'd			Min Dist		
Size	Volume	Cmt Sx		CuFt Cmt	Cu Ft		% Excess	Mud Wt	MASP	BOPE			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 % :									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		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 802H
SURFACE HOLE FOOTAGE:	505'N & 1005'E
BOTTOM HOLE FOOTAGE	200'S & 867'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.

ConocoPhillips Company - Flaming Snail Federal Com 802H

1. Geologic Formations

TVD of target	9,800' EOL	Pilot hole depth	NA
MD at TD:	25,222'	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	527	Salt	
Base of Salt	1938	Salt	
Lamar	2169	Salt Water	
Bell Canyon	2218	Salt Water	
Cherry Canyon	3022	Oil/Gas	
Brushy Canyon	4127	Oil/Gas	
Bone Spring	5711	Oil/Gas	
1st Bone Spring Sand	6649	Oil/Gas	
2nd Bone Spring Sand	7156	Oil/Gas	
3rd Bone Spring Sand	8480	Oil/Gas	
Wolfcamp	8811	Oil/Gas	
Wolfcamp C	9646	Target	
0		Not Penetrated	

2. Casing Program

Hole Size	Casing Interval		Csg. Size	Weight (lbs)	Grade	Conn.	SF Collapse	SF Burst	SF Body	SF Joint
	From	To								
14.75"	0	380	10.75"	45.5	J55	BTC	12.02	15.44	41.35	41.35
9.875"	0	9600	8.625"	32	P110-ICY	W441	4.44	1.45	3.72	3.02
7.875"	0	9400	5.5"	23	P110-CY	BTC	3.31	2.36	3.37	3.37
7.875"	9400	25,222	5.5"	23	P110-CY	W441	3.31	2.36	3.23	2.94
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	2070	9.625"	40	L80-IC	BTC	3.60	1.41	11.06	11.44
8.75"	1870	9600	7.625"	29.7	P110-ICY	W513	8.18	1.80	3.75	2.25
6.75"	0	9400	5.5"	23	P110-CY	BTC	3.31	2.36	3.37	3.37
6.75"	9400	25,222	5.5"	23	P110-CY	W441	3.31	2.36	3.23	2.94
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

1

ConocoPhillips Company - Flaming Snail Federal Com 802H

	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 802H

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	340	10.3	3.3	22	24	Halliburton tuned light
	250	14.8	1.35	6.6	8	Tail: Class H
Prod	590	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	2460	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	9,100'	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)	300	10.5	3.3	22	24	Tuned light
	90	14.8	1.35	6.6	8	Tail: Class H
Prod	420	12.5	1.48	10.7	72	Lead: 50:50:10 H Blend
	1190	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	1,870'	20%
Production	9,350'	20% OH in Lateral (KOP to EOL)

ConocoPhillips Company - Flaming Snail Federal Com 802H**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 802H

5. Mud Program

Depth		Type	Weight (ppg)	Viscosity	Water Loss
From	To				
0	Surf. Shoe	FW Gel	8.4 - 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	10.6 - 14	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	8.4 - 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	10.6 - 14	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 802H**7. Drilling Conditions**

Condition	Specify what type and where?
BH Pressure at deepest TVD	7135 psi at 9800' TVD
Abnormal Temperature	NO 155 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 30-015-54195	Pool Code 98220	Pool Name Purple Sage; Wolfcamp (Gas)
Property Code 333880	Property Name FLAMING SNAIL FEDERAL COM	Well Number 802H
OGRID No. 229137	Operator Name COG OPERATING LLC	Ground Level Elevation 3124.7'
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		505 FNL	1005 FEL	32.106968°N	104.189714°W	EDDY

Bottom Hole Location

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	4	26-S	27-E		200 FSL	867 FEL	32.064677°N	104.189758°W	EDDY

Dedicated Acres 1950	Infill or Defining Well Infill	Defining Well API 30-015-54649	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		505 FNL	1005 FEL	32.106968°N	104.189714°W	EDDY

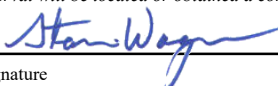
First Take Point (FTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
A	28	25-S	27-E		330 FNL	867 FEL	32.107455°N	104.189277°W	EDDY

Last Take Point (LTP)

UL	Section	Township	Range	Lot	Ft. from N/S	Ft. from E/W	Latitude	Longitude	County
P	4	26-S	27-E		330 FSL	867 FEL	32.065035°N	104.189754°W	EDDY

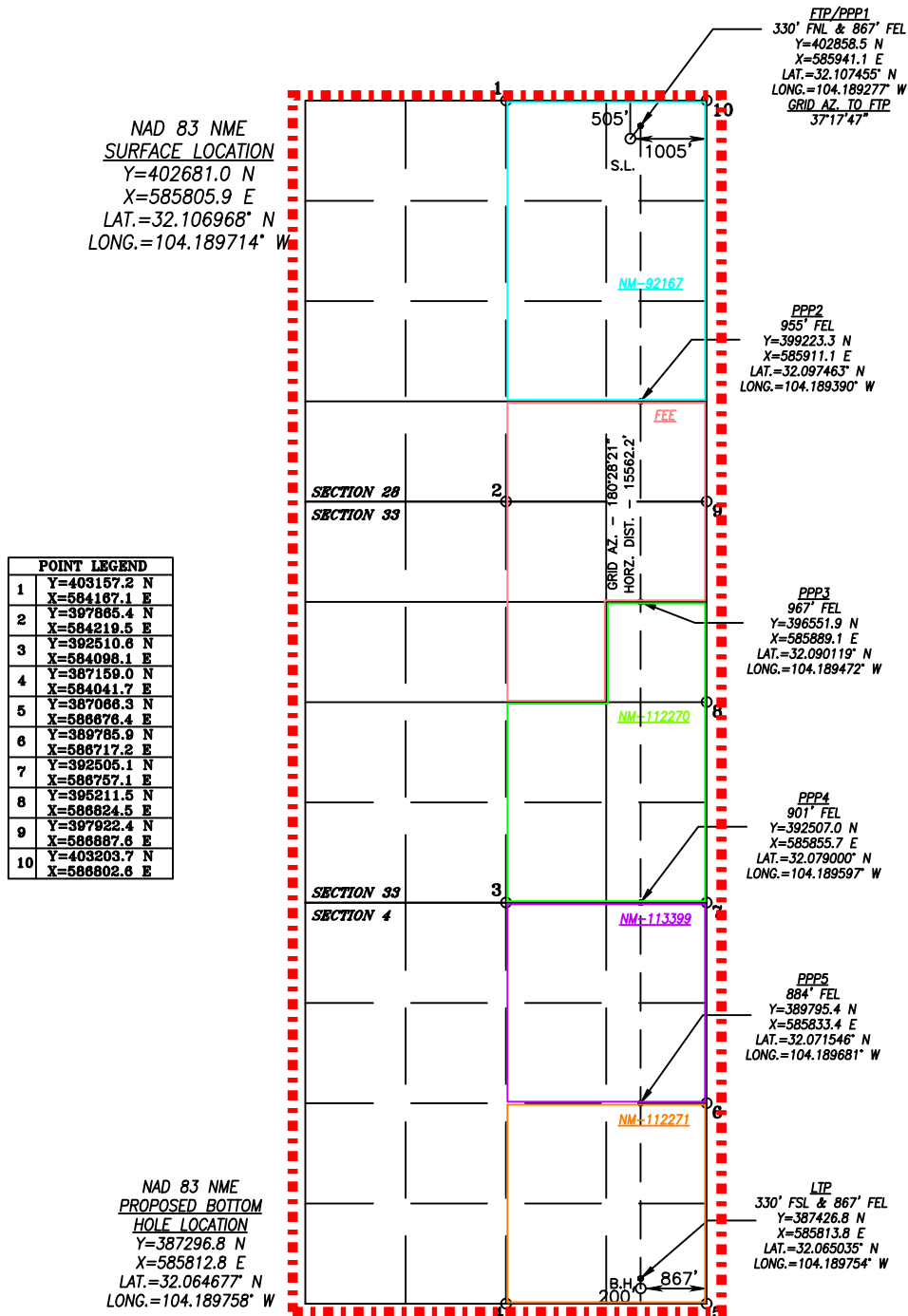
Unitized Area or Area of Uniform Interest	Spacing Unit Type ☒ Horizontal ☐ Vertical	Ground Floor Elevation:
---	--	-------------------------

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 Chad Harcrow 11/1/24	
Printed Name Stan Wagner		Certificate Number 17777	Date of Survey MAY 3, 2022
Email Address		W.O.#24-1034	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 802H

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 802H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3156.7usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 802H	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 802H					
Well Position	+N/-S	0.0 usft	Northing:	402,623.70 usft	Latitude:	32° 6' 24.648 N
	+E/-W	0.0 usft	Easting:	544,622.40 usft	Longitude:	104° 11' 21.193 W
Position Uncertainty		0.0 usft	Wellhead Elevation:	usft	Ground Level:	3,124.7 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	47,317.60332620

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	179.98	

Plan Survey Tool Program	Date	11/11/2024			
Depth From (usft)	Depth To (usft)	Survey (Wellbore)	Tool Name	Remarks	
1	0.0	9,340.6 PWP0 (OWB)	r.5 MWD+IFR1		
			OWSG MWD + IFR1 rev.5		
2	9,340.6	25,222.5 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	
1,868.2	7.36	30.73	1,867.2	20.3	12.1	2.00	2.00	0.00	30.73	
3,379.1	7.36	30.73	3,365.6	186.8	111.0	0.00	0.00	0.00	0.00	
4,115.5	0.00	0.00	4,100.0	227.4	135.2	1.00	-1.00	0.00	180.00	
9,338.0	0.00	0.00	9,322.5	227.4	135.2	0.00	0.00	0.00	0.00	
10,088.0	90.00	180.47	9,800.0	-250.0	131.3	12.00	12.00	-23.94	180.47	
25,222.5	90.00	180.47	9,800.0	-15,384.0	6.6	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 802H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3156.7usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 802H	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	30.73	1,600.0	1.5	0.9	-1.5	2.00	2.00	0.00
1,700.0	4.00	30.73	1,699.8	6.0	3.6	-6.0	2.00	2.00	0.00
1,800.0	6.00	30.73	1,799.5	13.5	8.0	-13.5	2.00	2.00	0.00
1,868.2	7.36	30.73	1,867.2	20.3	12.1	-20.3	2.00	2.00	0.00
Start 1510.8 hold at 1868.2 MD									
1,900.0	7.36	30.73	1,898.7	23.8	14.2	-23.8	0.00	0.00	0.00
2,000.0	7.36	30.73	1,997.9	34.8	20.7	-34.8	0.00	0.00	0.00
2,100.0	7.36	30.73	2,097.1	45.8	27.3	-45.8	0.00	0.00	0.00
2,200.0	7.36	30.73	2,196.3	56.9	33.8	-56.9	0.00	0.00	0.00
2,300.0	7.36	30.73	2,295.4	67.9	40.4	-67.9	0.00	0.00	0.00
2,400.0	7.36	30.73	2,394.6	78.9	46.9	-78.9	0.00	0.00	0.00
2,500.0	7.36	30.73	2,493.8	89.9	53.5	-89.9	0.00	0.00	0.00
2,600.0	7.36	30.73	2,593.0	100.9	60.0	-100.9	0.00	0.00	0.00
2,700.0	7.36	30.73	2,692.1	112.0	66.6	-111.9	0.00	0.00	0.00
2,800.0	7.36	30.73	2,791.3	123.0	73.1	-122.9	0.00	0.00	0.00
2,900.0	7.36	30.73	2,890.5	134.0	79.7	-134.0	0.00	0.00	0.00
3,000.0	7.36	30.73	2,989.7	145.0	86.2	-145.0	0.00	0.00	0.00
3,100.0	7.36	30.73	3,088.8	156.0	92.8	-156.0	0.00	0.00	0.00
3,200.0	7.36	30.73	3,188.0	167.0	99.3	-167.0	0.00	0.00	0.00
3,300.0	7.36	30.73	3,287.2	178.1	105.9	-178.0	0.00	0.00	0.00
3,379.1	7.36	30.73	3,365.6	186.8	111.0	-186.7	0.00	0.00	0.00
Start Drop -1.00									
3,400.0	7.16	30.73	3,386.4	189.0	112.4	-189.0	1.00	-1.00	0.00
3,500.0	6.16	30.73	3,485.7	199.0	118.3	-199.0	1.00	-1.00	0.00
3,600.0	5.16	30.73	3,585.2	207.5	123.4	-207.4	1.00	-1.00	0.00
3,700.0	4.16	30.73	3,684.9	214.5	127.5	-214.4	1.00	-1.00	0.00
3,800.0	3.16	30.73	3,784.7	219.9	130.8	-219.9	1.00	-1.00	0.00
3,900.0	2.16	30.73	3,884.5	223.9	133.1	-223.9	1.00	-1.00	0.00
4,000.0	1.16	30.73	3,984.5	226.4	134.6	-226.3	1.00	-1.00	0.00
4,100.0	0.16	30.73	4,084.5	227.4	135.2	-227.3	1.00	-1.00	0.00
4,115.5	0.00	0.00	4,100.0	227.4	135.2	-227.3	1.00	-1.00	0.00
Start 5222.5 hold at 4115.5 MD									
4,200.0	0.00	0.00	4,184.5	227.4	135.2	-227.3	0.00	0.00	0.00
4,300.0	0.00	0.00	4,284.5	227.4	135.2	-227.3	0.00	0.00	0.00
4,400.0	0.00	0.00	4,384.5	227.4	135.2	-227.3	0.00	0.00	0.00
4,500.0	0.00	0.00	4,484.5	227.4	135.2	-227.3	0.00	0.00	0.00

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3156.7usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 802H	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)
4,600.0	0.00	0.00	4,584.5	227.4	135.2	-227.3	0.00	0.00	0.00
4,700.0	0.00	0.00	4,684.5	227.4	135.2	-227.3	0.00	0.00	0.00
4,800.0	0.00	0.00	4,784.5	227.4	135.2	-227.3	0.00	0.00	0.00
4,900.0	0.00	0.00	4,884.5	227.4	135.2	-227.3	0.00	0.00	0.00
5,000.0	0.00	0.00	4,984.5	227.4	135.2	-227.3	0.00	0.00	0.00
5,100.0	0.00	0.00	5,084.5	227.4	135.2	-227.3	0.00	0.00	0.00
5,200.0	0.00	0.00	5,184.5	227.4	135.2	-227.3	0.00	0.00	0.00
5,300.0	0.00	0.00	5,284.5	227.4	135.2	-227.3	0.00	0.00	0.00
5,400.0	0.00	0.00	5,384.5	227.4	135.2	-227.3	0.00	0.00	0.00
5,500.0	0.00	0.00	5,484.5	227.4	135.2	-227.3	0.00	0.00	0.00
5,600.0	0.00	0.00	5,584.5	227.4	135.2	-227.3	0.00	0.00	0.00
5,700.0	0.00	0.00	5,684.5	227.4	135.2	-227.3	0.00	0.00	0.00
5,800.0	0.00	0.00	5,784.5	227.4	135.2	-227.3	0.00	0.00	0.00
5,900.0	0.00	0.00	5,884.5	227.4	135.2	-227.3	0.00	0.00	0.00
6,000.0	0.00	0.00	5,984.5	227.4	135.2	-227.3	0.00	0.00	0.00
6,100.0	0.00	0.00	6,084.5	227.4	135.2	-227.3	0.00	0.00	0.00
6,200.0	0.00	0.00	6,184.5	227.4	135.2	-227.3	0.00	0.00	0.00
6,300.0	0.00	0.00	6,284.5	227.4	135.2	-227.3	0.00	0.00	0.00
6,400.0	0.00	0.00	6,384.5	227.4	135.2	-227.3	0.00	0.00	0.00
6,500.0	0.00	0.00	6,484.5	227.4	135.2	-227.3	0.00	0.00	0.00
6,600.0	0.00	0.00	6,584.5	227.4	135.2	-227.3	0.00	0.00	0.00
6,700.0	0.00	0.00	6,684.5	227.4	135.2	-227.3	0.00	0.00	0.00
6,800.0	0.00	0.00	6,784.5	227.4	135.2	-227.3	0.00	0.00	0.00
6,900.0	0.00	0.00	6,884.5	227.4	135.2	-227.3	0.00	0.00	0.00
7,000.0	0.00	0.00	6,984.5	227.4	135.2	-227.3	0.00	0.00	0.00
7,100.0	0.00	0.00	7,084.5	227.4	135.2	-227.3	0.00	0.00	0.00
7,200.0	0.00	0.00	7,184.5	227.4	135.2	-227.3	0.00	0.00	0.00
7,300.0	0.00	0.00	7,284.5	227.4	135.2	-227.3	0.00	0.00	0.00
7,400.0	0.00	0.00	7,384.5	227.4	135.2	-227.3	0.00	0.00	0.00
7,500.0	0.00	0.00	7,484.5	227.4	135.2	-227.3	0.00	0.00	0.00
7,600.0	0.00	0.00	7,584.5	227.4	135.2	-227.3	0.00	0.00	0.00
7,700.0	0.00	0.00	7,684.5	227.4	135.2	-227.3	0.00	0.00	0.00
7,800.0	0.00	0.00	7,784.5	227.4	135.2	-227.3	0.00	0.00	0.00
7,900.0	0.00	0.00	7,884.5	227.4	135.2	-227.3	0.00	0.00	0.00
8,000.0	0.00	0.00	7,984.5	227.4	135.2	-227.3	0.00	0.00	0.00
8,100.0	0.00	0.00	8,084.5	227.4	135.2	-227.3	0.00	0.00	0.00
8,200.0	0.00	0.00	8,184.5	227.4	135.2	-227.3	0.00	0.00	0.00
8,300.0	0.00	0.00	8,284.5	227.4	135.2	-227.3	0.00	0.00	0.00
8,400.0	0.00	0.00	8,384.5	227.4	135.2	-227.3	0.00	0.00	0.00
8,500.0	0.00	0.00	8,484.5	227.4	135.2	-227.3	0.00	0.00	0.00
8,600.0	0.00	0.00	8,584.5	227.4	135.2	-227.3	0.00	0.00	0.00
8,700.0	0.00	0.00	8,684.5	227.4	135.2	-227.3	0.00	0.00	0.00
8,800.0	0.00	0.00	8,784.5	227.4	135.2	-227.3	0.00	0.00	0.00
8,900.0	0.00	0.00	8,884.5	227.4	135.2	-227.3	0.00	0.00	0.00
9,000.0	0.00	0.00	8,984.5	227.4	135.2	-227.3	0.00	0.00	0.00
9,100.0	0.00	0.00	9,084.5	227.4	135.2	-227.3	0.00	0.00	0.00
9,200.0	0.00	0.00	9,184.5	227.4	135.2	-227.3	0.00	0.00	0.00
9,300.0	0.00	0.00	9,284.5	227.4	135.2	-227.3	0.00	0.00	0.00
9,338.0	0.00	0.00	9,322.5	227.4	135.2	-227.3	0.00	0.00	0.00
Start DLS 12.00 TFO 180.47									
9,350.0	1.44	180.47	9,334.5	227.2	135.2	-227.2	12.00	12.00	0.00
9,375.0	4.44	180.47	9,359.5	226.0	135.2	-225.9	12.00	12.00	0.00
9,400.0	7.44	180.47	9,384.3	223.4	135.2	-223.3	12.00	12.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3156.7usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 802H	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)
9,425.0	10.44	180.47	9,409.0	219.5	135.1	-219.4	12.00	12.00	0.00
9,450.0	13.44	180.47	9,433.5	214.3	135.1	-214.3	12.00	12.00	0.00
9,475.0	16.44	180.47	9,457.6	207.9	135.0	-207.8	12.00	12.00	0.00
9,500.0	19.44	180.47	9,481.4	200.2	135.0	-200.1	12.00	12.00	0.00
9,525.0	22.44	180.47	9,504.8	191.2	134.9	-191.2	12.00	12.00	0.00
9,550.0	25.44	180.47	9,527.6	181.1	134.8	-181.0	12.00	12.00	0.00
9,575.0	28.44	180.47	9,549.9	169.8	134.7	-169.7	12.00	12.00	0.00
9,600.0	31.44	180.47	9,571.5	157.3	134.6	-157.2	12.00	12.00	0.00
9,625.0	34.44	180.47	9,592.5	143.7	134.5	-143.7	12.00	12.00	0.00
9,650.0	37.44	180.47	9,612.8	129.0	134.4	-129.0	12.00	12.00	0.00
9,675.0	40.44	180.47	9,632.2	113.3	134.3	-113.3	12.00	12.00	0.00
9,700.0	43.44	180.47	9,650.8	96.6	134.1	-96.6	12.00	12.00	0.00
9,725.0	46.44	180.47	9,668.5	79.0	134.0	-78.9	12.00	12.00	0.00
9,750.0	49.44	180.47	9,685.2	60.4	133.8	-60.4	12.00	12.00	0.00
9,775.0	52.44	180.47	9,701.0	41.0	133.7	-40.9	12.00	12.00	0.00
9,800.0	55.44	180.47	9,715.7	20.8	133.5	-20.7	12.00	12.00	0.00
9,825.0	58.44	180.47	9,729.3	-0.2	133.3	0.2	12.00	12.00	0.00
9,850.0	61.44	180.47	9,741.9	-21.8	133.1	21.8	12.00	12.00	0.00
9,875.0	64.44	180.47	9,753.2	-44.0	133.0	44.1	12.00	12.00	0.00
9,900.0	67.44	180.47	9,763.4	-66.9	132.8	66.9	12.00	12.00	0.00
9,925.0	70.44	180.47	9,772.4	-90.2	132.6	90.3	12.00	12.00	0.00
9,950.0	73.44	180.47	9,780.2	-114.0	132.4	114.0	12.00	12.00	0.00
9,975.0	76.44	180.47	9,786.7	-138.1	132.2	138.2	12.00	12.00	0.00
10,000.0	79.44	180.47	9,791.9	-162.5	132.0	162.6	12.00	12.00	0.00
10,025.0	82.44	180.47	9,795.8	-187.2	131.8	187.3	12.00	12.00	0.00
10,050.0	85.44	180.47	9,798.5	-212.1	131.6	212.1	12.00	12.00	0.00
10,075.0	88.44	180.47	9,799.8	-237.0	131.4	237.1	12.00	12.00	0.00
10,088.0	90.00	180.47	9,800.0	-250.0	131.3	250.1	12.00	12.00	0.00
Start 15134.5 hold at 10088.0 MD									
10,100.0	90.00	180.47	9,800.0	-262.0	131.2	262.1	0.00	0.00	0.00
10,200.0	90.00	180.47	9,800.0	-362.0	130.3	362.1	0.00	0.00	0.00
10,300.0	90.00	180.47	9,800.0	-462.0	129.5	462.1	0.00	0.00	0.00
10,400.0	90.00	180.47	9,800.0	-562.0	128.7	562.1	0.00	0.00	0.00
10,500.0	90.00	180.47	9,800.0	-662.0	127.9	662.1	0.00	0.00	0.00
10,600.0	90.00	180.47	9,800.0	-762.0	127.0	762.1	0.00	0.00	0.00
10,700.0	90.00	180.47	9,800.0	-862.0	126.2	862.1	0.00	0.00	0.00
10,800.0	90.00	180.47	9,800.0	-962.0	125.4	962.1	0.00	0.00	0.00
10,900.0	90.00	180.47	9,800.0	-1,062.0	124.6	1,062.1	0.00	0.00	0.00
11,000.0	90.00	180.47	9,800.0	-1,162.0	123.8	1,162.1	0.00	0.00	0.00
11,100.0	90.00	180.47	9,800.0	-1,262.0	122.9	1,262.1	0.00	0.00	0.00
11,200.0	90.00	180.47	9,800.0	-1,362.0	122.1	1,362.1	0.00	0.00	0.00
11,300.0	90.00	180.47	9,800.0	-1,462.0	121.3	1,462.1	0.00	0.00	0.00
11,400.0	90.00	180.47	9,800.0	-1,562.0	120.5	1,562.1	0.00	0.00	0.00
11,500.0	90.00	180.47	9,800.0	-1,662.0	119.6	1,662.0	0.00	0.00	0.00
11,600.0	90.00	180.47	9,800.0	-1,762.0	118.8	1,762.0	0.00	0.00	0.00
11,700.0	90.00	180.47	9,800.0	-1,862.0	118.0	1,862.0	0.00	0.00	0.00
11,800.0	90.00	180.47	9,800.0	-1,962.0	117.2	1,962.0	0.00	0.00	0.00
11,900.0	90.00	180.47	9,800.0	-2,062.0	116.3	2,062.0	0.00	0.00	0.00
12,000.0	90.00	180.47	9,800.0	-2,162.0	115.5	2,162.0	0.00	0.00	0.00
12,100.0	90.00	180.47	9,800.0	-2,262.0	114.7	2,262.0	0.00	0.00	0.00
12,200.0	90.00	180.47	9,800.0	-2,362.0	113.9	2,362.0	0.00	0.00	0.00
12,300.0	90.00	180.47	9,800.0	-2,462.0	113.0	2,462.0	0.00	0.00	0.00
12,400.0	90.00	180.47	9,800.0	-2,562.0	112.2	2,562.0	0.00	0.00	0.00
12,500.0	90.00	180.47	9,800.0	-2,662.0	111.4	2,662.0	0.00	0.00	0.00

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3156.7usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 802H	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)	
12,600.0	90.00	180.47	9,800.0	-2,762.0	110.6	2,762.0	0.00	0.00	0.00	
12,700.0	90.00	180.47	9,800.0	-2,862.0	109.8	2,862.0	0.00	0.00	0.00	
12,800.0	90.00	180.47	9,800.0	-2,962.0	108.9	2,962.0	0.00	0.00	0.00	
12,900.0	90.00	180.47	9,800.0	-3,062.0	108.1	3,062.0	0.00	0.00	0.00	
13,000.0	90.00	180.47	9,800.0	-3,161.9	107.3	3,162.0	0.00	0.00	0.00	
13,100.0	90.00	180.47	9,800.0	-3,261.9	106.5	3,262.0	0.00	0.00	0.00	
13,200.0	90.00	180.47	9,800.0	-3,361.9	105.6	3,362.0	0.00	0.00	0.00	
13,300.0	90.00	180.47	9,800.0	-3,461.9	104.8	3,462.0	0.00	0.00	0.00	
13,400.0	90.00	180.47	9,800.0	-3,561.9	104.0	3,562.0	0.00	0.00	0.00	
13,500.0	90.00	180.47	9,800.0	-3,661.9	103.2	3,662.0	0.00	0.00	0.00	
13,600.0	90.00	180.47	9,800.0	-3,761.9	102.3	3,762.0	0.00	0.00	0.00	
13,700.0	90.00	180.47	9,800.0	-3,861.9	101.5	3,862.0	0.00	0.00	0.00	
13,800.0	90.00	180.47	9,800.0	-3,961.9	100.7	3,962.0	0.00	0.00	0.00	
13,900.0	90.00	180.47	9,800.0	-4,061.9	99.9	4,062.0	0.00	0.00	0.00	
14,000.0	90.00	180.47	9,800.0	-4,161.9	99.0	4,162.0	0.00	0.00	0.00	
14,100.0	90.00	180.47	9,800.0	-4,261.9	98.2	4,262.0	0.00	0.00	0.00	
14,200.0	90.00	180.47	9,800.0	-4,361.9	97.4	4,361.9	0.00	0.00	0.00	
14,300.0	90.00	180.47	9,800.0	-4,461.9	96.6	4,461.9	0.00	0.00	0.00	
14,400.0	90.00	180.47	9,800.0	-4,561.9	95.7	4,561.9	0.00	0.00	0.00	
14,500.0	90.00	180.47	9,800.0	-4,661.9	94.9	4,661.9	0.00	0.00	0.00	
14,600.0	90.00	180.47	9,800.0	-4,761.9	94.1	4,761.9	0.00	0.00	0.00	
14,700.0	90.00	180.47	9,800.0	-4,861.9	93.3	4,861.9	0.00	0.00	0.00	
14,800.0	90.00	180.47	9,800.0	-4,961.9	92.5	4,961.9	0.00	0.00	0.00	
14,900.0	90.00	180.47	9,800.0	-5,061.9	91.6	5,061.9	0.00	0.00	0.00	
15,000.0	90.00	180.47	9,800.0	-5,161.9	90.8	5,161.9	0.00	0.00	0.00	
15,100.0	90.00	180.47	9,800.0	-5,261.9	90.0	5,261.9	0.00	0.00	0.00	
15,200.0	90.00	180.47	9,800.0	-5,361.9	89.2	5,361.9	0.00	0.00	0.00	
15,300.0	90.00	180.47	9,800.0	-5,461.9	88.3	5,461.9	0.00	0.00	0.00	
15,400.0	90.00	180.47	9,800.0	-5,561.9	87.5	5,561.9	0.00	0.00	0.00	
15,500.0	90.00	180.47	9,800.0	-5,661.9	86.7	5,661.9	0.00	0.00	0.00	
15,600.0	90.00	180.47	9,800.0	-5,761.9	85.9	5,761.9	0.00	0.00	0.00	
15,700.0	90.00	180.47	9,800.0	-5,861.9	85.0	5,861.9	0.00	0.00	0.00	
15,800.0	90.00	180.47	9,800.0	-5,961.9	84.2	5,961.9	0.00	0.00	0.00	
15,900.0	90.00	180.47	9,800.0	-6,061.8	83.4	6,061.9	0.00	0.00	0.00	
16,000.0	90.00	180.47	9,800.0	-6,161.8	82.6	6,161.9	0.00	0.00	0.00	
16,100.0	90.00	180.47	9,800.0	-6,261.8	81.7	6,261.9	0.00	0.00	0.00	
16,200.0	90.00	180.47	9,800.0	-6,361.8	80.9	6,361.9	0.00	0.00	0.00	
16,300.0	90.00	180.47	9,800.0	-6,461.8	80.1	6,461.9	0.00	0.00	0.00	
16,400.0	90.00	180.47	9,800.0	-6,561.8	79.3	6,561.9	0.00	0.00	0.00	
16,500.0	90.00	180.47	9,800.0	-6,661.8	78.4	6,661.9	0.00	0.00	0.00	
16,600.0	90.00	180.47	9,800.0	-6,761.8	77.6	6,761.9	0.00	0.00	0.00	
16,700.0	90.00	180.47	9,800.0	-6,861.8	76.8	6,861.9	0.00	0.00	0.00	
16,800.0	90.00	180.47	9,800.0	-6,961.8	76.0	6,961.9	0.00	0.00	0.00	
16,900.0	90.00	180.47	9,800.0	-7,061.8	75.2	7,061.8	0.00	0.00	0.00	
17,000.0	90.00	180.47	9,800.0	-7,161.8	74.3	7,161.8	0.00	0.00	0.00	
17,100.0	90.00	180.47	9,800.0	-7,261.8	73.5	7,261.8	0.00	0.00	0.00	
17,200.0	90.00	180.47	9,800.0	-7,361.8	72.7	7,361.8	0.00	0.00	0.00	
17,300.0	90.00	180.47	9,800.0	-7,461.8	71.9	7,461.8	0.00	0.00	0.00	
17,400.0	90.00	180.47	9,800.0	-7,561.8	71.0	7,561.8	0.00	0.00	0.00	
17,500.0	90.00	180.47	9,800.0	-7,661.8	70.2	7,661.8	0.00	0.00	0.00	
17,600.0	90.00	180.47	9,800.0	-7,761.8	69.4	7,761.8	0.00	0.00	0.00	
17,700.0	90.00	180.47	9,800.0	-7,861.8	68.6	7,861.8	0.00	0.00	0.00	
17,800.0	90.00	180.47	9,800.0	-7,961.8	67.7	7,961.8	0.00	0.00	0.00	
17,900.0	90.00	180.47	9,800.0	-8,061.8	66.9	8,061.8	0.00	0.00	0.00	

ConocoPhillips

Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3156.7usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 802H	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)	
18,000.0	90.00	180.47	9,800.0	-8,161.8	66.1	8,161.8	0.00	0.00	0.00	
18,100.0	90.00	180.47	9,800.0	-8,261.8	65.3	8,261.8	0.00	0.00	0.00	
18,200.0	90.00	180.47	9,800.0	-8,361.8	64.4	8,361.8	0.00	0.00	0.00	
18,300.0	90.00	180.47	9,800.0	-8,461.8	63.6	8,461.8	0.00	0.00	0.00	
18,400.0	90.00	180.47	9,800.0	-8,561.8	62.8	8,561.8	0.00	0.00	0.00	
18,500.0	90.00	180.47	9,800.0	-8,661.8	62.0	8,661.8	0.00	0.00	0.00	
18,600.0	90.00	180.47	9,800.0	-8,761.8	61.2	8,761.8	0.00	0.00	0.00	
18,700.0	90.00	180.47	9,800.0	-8,861.8	60.3	8,861.8	0.00	0.00	0.00	
18,800.0	90.00	180.47	9,800.0	-8,961.8	59.5	8,961.8	0.00	0.00	0.00	
18,900.0	90.00	180.47	9,800.0	-9,061.7	58.7	9,061.8	0.00	0.00	0.00	
19,000.0	90.00	180.47	9,800.0	-9,161.7	57.9	9,161.8	0.00	0.00	0.00	
19,100.0	90.00	180.47	9,800.0	-9,261.7	57.0	9,261.8	0.00	0.00	0.00	
19,200.0	90.00	180.47	9,800.0	-9,361.7	56.2	9,361.8	0.00	0.00	0.00	
19,300.0	90.00	180.47	9,800.0	-9,461.7	55.4	9,461.8	0.00	0.00	0.00	
19,400.0	90.00	180.47	9,800.0	-9,561.7	54.6	9,561.8	0.00	0.00	0.00	
19,500.0	90.00	180.47	9,800.0	-9,661.7	53.7	9,661.7	0.00	0.00	0.00	
19,600.0	90.00	180.47	9,800.0	-9,761.7	52.9	9,761.7	0.00	0.00	0.00	
19,700.0	90.00	180.47	9,800.0	-9,861.7	52.1	9,861.7	0.00	0.00	0.00	
19,800.0	90.00	180.47	9,800.0	-9,961.7	51.3	9,961.7	0.00	0.00	0.00	
19,900.0	90.00	180.47	9,800.0	-10,061.7	50.4	10,061.7	0.00	0.00	0.00	
20,000.0	90.00	180.47	9,800.0	-10,161.7	49.6	10,161.7	0.00	0.00	0.00	
20,100.0	90.00	180.47	9,800.0	-10,261.7	48.8	10,261.7	0.00	0.00	0.00	
20,200.0	90.00	180.47	9,800.0	-10,361.7	48.0	10,361.7	0.00	0.00	0.00	
20,300.0	90.00	180.47	9,800.0	-10,461.7	47.1	10,461.7	0.00	0.00	0.00	
20,400.0	90.00	180.47	9,800.0	-10,561.7	46.3	10,561.7	0.00	0.00	0.00	
20,500.0	90.00	180.47	9,800.0	-10,661.7	45.5	10,661.7	0.00	0.00	0.00	
20,600.0	90.00	180.47	9,800.0	-10,761.7	44.7	10,761.7	0.00	0.00	0.00	
20,700.0	90.00	180.47	9,800.0	-10,861.7	43.9	10,861.7	0.00	0.00	0.00	
20,800.0	90.00	180.47	9,800.0	-10,961.7	43.0	10,961.7	0.00	0.00	0.00	
20,900.0	90.00	180.47	9,800.0	-11,061.7	42.2	11,061.7	0.00	0.00	0.00	
21,000.0	90.00	180.47	9,800.0	-11,161.7	41.4	11,161.7	0.00	0.00	0.00	
21,100.0	90.00	180.47	9,800.0	-11,261.7	40.6	11,261.7	0.00	0.00	0.00	
21,200.0	90.00	180.47	9,800.0	-11,361.7	39.7	11,361.7	0.00	0.00	0.00	
21,300.0	90.00	180.47	9,800.0	-11,461.7	38.9	11,461.7	0.00	0.00	0.00	
21,400.0	90.00	180.47	9,800.0	-11,561.7	38.1	11,561.7	0.00	0.00	0.00	
21,500.0	90.00	180.47	9,800.0	-11,661.7	37.3	11,661.7	0.00	0.00	0.00	
21,600.0	90.00	180.47	9,800.0	-11,761.7	36.4	11,761.7	0.00	0.00	0.00	
21,700.0	90.00	180.47	9,800.0	-11,861.7	35.6	11,861.7	0.00	0.00	0.00	
21,800.0	90.00	180.47	9,800.0	-11,961.6	34.8	11,961.7	0.00	0.00	0.00	
21,900.0	90.00	180.47	9,800.0	-12,061.6	34.0	12,061.7	0.00	0.00	0.00	
22,000.0	90.00	180.47	9,800.0	-12,161.6	33.1	12,161.7	0.00	0.00	0.00	
22,100.0	90.00	180.47	9,800.0	-12,261.6	32.3	12,261.7	0.00	0.00	0.00	
22,200.0	90.00	180.47	9,800.0	-12,361.6	31.5	12,361.6	0.00	0.00	0.00	
22,300.0	90.00	180.47	9,800.0	-12,461.6	30.7	12,461.6	0.00	0.00	0.00	
22,400.0	90.00	180.47	9,800.0	-12,561.6	29.8	12,561.6	0.00	0.00	0.00	
22,500.0	90.00	180.47	9,800.0	-12,661.6	29.0	12,661.6	0.00	0.00	0.00	
22,600.0	90.00	180.47	9,800.0	-12,761.6	28.2	12,761.6	0.00	0.00	0.00	
22,700.0	90.00	180.47	9,800.0	-12,861.6	27.4	12,861.6	0.00	0.00	0.00	
22,800.0	90.00	180.47	9,800.0	-12,961.6	26.6	12,961.6	0.00	0.00	0.00	
22,900.0	90.00	180.47	9,800.0	-13,061.6	25.7	13,061.6	0.00	0.00	0.00	
23,000.0	90.00	180.47	9,800.0	-13,161.6	24.9	13,161.6	0.00	0.00	0.00	
23,100.0	90.00	180.47	9,800.0	-13,261.6	24.1	13,261.6	0.00	0.00	0.00	
23,200.0	90.00	180.47	9,800.0	-13,361.6	23.3	13,361.6	0.00	0.00	0.00	
23,300.0	90.00	180.47	9,800.0	-13,461.6	22.4	13,461.6	0.00	0.00	0.00	

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3156.7usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 802H	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)	
23,400.0	90.00	180.47	9,800.0	-13,561.6	21.6	13,561.6	0.00	0.00	0.00	
23,500.0	90.00	180.47	9,800.0	-13,661.6	20.8	13,661.6	0.00	0.00	0.00	
23,600.0	90.00	180.47	9,800.0	-13,761.6	20.0	13,761.6	0.00	0.00	0.00	
23,700.0	90.00	180.47	9,800.0	-13,861.6	19.1	13,861.6	0.00	0.00	0.00	
23,800.0	90.00	180.47	9,800.0	-13,961.6	18.3	13,961.6	0.00	0.00	0.00	
23,900.0	90.00	180.47	9,800.0	-14,061.6	17.5	14,061.6	0.00	0.00	0.00	
24,000.0	90.00	180.47	9,800.0	-14,161.6	16.7	14,161.6	0.00	0.00	0.00	
24,100.0	90.00	180.47	9,800.0	-14,261.6	15.8	14,261.6	0.00	0.00	0.00	
24,200.0	90.00	180.47	9,800.0	-14,361.6	15.0	14,361.6	0.00	0.00	0.00	
24,300.0	90.00	180.47	9,800.0	-14,461.6	14.2	14,461.6	0.00	0.00	0.00	
24,400.0	90.00	180.47	9,800.0	-14,561.6	13.4	14,561.6	0.00	0.00	0.00	
24,500.0	90.00	180.47	9,800.0	-14,661.6	12.6	14,661.6	0.00	0.00	0.00	
24,600.0	90.00	180.47	9,800.0	-14,761.6	11.7	14,761.6	0.00	0.00	0.00	
24,700.0	90.00	180.47	9,800.0	-14,861.6	10.9	14,861.6	0.00	0.00	0.00	
24,800.0	90.00	180.47	9,800.0	-14,961.5	10.1	14,961.5	0.00	0.00	0.00	
24,900.0	90.00	180.47	9,800.0	-15,061.5	9.3	15,061.5	0.00	0.00	0.00	
25,000.0	90.00	180.47	9,800.0	-15,161.5	8.4	15,161.5	0.00	0.00	0.00	
25,100.0	90.00	180.47	9,800.0	-15,261.5	7.6	15,261.5	0.00	0.00	0.00	
25,200.0	90.00	180.47	9,800.0	-15,361.5	6.8	15,361.5	0.00	0.00	0.00	
25,222.5	90.00	180.47	9,800.0	-15,384.0	6.6	15,384.0	0.00	0.00	0.00	
TD at 25222.5										

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	9,800.0	177.4	135.2	402,801.10	544,757.60	32° 6' 26.402 N		104° 11' 19.619 W
- hit/miss target										
- plan misses target center by 163.4usft at 9740.0usft MD (9678.7 TVD, 67.9 N, 133.9 E)										
- Circle (radius 50.0)										
PBHL_FLAMING SNAIL	0.00	0.42	9,800.0	-15,384.0	6.6	387,239.70	544,629.00	32° 3' 52.399 N		104° 11' 21.355 W
- plan hits target center										
- Rectangle (sides W100.0 H15,561.6 D20.0)										
LTP_FLAMING SNAIL F	90.00	180.51	9,800.0	-15,253.9	7.7	387,369.80	544,630.10	32° 3' 53.687 N		104° 11' 21.341 W
- plan hits target center										
- Circle (radius 50.0)										

Casing Points					
Measured Depth (usft)	Vertical Depth (usft)	Name		Casing Diameter (")	Hole Diameter (")
25,222.5	9,800.0	5-1/2" Production Casing		5-1/2	6

ConocoPhillips
Planning Report

Database:	EDT 17 Permian Prod	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Company:	DELAWARE BASIN WEST	TVD Reference:	KB @ 3156.7usft
Project:	ATLAS PROSPECT (DBW)	MD Reference:	KB @ 3156.7usft
Site:	FLAMING SNAIL FED COM PROJECT	North Reference:	Grid
Well:	FLAMING SNAIL FEDERAL COM 802H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OWB		
Design:	PWP0		

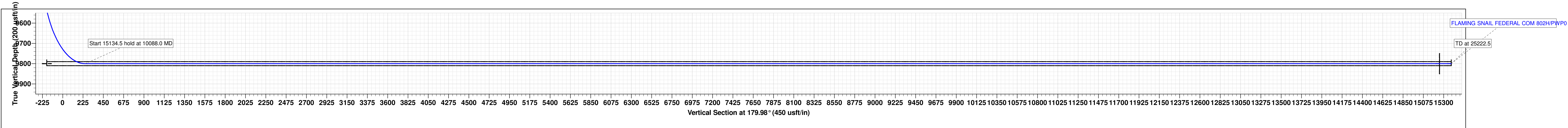
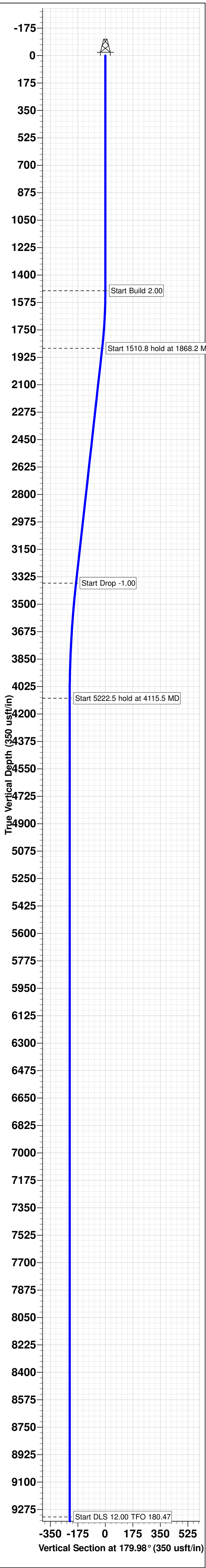
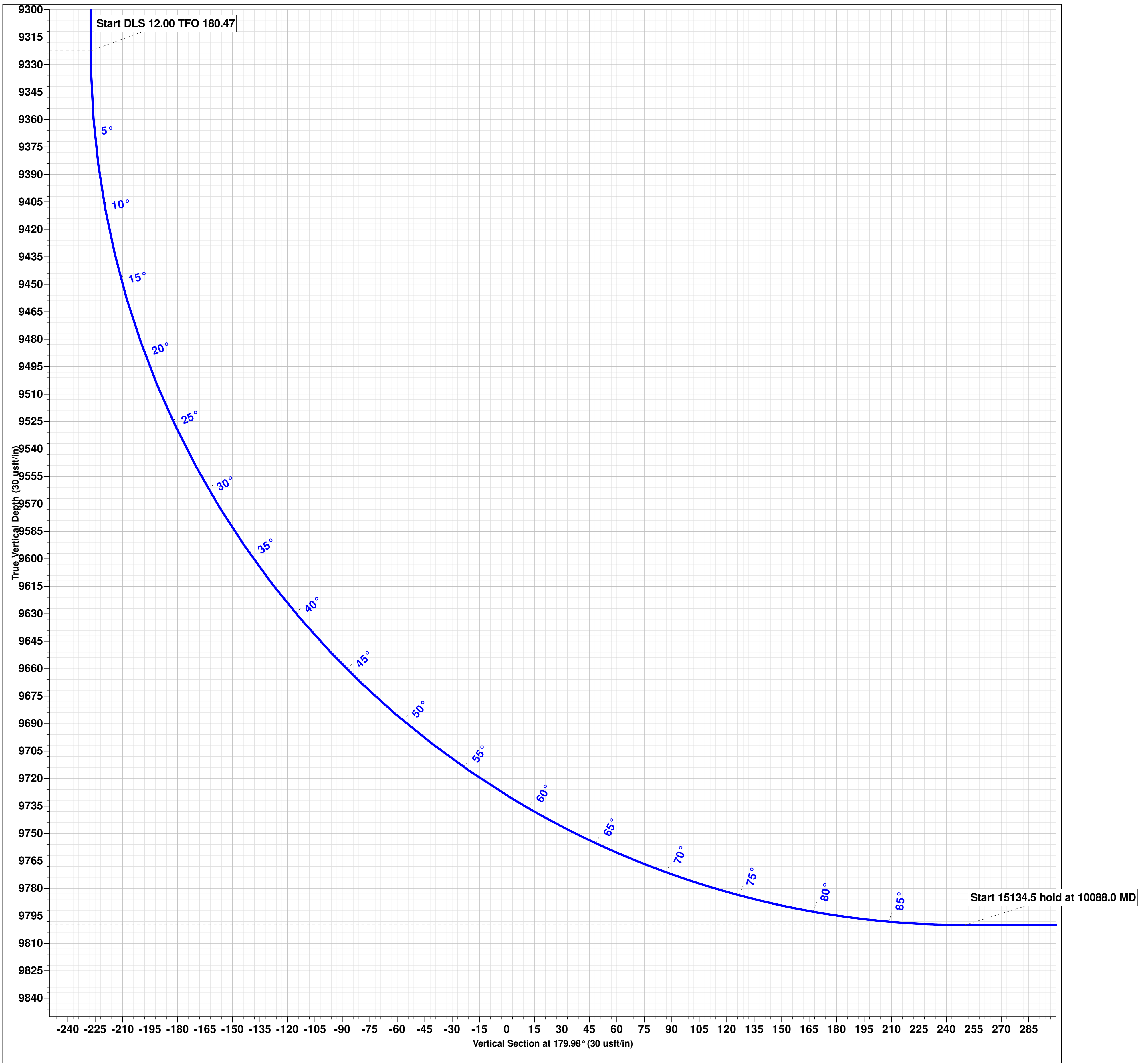
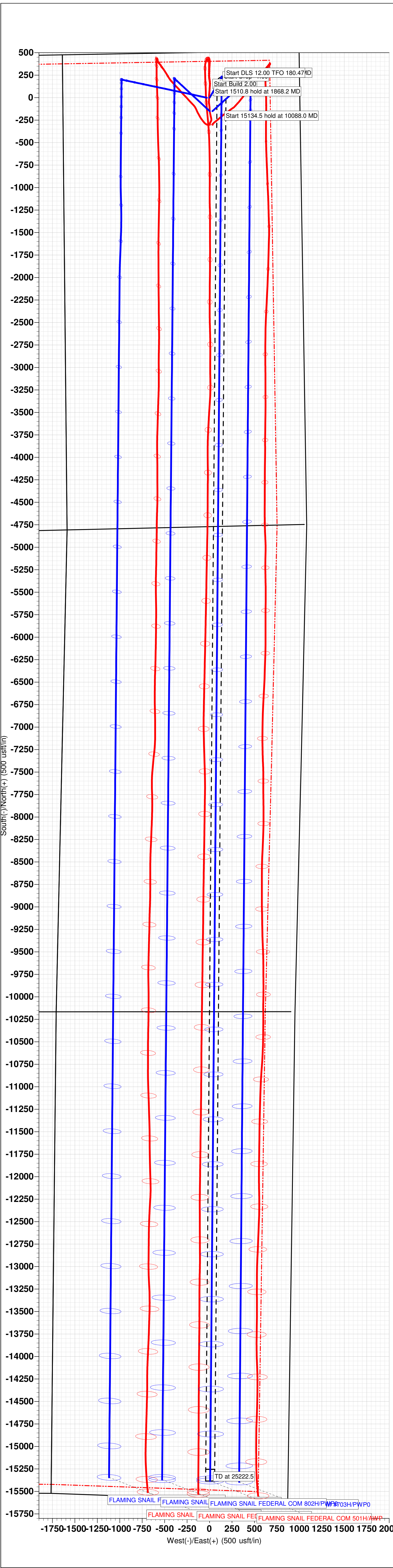
Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
1,500.0	1,500.0	0.0	0.0	Start Build 2.00
1,868.2	1,867.2	20.3	12.1	Start 1510.8 hold at 1868.2 MD
3,379.1	3,365.6	186.8	111.0	Start Drop -1.00
4,115.5	4,100.0	227.4	135.2	Start 5222.5 hold at 4115.5 MD
9,338.0	9,322.5	227.4	135.2	Start DLS 12.00 TFO 180.47
10,088.0	9,800.0	-250.0	131.3	Start 15134.5 hold at 10088.0 MD
25,222.5	9,800.0	-15,384.0	6.6	TD at 25222.5



Project: ATLAS PROSPECT (DBW)
Site: FLAMING SNAIL FED COM PROJECT
Well: FLAMING SNAIL FEDERAL COM 802H
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
1868.2	7.36	30.73	1867.2	20.3	12.1	2.00	30.73	-20.3
3379.1	7.36	30.73	3365.6	186.8	111.0	0.00	0.00	-186.7
4115.5	0.00	0.00	4100.0	227.4	135.2	1.00	180.00	-227.3
9338.0	0.00	0.00	9322.5	227.4	135.2	0.00	0.00	-227.3
10088.0	90.00	180.47	9800.0	-250.0	131.3	12.00	180.47	-250.1
25222.5	90.00	180.47	9800.0	-15384.0	6.6	0.00	0.00	15384.0



DELAWARE BASIN WEST

ATLAS PROSPECT (DBW)

FLAMING SNAIL FED COM PROJECT

FLAMING SNAIL FEDERAL COM 802H

OWB

PWP0

Anticollision Report

11 November, 2024

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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	PWP0		
Filter type:	NO GLOBAL FILTER: Using user defined selection & filtering criteria		
Interpolation Method:	MD + Stations Interval 100.0usft	Error Model:	ISCWSA
Depth Range:	Unlimited	Scan Method:	Closest Approach 3D
Results Limited by:	Max. Cent. Dist. of 1,000.0usft or Max. SF of 3	Error Surface:	Combined Pedal Curve
Warning Levels Evaluated at:	2.79 Sigma	Casing Method:	Added to Error Values

Survey Tool Program		Date	11/11/2024		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
0.0	9,340.6	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1	rev.5
9,340.6	25,222.5	PWP0 (OWB)	r.5 MWD+IFR1	OWSG MWD + IFR1	rev.5

Summary						
	Reference Measured Depth (usft)	Offset Measured Depth (usft)	Distance Between Centres (usft)	Distance Between Ellipses (usft)	Separation Factor	Warning
Site Name Offset Well - Wellbore - Design						
FLAMING SNAIL FED COM PROJECT						
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP0	1,510.5	1,515.5	153.0	143.1	15.481 CC	
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP0	1,600.0	1,607.4	153.3	143.0	14.954 ES	
FLAMING SNAIL FEDERAL COM #703H - OWB - PWP0	25,222.5	24,471.1	867.0	614.3	3.430 SF	
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP0	1,523.9	1,529.6	150.0	140.1	15.084 CC	
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP0	1,600.0	1,608.5	150.2	139.9	14.584 ES	
FLAMING SNAIL FEDERAL COM #704H - OWB - PWP0	25,222.5	24,424.2	966.1	704.6	3.694 SF	
FLAMING SNAIL FEDERAL COM 501H - OWB - AWP	1,450.0	1,466.3	246.2	237.6	28.713 CC, ES	
FLAMING SNAIL FEDERAL COM 501H - OWB - AWP	7,423.6	7,557.0	489.3	467.1	22.038 SF	
FLAMING SNAIL FEDERAL COM 502H - OWB - AWP	1,779.1	1,816.7	220.0	208.0	18.405 CC	
FLAMING SNAIL FEDERAL COM 502H - OWB - AWP	1,800.0	1,838.2	220.0	208.0	18.289 ES	
FLAMING SNAIL FEDERAL COM 502H - OWB - AWP	2,000.0	2,027.2	230.0	217.2	17.993 SF	
FLAMING SNAIL FEDERAL COM 520H - OWB - AWP	4,400.0	4,431.3	138.3	116.6	6.370 ES	
FLAMING SNAIL FEDERAL COM 520H - OWB - AWP	4,408.8	4,439.8	138.3	116.6	6.386 CC	
FLAMING SNAIL FEDERAL COM 520H - OWB - AWP	7,816.8	7,923.4	183.6	153.1	6.011 SF	
FLAMING SNAIL FEDERAL COM 803H - OWB - PWP0	1,500.0	1,500.0	29.9	20.1	3.045 CC, ES, SF	

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	Offset Wellbore Centre	Distance	Rule Assigned:							
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	Warning
0.0	0.0	4.6	4.6	0.0	0.0	167.77	-149.5	32.4	153.0				
100.0	100.0	104.6	104.6	0.8	0.8	167.77	-149.5	32.4	153.0	150.9	2.02	75.657	
200.0	200.0	204.6	204.6	1.4	1.5	167.77	-149.5	32.4	153.0	149.6	3.33	45.910	
300.0	300.0	304.6	304.6	1.9	1.9	167.77	-149.5	32.4	153.0	148.8	4.21	36.319	
400.0	400.0	404.6	404.6	2.2	2.3	167.77	-149.5	32.4	153.0	148.0	4.93	31.052	
500.0	500.0	504.6	504.6	2.6	2.6	167.77	-149.5	32.4	153.0	147.4	5.55	27.583	
600.0	600.0	604.6	604.6	2.8	2.9	167.77	-149.5	32.4	153.0	146.9	6.10	25.069	
700.0	700.0	704.6	704.6	3.1	3.1	167.77	-149.5	32.4	153.0	146.4	6.61	23.135	
800.0	800.0	804.6	804.6	3.3	3.4	167.77	-149.5	32.4	153.0	145.9	7.09	21.585	
900.0	900.0	904.6	904.6	3.6	3.6	167.77	-149.5	32.4	153.0	145.4	7.53	20.306	
1,000.0	1,000.0	1,004.6	1,004.6	3.8	3.8	167.77	-149.5	32.4	153.0	145.0	7.96	19.225	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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)			
1,100.0	1,100.0	1,104.6	1,104.6	4.0	4.0	167.77	-149.5	32.4	153.0	144.6	8.36	18.296	
1,200.0	1,200.0	1,204.6	1,204.6	4.2	4.2	167.77	-149.5	32.4	153.0	144.2	8.75	17.486	
1,300.0	1,300.0	1,304.6	1,304.6	4.4	4.4	167.77	-149.5	32.4	153.0	143.8	9.12	16.771	
1,400.0	1,400.0	1,404.6	1,404.6	4.6	4.6	167.77	-149.5	32.4	153.0	143.5	9.48	16.134	
1,500.0	1,500.0	1,504.7	1,504.7	4.7	4.7	167.77	-149.5	32.4	153.0	143.1	9.83	15.557	
1,510.5	1,510.5	1,515.5	1,515.5	4.8	4.8	137.03	-149.5	32.4	153.0	143.1	9.88	15.481 CC	
1,600.0	1,600.0	1,607.4	1,607.4	5.0	5.0	136.84	-148.2	33.9	153.3	143.0	10.25	14.954 ES	
1,700.0	1,699.8	1,710.1	1,709.9	5.3	5.3	136.35	-144.4	38.1	154.4	143.7	10.66	14.483	
1,800.0	1,799.5	1,812.8	1,812.1	5.6	5.6	135.59	-138.1	45.1	156.3	145.2	11.07	14.120	
1,868.2	1,867.2	1,882.7	1,881.6	5.7	5.8	134.92	-132.4	51.4	158.0	146.7	11.29	13.997	
1,900.0	1,898.7	1,915.3	1,913.9	5.8	5.9	134.54	-129.4	54.8	158.9	147.5	11.38	13.965	
2,000.0	1,997.9	2,017.7	2,014.9	6.0	6.3	132.60	-118.3	67.1	160.5	148.8	11.74	13.676	
2,100.0	2,097.1	2,119.7	2,114.9	6.3	6.6	129.52	-104.9	82.1	160.9	148.9	12.05	13.351	
2,132.3	2,129.1	2,152.1	2,146.5	6.4	6.7	128.32	-100.1	87.3	160.9	148.8	12.13	13.262	
2,200.0	2,196.3	2,219.4	2,212.2	6.5	6.8	125.80	-90.3	98.3	161.1	148.7	12.31	13.078	
2,300.0	2,295.4	2,318.9	2,309.2	6.8	7.1	122.09	-75.7	114.5	161.9	149.2	12.61	12.836	
2,400.0	2,394.6	2,418.3	2,406.2	7.2	7.5	118.43	-61.1	130.7	163.3	150.5	12.89	12.669	
2,500.0	2,493.8	2,517.8	2,503.2	7.5	7.8	114.86	-46.5	147.0	165.5	152.3	13.17	12.567	
2,600.0	2,593.0	2,617.2	2,600.3	7.8	8.2	111.39	-31.9	163.2	168.3	154.8	13.44	12.520	
2,700.0	2,692.1	2,716.6	2,697.3	8.1	8.5	108.04	-17.4	179.4	171.6	157.9	13.71	12.516	
2,800.0	2,791.3	2,816.1	2,794.3	8.5	8.9	104.83	-2.8	195.6	175.6	161.6	14.00	12.543	
2,900.0	2,890.5	2,915.5	2,891.3	8.8	9.3	101.77	11.8	211.9	180.1	165.8	14.30	12.592	
3,000.0	2,989.7	3,015.0	2,988.4	9.2	9.7	98.86	26.4	228.1	185.0	170.4	14.62	12.654	
3,100.0	3,088.8	3,114.4	3,085.4	9.6	10.1	96.11	41.0	244.3	190.5	175.5	14.97	12.721	
3,200.0	3,188.0	3,213.9	3,182.4	9.9	10.5	93.52	55.5	260.5	196.3	180.9	15.35	12.788	
3,300.0	3,287.2	3,313.3	3,279.4	10.3	10.9	91.08	70.1	276.8	202.5	186.7	15.76	12.850	
3,379.1	3,365.6	3,391.9	3,356.1	10.6	11.3	89.26	81.7	289.6	207.7	191.6	16.09	12.910	
3,400.0	3,386.4	3,412.7	3,376.4	10.7	11.4	88.80	84.7	293.0	209.1	192.9	16.17	12.932	
3,500.0	3,485.7	3,512.1	3,473.4	11.0	11.8	86.39	99.3	309.2	216.0	199.4	16.67	12.959	
3,600.0	3,585.2	3,611.2	3,570.1	11.4	12.2	83.71	113.8	325.4	223.5	206.3	17.23	12.977	
3,700.0	3,684.9	3,710.2	3,666.6	11.8	12.6	80.81	128.3	341.5	231.8	214.0	17.86	12.980	
3,800.0	3,784.7	3,809.3	3,763.3	12.1	13.1	77.72	142.8	357.7	241.0	222.5	18.57	12.980	
3,900.0	3,884.5	3,910.2	3,862.1	12.4	13.5	74.67	156.8	373.2	250.8	231.4	19.40	12.925	
4,000.0	3,984.5	4,011.4	3,961.4	12.7	14.0	71.80	169.7	387.5	260.7	240.4	20.23	12.887	
4,100.0	4,084.5	4,113.0	4,061.4	13.0	14.4	69.09	181.4	400.5	270.7	249.7	21.07	12.849	
4,115.5	4,100.0	4,128.7	4,077.0	13.0	14.5	99.42	183.1	402.4	272.3	251.1	21.19	12.850	
4,200.0	4,184.5	4,214.9	4,162.1	13.0	14.8	97.30	191.9	412.3	280.6	258.8	21.87	12.830	
4,300.0	4,284.5	4,317.4	4,263.6	13.1	15.2	95.18	201.3	422.8	289.9	267.2	22.63	12.810	
4,400.0	4,384.5	4,420.3	4,365.8	13.2	15.6	93.44	209.6	431.9	298.2	274.8	23.33	12.782	
4,500.0	4,484.5	4,523.7	4,468.7	13.3	16.0	92.03	216.6	439.7	305.4	281.4	23.97	12.744	
4,600.0	4,584.5	4,627.4	4,572.0	13.3	16.4	90.92	222.4	446.2	311.5	287.0	24.55	12.691	
4,700.0	4,684.5	4,731.4	4,675.8	13.4	16.8	90.08	227.0	451.3	316.4	291.3	25.06	12.622	
4,800.0	4,784.5	4,835.6	4,779.9	13.5	17.1	89.49	230.3	455.0	319.9	294.4	25.52	12.537	
4,900.0	4,884.5	4,939.9	4,884.2	13.6	17.5	89.13	232.3	457.2	322.1	296.2	25.90	12.438	
5,000.0	4,984.5	5,044.4	4,988.6	13.6	17.7	88.99	233.1	458.1	322.9	296.8	26.15	12.348	
5,100.0	5,084.5	5,144.9	5,089.1	13.7	17.7	88.99	233.1	458.1	323.0	296.7	26.29	12.286	
5,200.0	5,184.5	5,244.9	5,189.1	13.8	17.8	88.99	233.1	458.1	323.0	296.5	26.44	12.216	
5,300.0	5,284.5	5,344.9	5,289.1	13.9	17.8	88.99	233.1	458.1	323.0	296.4	26.58	12.148	
5,400.0	5,384.5	5,444.9	5,389.1	13.9	17.9	88.99	233.1	458.1	323.0	296.2	26.73	12.080	
5,500.0	5,484.5	5,544.9	5,489.1	14.0	17.9	88.99	233.1	458.1	323.0	296.1	26.88	12.013	
5,600.0	5,584.5	5,644.9	5,589.1	14.1	18.0	88.99	233.1	458.1	323.0	295.9	27.03	11.946	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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)			
5,700.0	5,684.5	5,744.9	5,689.1	14.2	18.1	88.99	233.1	458.1	323.0	295.8	27.18	11.881	
5,800.0	5,784.5	5,844.9	5,789.1	14.2	18.1	88.99	233.1	458.1	323.0	295.6	27.33	11.816	
5,900.0	5,884.5	5,944.9	5,889.1	14.3	18.2	88.99	233.1	458.1	323.0	295.5	27.48	11.751	
6,000.0	5,984.5	6,044.9	5,989.1	14.4	18.2	88.99	233.1	458.1	323.0	295.3	27.63	11.687	
6,100.0	6,084.5	6,144.9	6,089.1	14.5	18.3	88.99	233.1	458.1	323.0	295.2	27.78	11.624	
6,200.0	6,184.5	6,244.9	6,189.1	14.6	18.3	88.99	233.1	458.1	323.0	295.0	27.93	11.561	
6,300.0	6,284.5	6,344.9	6,289.1	14.6	18.4	88.99	233.1	458.1	323.0	294.9	28.08	11.500	
6,400.0	6,384.5	6,444.9	6,389.1	14.7	18.5	88.99	233.1	458.1	323.0	294.7	28.23	11.438	
6,500.0	6,484.5	6,544.9	6,489.1	14.8	18.5	88.99	233.1	458.1	323.0	294.6	28.39	11.377	
6,600.0	6,584.5	6,644.9	6,589.1	14.9	18.6	88.99	233.1	458.1	323.0	294.4	28.54	11.317	
6,700.0	6,684.5	6,744.9	6,689.1	14.9	18.6	88.99	233.1	458.1	323.0	294.3	28.69	11.258	
6,800.0	6,784.5	6,844.9	6,789.1	15.0	18.7	88.99	233.1	458.1	323.0	294.1	28.84	11.199	
6,900.0	6,884.5	6,944.9	6,889.1	15.1	18.8	88.99	233.1	458.1	323.0	294.0	28.99	11.140	
7,000.0	6,984.5	7,044.9	6,989.1	15.2	18.8	88.99	233.1	458.1	323.0	293.8	29.14	11.083	
7,100.0	7,084.5	7,144.9	7,089.1	15.2	18.9	88.99	233.1	458.1	323.0	293.7	29.29	11.025	
7,200.0	7,184.5	7,244.9	7,189.1	15.3	18.9	88.99	233.1	458.1	323.0	293.5	29.44	10.969	
7,300.0	7,284.5	7,344.9	7,289.1	15.4	19.0	88.99	233.1	458.1	323.0	293.4	29.59	10.912	
7,400.0	7,384.5	7,444.9	7,389.1	15.5	19.1	88.99	233.1	458.1	323.0	293.2	29.75	10.857	
7,500.0	7,484.5	7,544.9	7,489.1	15.6	19.1	88.99	233.1	458.1	323.0	293.1	29.90	10.802	
7,600.0	7,584.5	7,644.9	7,589.1	15.6	19.2	88.99	233.1	458.1	323.0	292.9	30.05	10.747	
7,700.0	7,684.5	7,744.9	7,689.1	15.7	19.2	88.99	233.1	458.1	323.0	292.7	30.20	10.693	
7,800.0	7,784.5	7,844.9	7,789.1	15.8	19.3	88.99	233.1	458.1	323.0	292.6	30.35	10.640	
7,900.0	7,884.5	7,944.9	7,889.1	15.9	19.4	88.99	233.1	458.1	323.0	292.4	30.51	10.586	
8,000.0	7,984.5	8,044.9	7,989.1	15.9	19.4	88.99	233.1	458.1	323.0	292.3	30.66	10.534	
8,100.0	8,084.5	8,144.9	8,089.1	16.0	19.5	88.99	233.1	458.1	323.0	292.1	30.81	10.482	
8,200.0	8,184.5	8,244.9	8,189.1	16.1	19.5	88.99	233.1	458.1	323.0	292.0	30.96	10.430	
8,300.0	8,284.5	8,344.9	8,289.1	16.2	19.6	88.99	233.1	458.1	323.0	291.8	31.12	10.379	
8,400.0	8,384.5	8,444.9	8,389.1	16.2	19.7	88.99	233.1	458.1	323.0	291.7	31.27	10.328	
8,500.0	8,484.5	8,544.9	8,489.1	16.3	19.7	88.99	233.1	458.1	323.0	291.5	31.41	10.280	
8,600.0	8,584.5	8,645.6	8,589.6	16.4	19.8	89.83	228.4	458.1	322.9	291.5	31.38	10.288	
8,622.3	8,606.8	8,667.7	8,611.4	16.4	19.8	90.47	224.7	458.0	322.8	291.5	31.30	10.313	
8,700.0	8,684.5	8,741.2	8,682.3	16.5	19.8	93.87	205.6	457.9	323.5	292.6	30.87	10.478	
8,800.0	8,784.5	8,825.0	8,758.4	16.6	19.8	99.97	170.8	457.6	328.8	298.6	30.15	10.903	
8,900.0	8,884.5	8,895.0	8,816.5	16.6	19.9	106.52	131.9	457.3	343.7	314.1	29.56	11.627	
9,000.0	8,984.5	8,950.0	8,857.8	16.7	19.9	112.28	95.6	457.0	371.7	342.3	29.37	12.654	
9,100.0	9,084.5	9,000.0	8,891.5	16.8	19.9	117.70	58.6	456.7	413.4	383.9	29.49	14.018	
9,200.0	9,184.5	9,035.5	8,913.0	16.9	20.0	121.52	30.4	456.4	467.2	437.2	29.97	15.587	
9,300.0	9,284.5	9,066.1	8,929.8	16.9	20.0	124.73	4.9	456.2	530.8	500.2	30.55	17.375	
9,338.0	9,322.5	9,075.0	8,934.4	17.0	20.0	125.65	-2.8	456.2	557.0	526.2	30.78	18.095	
9,350.0	9,334.5	9,075.0	8,934.4	17.0	20.0	-53.66	-2.8	456.2	565.5	534.6	30.86	18.326	
9,375.0	9,359.5	9,086.1	8,939.8	17.0	20.0	-50.32	-12.4	456.1	582.9	551.9	30.95	18.831	
9,400.0	9,384.3	9,093.0	8,943.2	17.0	20.0	-47.58	-18.5	456.0	600.1	569.0	31.10	19.296	
9,425.0	9,409.0	9,100.0	8,946.4	17.0	20.0	-45.06	-24.7	456.0	617.1	585.9	31.25	19.745	
9,450.0	9,433.5	9,107.6	8,949.9	17.0	20.0	-42.69	-31.5	455.9	633.8	602.4	31.41	20.180	
9,475.0	9,457.6	9,115.2	8,953.2	17.0	20.0	-40.53	-38.3	455.9	650.1	618.5	31.56	20.596	
9,500.0	9,481.4	9,125.0	8,957.3	17.0	20.0	-38.44	-47.2	455.8	666.0	634.3	31.71	21.007	
9,525.0	9,504.8	9,125.0	8,957.3	17.1	20.0	-36.99	-47.2	455.8	681.6	649.6	31.93	21.343	
9,550.0	9,527.6	9,138.9	8,962.9	17.1	20.1	-35.07	-59.9	455.7	696.5	664.5	32.05	21.735	
9,575.0	9,549.9	9,150.0	8,967.1	17.1	20.1	-33.46	-70.2	455.6	711.1	678.9	32.19	22.091	
9,600.0	9,571.5	9,150.0	8,967.1	17.1	20.1	-32.36	-70.2	455.6	725.1	692.7	32.42	22.366	
9,625.0	9,592.5	9,163.8	8,971.9	17.1	20.1	-30.94	-83.2	455.5	738.5	705.9	32.54	22.692	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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)			
9,650.0	9,612.8	9,175.0	8,975.6	17.1	20.1	-29.75	-93.7	455.4	751.4	718.7	32.69	22.983	
9,675.0	9,632.2	9,175.0	8,975.6	17.2	20.1	-28.92	-93.7	455.4	763.7	730.8	32.93	23.194	
9,700.0	9,650.8	9,189.7	8,980.0	17.2	20.1	-27.86	-107.7	455.3	775.3	742.2	33.05	23.457	
9,725.0	9,668.5	9,200.0	8,982.8	17.2	20.1	-26.99	-117.6	455.2	786.3	753.1	33.21	23.676	
9,750.0	9,685.2	9,200.0	8,982.8	17.2	20.1	-26.37	-117.6	455.2	796.8	763.3	33.45	23.823	
9,775.0	9,701.0	9,216.3	8,986.9	17.3	20.1	-25.58	-133.4	455.1	806.4	772.8	33.57	24.024	
9,800.0	9,715.7	9,225.0	8,988.8	17.3	20.1	-24.97	-141.9	455.0	815.4	781.7	33.74	24.167	
9,825.0	9,729.3	9,234.3	8,990.7	17.3	20.2	-24.43	-151.0	454.9	823.7	789.8	33.91	24.290	
9,850.0	9,741.9	9,250.0	8,993.6	17.3	20.2	-23.88	-166.4	454.8	831.4	797.4	34.04	24.422	
9,875.0	9,753.2	9,250.0	8,993.6	17.4	20.2	-23.54	-166.4	454.8	838.3	804.0	34.28	24.456	
9,900.0	9,763.4	9,261.7	8,995.3	17.4	20.2	-23.15	-178.0	454.7	844.4	810.0	34.43	24.523	
9,925.0	9,772.4	9,275.0	8,997.0	17.4	20.2	-22.80	-191.2	454.6	849.9	815.3	34.58	24.575	
9,950.0	9,780.2	9,275.0	8,997.0	17.4	20.2	-22.58	-191.2	454.6	854.6	819.8	34.81	24.548	
9,975.0	9,786.7	9,289.4	8,998.4	17.4	20.2	-22.33	-205.5	454.5	858.5	823.6	34.96	24.559	
10,000.0	9,791.9	9,300.0	8,999.1	17.5	20.2	-22.15	-216.1	454.4	861.7	826.6	35.12	24.535	
10,025.0	9,795.8	9,307.9	8,999.5	17.5	20.2	-22.02	-224.0	454.3	864.2	828.9	35.31	24.478	
10,050.0	9,798.5	9,325.0	9,000.0	17.5	20.3	-21.91	-241.1	454.2	866.0	830.5	35.43	24.439	
10,075.0	9,799.8	9,326.5	9,000.0	17.5	20.3	-21.87	-242.6	454.2	866.8	831.1	35.65	24.314	
10,088.0	9,800.0	9,336.6	9,000.0	17.5	20.3	-21.86	-252.7	454.1	867.0	831.2	35.71	24.279	
10,100.0	9,800.0	9,348.6	9,000.0	17.5	20.3	-21.86	-264.7	454.0	867.0	831.2	35.75	24.252	
10,200.0	9,800.0	9,448.6	9,000.0	17.6	20.4	-21.86	-364.7	453.2	867.0	830.8	36.12	24.002	
10,300.0	9,800.0	9,548.6	9,000.0	17.7	20.6	-21.86	-464.7	452.4	867.0	830.4	36.56	23.712	
10,400.0	9,800.0	9,648.6	9,000.0	17.9	20.8	-21.86	-564.7	451.5	867.0	829.9	37.07	23.389	
10,500.0	9,800.0	9,748.6	9,000.0	18.1	21.0	-21.86	-664.7	450.7	867.0	829.3	37.64	23.035	
10,600.0	9,800.0	9,848.6	9,000.0	18.3	21.3	-21.86	-764.7	449.9	867.0	828.7	38.26	22.657	
10,700.0	9,800.0	9,948.6	9,000.0	18.7	21.6	-21.86	-864.7	449.1	867.0	828.0	38.95	22.259	
10,800.0	9,800.0	10,048.6	9,000.0	19.1	21.9	-21.86	-964.7	448.2	867.0	827.3	39.69	21.845	
10,900.0	9,800.0	10,148.6	9,000.0	19.5	22.3	-21.86	-1,064.7	447.4	867.0	826.5	40.48	21.419	
11,000.0	9,800.0	10,248.6	9,000.0	20.0	22.7	-21.86	-1,164.7	446.6	867.0	825.6	41.31	20.985	
11,100.0	9,800.0	10,348.6	9,000.0	20.6	23.2	-21.86	-1,264.7	445.8	867.0	824.8	42.19	20.547	
11,200.0	9,800.0	10,448.6	9,000.0	21.2	23.7	-21.86	-1,364.7	445.0	867.0	823.8	43.12	20.107	
11,300.0	9,800.0	10,548.6	9,000.0	21.9	24.2	-21.86	-1,464.7	444.1	867.0	822.9	44.08	19.668	
11,400.0	9,800.0	10,648.6	9,000.0	22.5	24.7	-21.86	-1,564.7	443.3	867.0	821.9	45.08	19.232	
11,500.0	9,800.0	10,748.6	9,000.0	23.2	25.3	-21.86	-1,664.7	442.5	867.0	820.8	46.11	18.800	
11,600.0	9,800.0	10,848.6	9,000.0	24.0	25.9	-21.86	-1,764.7	441.7	867.0	819.8	47.18	18.375	
11,700.0	9,800.0	10,948.6	9,000.0	24.7	26.6	-21.86	-1,864.7	440.8	867.0	818.7	48.28	17.958	
11,800.0	9,800.0	11,048.6	9,000.0	25.5	27.2	-21.86	-1,964.6	440.0	867.0	817.6	49.40	17.549	
11,900.0	9,800.0	11,148.6	9,000.0	26.2	27.9	-21.86	-2,064.6	439.2	867.0	816.4	50.55	17.150	
12,000.0	9,800.0	11,248.6	9,000.0	27.0	28.6	-21.86	-2,164.6	438.4	867.0	815.2	51.73	16.760	
12,100.0	9,800.0	11,348.6	9,000.0	27.8	29.3	-21.86	-2,264.6	437.5	867.0	814.0	52.92	16.381	
12,200.0	9,800.0	11,448.6	9,000.0	28.7	30.1	-21.86	-2,364.6	436.7	867.0	812.8	54.14	16.013	
12,300.0	9,800.0	11,548.6	9,000.0	29.5	30.8	-21.86	-2,464.6	435.9	867.0	811.6	55.38	15.654	
12,400.0	9,800.0	11,648.6	9,000.0	30.3	31.6	-21.86	-2,564.6	435.1	867.0	810.3	56.64	15.307	
12,500.0	9,800.0	11,748.6	9,000.0	31.2	32.4	-21.86	-2,664.6	434.3	867.0	809.1	57.91	14.970	
12,600.0	9,800.0	11,848.6	9,000.0	32.0	33.2	-21.86	-2,764.6	433.4	867.0	807.8	59.20	14.644	
12,700.0	9,800.0	11,948.6	9,000.0	32.9	34.0	-21.86	-2,864.6	432.6	867.0	806.5	60.51	14.328	
12,800.0	9,800.0	12,048.6	9,000.0	33.7	34.8	-21.86	-2,964.6	431.8	867.0	805.1	61.83	14.022	
12,900.0	9,800.0	12,148.6	9,000.0	34.6	35.6	-21.86	-3,064.6	431.0	867.0	803.8	63.16	13.726	
13,000.0	9,800.0	12,248.6	9,000.0	35.5	36.4	-21.86	-3,164.6	430.1	867.0	802.5	64.51	13.440	
13,100.0	9,800.0	12,348.6	9,000.0	36.4	37.3	-21.86	-3,264.6	429.3	867.0	801.1	65.86	13.163	
13,200.0	9,800.0	12,448.6	9,000.0	37.2	38.1	-21.86	-3,364.6	428.5	867.0	799.7	67.23	12.896	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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	Offset Wellbore Centre	Distance	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)	Between Centres (usft)	Between Ellipses (usft)	Distance (usft)	Factor
13,300.0	9,800.0	12,548.6	9,000.0	38.1	39.0	-21.86	-3,464.6	427.7	867.0	798.4	68.61	12.637
13,400.0	9,800.0	12,648.6	9,000.0	39.0	39.8	-21.86	-3,564.6	426.9	867.0	797.0	69.99	12.386
13,500.0	9,800.0	12,748.6	9,000.0	39.9	40.7	-21.87	-3,664.6	426.0	867.0	795.6	71.39	12.144
13,600.0	9,800.0	12,848.6	9,000.0	40.8	41.5	-21.87	-3,764.6	425.2	867.0	794.2	72.80	11.909
13,700.0	9,800.0	12,948.6	9,000.0	41.7	42.4	-21.87	-3,864.6	424.4	867.0	792.8	74.21	11.683
13,800.0	9,800.0	13,048.6	9,000.0	42.6	43.3	-21.87	-3,964.6	423.6	867.0	791.3	75.63	11.463
13,900.0	9,800.0	13,148.6	9,000.0	43.5	44.2	-21.87	-4,064.6	422.7	867.0	789.9	77.06	11.251
14,000.0	9,800.0	13,248.6	9,000.0	44.4	45.0	-21.87	-4,164.6	421.9	867.0	788.5	78.49	11.045
14,100.0	9,800.0	13,348.6	9,000.0	45.3	45.9	-21.87	-4,264.6	421.1	867.0	787.0	79.94	10.846
14,200.0	9,800.0	13,448.6	9,000.0	46.2	46.8	-21.87	-4,364.6	420.3	867.0	785.6	81.38	10.653
14,300.0	9,800.0	13,548.6	9,000.0	47.2	47.7	-21.87	-4,464.6	419.4	867.0	784.1	82.84	10.466
14,400.0	9,800.0	13,648.6	9,000.0	48.1	48.6	-21.87	-4,564.6	418.6	867.0	782.7	84.30	10.285
14,500.0	9,800.0	13,748.6	9,000.0	49.0	49.5	-21.87	-4,664.6	417.8	867.0	781.2	85.76	10.109
14,600.0	9,800.0	13,848.6	9,000.0	49.9	50.4	-21.87	-4,764.6	417.0	867.0	779.7	87.23	9.939
14,700.0	9,800.0	13,948.6	9,000.0	50.8	51.3	-21.87	-4,864.5	416.2	867.0	778.3	88.70	9.774
14,800.0	9,800.0	14,048.6	9,000.0	51.8	52.2	-21.87	-4,964.5	415.3	867.0	776.8	90.18	9.614
14,900.0	9,800.0	14,148.6	9,000.0	52.7	53.1	-21.87	-5,064.5	414.5	867.0	775.3	91.66	9.458
15,000.0	9,800.0	14,248.6	9,000.0	53.6	54.0	-21.87	-5,164.5	413.7	867.0	773.8	93.15	9.307
15,100.0	9,800.0	14,348.6	9,000.0	54.6	54.9	-21.87	-5,264.5	412.9	867.0	772.3	94.64	9.161
15,200.0	9,800.0	14,448.6	9,000.0	55.5	55.8	-21.87	-5,364.5	412.0	867.0	770.8	96.13	9.019
15,300.0	9,800.0	14,548.6	9,000.0	56.4	56.8	-21.87	-5,464.5	411.2	867.0	769.3	97.63	8.880
15,400.0	9,800.0	14,648.6	9,000.0	57.3	57.7	-21.87	-5,564.5	410.4	867.0	767.8	99.13	8.746
15,500.0	9,800.0	14,748.6	9,000.0	58.3	58.6	-21.87	-5,664.5	409.6	867.0	766.3	100.63	8.615
15,600.0	9,800.0	14,848.6	9,000.0	59.2	59.5	-21.87	-5,764.5	408.7	867.0	764.8	102.14	8.488
15,700.0	9,800.0	14,948.6	9,000.0	60.1	60.4	-21.87	-5,864.5	407.9	867.0	763.3	103.65	8.364
15,800.0	9,800.0	15,048.6	9,000.0	61.1	61.4	-21.87	-5,964.5	407.1	867.0	761.8	105.16	8.244
15,900.0	9,800.0	15,148.6	9,000.0	62.0	62.3	-21.87	-6,064.5	406.3	867.0	760.3	106.68	8.127
16,000.0	9,800.0	15,248.6	9,000.0	63.0	63.2	-21.87	-6,164.5	405.5	867.0	758.8	108.19	8.013
16,100.0	9,800.0	15,348.6	9,000.0	63.9	64.1	-21.87	-6,264.5	404.6	867.0	757.3	109.71	7.902
16,200.0	9,800.0	15,448.6	9,000.0	64.8	65.1	-21.87	-6,364.5	403.8	867.0	755.7	111.24	7.794
16,300.0	9,800.0	15,548.6	9,000.0	65.8	66.0	-21.87	-6,464.5	403.0	867.0	754.2	112.76	7.689
16,400.0	9,800.0	15,648.6	9,000.0	66.7	66.9	-21.87	-6,564.5	402.2	867.0	752.7	114.29	7.586
16,500.0	9,800.0	15,748.6	9,000.0	67.7	67.9	-21.87	-6,664.5	401.3	867.0	751.2	115.82	7.486
16,600.0	9,800.0	15,848.6	9,000.0	68.6	68.8	-21.87	-6,764.5	400.5	867.0	749.6	117.35	7.388
16,700.0	9,800.0	15,948.6	9,000.0	69.5	69.7	-21.87	-6,864.5	399.7	867.0	748.1	118.88	7.293
16,800.0	9,800.0	16,048.6	9,000.0	70.5	70.7	-21.87	-6,964.5	398.9	867.0	746.6	120.42	7.200
16,900.0	9,800.0	16,148.6	9,000.0	71.4	71.6	-21.87	-7,064.5	398.1	867.0	745.0	121.95	7.109
17,000.0	9,800.0	16,248.6	9,000.0	72.4	72.5	-21.87	-7,164.5	397.2	867.0	743.5	123.49	7.021
17,100.0	9,800.0	16,348.6	9,000.0	73.3	73.5	-21.87	-7,264.5	396.4	867.0	741.9	125.03	6.934
17,200.0	9,800.0	16,448.6	9,000.0	74.3	74.4	-21.87	-7,364.5	395.6	867.0	740.4	126.57	6.850
17,300.0	9,800.0	16,548.6	9,000.0	75.2	75.3	-21.87	-7,464.5	394.8	867.0	738.9	128.11	6.767
17,400.0	9,800.0	16,648.6	9,000.0	76.2	76.3	-21.87	-7,564.5	393.9	867.0	737.3	129.66	6.687
17,500.0	9,800.0	16,748.6	9,000.0	77.1	77.2	-21.87	-7,664.5	393.1	867.0	735.8	131.20	6.608
17,600.0	9,800.0	16,848.6	9,000.0	78.0	78.2	-21.87	-7,764.5	392.3	867.0	734.2	132.75	6.531
17,700.0	9,800.0	16,948.6	9,000.0	79.0	79.1	-21.87	-7,864.4	391.5	867.0	732.7	134.30	6.456
17,800.0	9,800.0	17,048.6	9,000.0	79.9	80.0	-21.87	-7,964.4	390.6	867.0	731.1	135.85	6.382
17,900.0	9,800.0	17,148.6	9,000.0	80.9	81.0	-21.87	-8,064.4	389.8	867.0	729.6	137.40	6.310
18,000.0	9,800.0	17,248.6	9,000.0	81.8	81.9	-21.87	-8,164.4	389.0	867.0	728.0	138.95	6.239
18,100.0	9,800.0	17,348.6	9,000.0	82.8	82.9	-21.87	-8,264.4	388.2	867.0	726.5	140.51	6.170
18,200.0	9,800.0	17,448.6	9,000.0	83.7	83.8	-21.87	-8,364.4	387.4	867.0	724.9	142.06	6.103
18,300.0	9,800.0	17,548.6	9,000.0	84.7	84.8	-21.87	-8,464.4	386.5	867.0	723.4	143.62	6.037

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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		Semi Major Axis		Offset Wellbore Centre		Rule Assigned:				Offset Well Error: 0.0 usft	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
18,400.0	9,800.0	17,648.6	9,000.0	85.6	85.7	-21.87	-8,564.4	385.7	867.0	721.8	145.17	5.972	
18,500.0	9,800.0	17,748.6	9,000.0	86.6	86.6	-21.87	-8,664.4	384.9	867.0	720.3	146.73	5.909	
18,600.0	9,800.0	17,848.6	9,000.0	87.5	87.6	-21.87	-8,764.4	384.1	867.0	718.7	148.29	5.847	
18,700.0	9,800.0	17,948.6	9,000.0	88.5	88.5	-21.87	-8,864.4	383.2	867.0	717.1	149.85	5.786	
18,800.0	9,800.0	18,048.6	9,000.0	89.4	89.5	-21.87	-8,964.4	382.4	867.0	715.6	151.41	5.726	
18,900.0	9,800.0	18,148.6	9,000.0	90.4	90.4	-21.87	-9,064.4	381.6	867.0	714.0	152.97	5.668	
19,000.0	9,800.0	18,248.6	9,000.0	91.3	91.4	-21.87	-9,164.4	380.8	867.0	712.5	154.53	5.610	
19,100.0	9,800.0	18,348.6	9,000.0	92.3	92.3	-21.87	-9,264.4	379.9	867.0	710.9	156.09	5.554	
19,200.0	9,800.0	18,448.6	9,000.0	93.2	93.3	-21.87	-9,364.4	379.1	867.0	709.3	157.66	5.499	
19,300.0	9,800.0	18,548.6	9,000.0	94.2	94.2	-21.87	-9,464.4	378.3	867.0	707.8	159.22	5.445	
19,400.0	9,800.0	18,648.6	9,000.0	95.2	95.2	-21.87	-9,564.4	377.5	867.0	706.2	160.79	5.392	
19,500.0	9,800.0	18,748.6	9,000.0	96.1	96.1	-21.87	-9,664.4	376.7	867.0	704.6	162.35	5.340	
19,600.0	9,800.0	18,848.6	9,000.0	97.1	97.1	-21.87	-9,764.4	375.8	867.0	703.1	163.92	5.289	
19,700.0	9,800.0	18,948.6	9,000.0	98.0	98.0	-21.87	-9,864.4	375.0	867.0	701.5	165.49	5.239	
19,800.0	9,800.0	19,048.6	9,000.0	99.0	99.0	-21.87	-9,964.4	374.2	867.0	699.9	167.06	5.190	
19,900.0	9,800.0	19,148.6	9,000.0	99.9	99.9	-21.87	-10,064.4	373.4	867.0	698.4	168.63	5.141	
20,000.0	9,800.0	19,248.6	9,000.0	100.9	100.9	-21.87	-10,164.4	372.5	867.0	696.8	170.20	5.094	
20,100.0	9,800.0	19,348.6	9,000.0	101.8	101.8	-21.87	-10,264.4	371.7	867.0	695.2	171.77	5.048	
20,200.0	9,800.0	19,448.6	9,000.0	102.8	102.8	-21.87	-10,364.4	370.9	867.0	693.7	173.34	5.002	
20,300.0	9,800.0	19,548.6	9,000.0	103.7	103.7	-21.87	-10,464.4	370.1	867.0	692.1	174.91	4.957	
20,400.0	9,800.0	19,648.6	9,000.0	104.7	104.7	-21.87	-10,564.4	369.3	867.0	690.5	176.48	4.913	
20,500.0	9,800.0	19,748.6	9,000.0	105.7	105.6	-21.87	-10,664.4	368.4	867.0	688.9	178.05	4.869	
20,600.0	9,800.0	19,848.6	9,000.0	106.6	106.6	-21.87	-10,764.3	367.6	867.0	687.4	179.62	4.827	
20,700.0	9,800.0	19,948.6	9,000.0	107.6	107.5	-21.87	-10,864.3	366.8	867.0	685.8	181.20	4.785	
20,800.0	9,800.0	20,048.6	9,000.0	108.5	108.5	-21.87	-10,964.3	366.0	867.0	684.2	182.77	4.744	
20,900.0	9,800.0	20,148.6	9,000.0	109.5	109.4	-21.87	-11,064.3	365.1	867.0	682.6	184.35	4.703	
21,000.0	9,800.0	20,248.6	9,000.0	110.4	110.4	-21.87	-11,164.3	364.3	867.0	681.1	185.92	4.663	
21,100.0	9,800.0	20,348.6	9,000.0	111.4	111.3	-21.87	-11,264.3	363.5	867.0	679.5	187.50	4.624	
21,200.0	9,800.0	20,448.6	9,000.0	112.3	112.3	-21.87	-11,364.3	362.7	867.0	677.9	189.07	4.585	
21,300.0	9,800.0	20,548.6	9,000.0	113.3	113.2	-21.87	-11,464.3	361.8	867.0	676.3	190.65	4.548	
21,400.0	9,800.0	20,648.6	9,000.0	114.3	114.2	-21.87	-11,564.3	361.0	867.0	674.8	192.23	4.510	
21,500.0	9,800.0	20,748.6	9,000.0	115.2	115.1	-21.87	-11,664.3	360.2	867.0	673.2	193.80	4.474	
21,600.0	9,800.0	20,848.6	9,000.0	116.2	116.1	-21.87	-11,764.3	359.4	867.0	671.6	195.38	4.437	
21,700.0	9,800.0	20,948.6	9,000.0	117.1	117.0	-21.87	-11,864.3	358.6	867.0	670.0	196.96	4.402	
21,800.0	9,800.0	21,048.6	9,000.0	118.1	118.0	-21.87	-11,964.3	357.7	867.0	668.5	198.54	4.367	
21,900.0	9,800.0	21,148.6	9,000.0	119.0	118.9	-21.87	-12,064.3	356.9	867.0	666.9	200.12	4.332	
22,000.0	9,800.0	21,248.6	9,000.0	120.0	119.9	-21.87	-12,164.3	356.1	867.0	665.3	201.70	4.299	
22,100.0	9,800.0	21,348.6	9,000.0	121.0	120.9	-21.87	-12,264.3	355.3	867.0	663.7	203.28	4.265	
22,200.0	9,800.0	21,448.6	9,000.0	121.9	121.8	-21.87	-12,364.3	354.4	867.0	662.1	204.86	4.232	
22,300.0	9,800.0	21,548.6	9,000.0	122.9	122.8	-21.87	-12,464.3	353.6	867.0	660.6	206.44	4.200	
22,400.0	9,800.0	21,648.6	9,000.0	123.8	123.7	-21.87	-12,564.3	352.8	867.0	659.0	208.02	4.168	
22,500.0	9,800.0	21,748.6	9,000.0	124.8	124.7	-21.87	-12,664.3	352.0	867.0	657.4	209.60	4.136	
22,600.0	9,800.0	21,848.6	9,000.0	125.7	125.6	-21.87	-12,764.3	351.1	867.0	655.8	211.18	4.105	
22,700.0	9,800.0	21,948.6	9,000.0	126.7	126.6	-21.87	-12,864.3	350.3	867.0	654.2	212.76	4.075	
22,800.0	9,800.0	22,048.6	9,000.0	127.7	127.5	-21.87	-12,964.3	349.5	867.0	652.7	214.34	4.045	
22,900.0	9,800.0	22,148.6	9,000.0	128.6	128.5	-21.87	-13,064.3	348.7	867.0	651.1	215.93	4.015	
23,000.0	9,800.0	22,248.6	9,000.0	129.6	129.5	-21.87	-13,164.3	347.9	867.0	649.5	217.51	3.986	
23,100.0	9,800.0	22,348.6	9,000.0	130.5	130.4	-21.87	-13,264.3	347.0	867.0	647.9	219.09	3.957	
23,200.0	9,800.0	22,448.6	9,000.0	131.5	131.4	-21.87	-13,364.3	346.2	867.0	646.3	220.68	3.929	
23,300.0	9,800.0	22,548.6	9,000.0	132.5	132.3	-21.87	-13,464.3	345.4	867.0	644.7	222.26	3.901	
23,400.0	9,800.0	22,648.6	9,000.0	133.4	133.3	-21.87	-13,564.3	344.6	867.0	643.2	223.84	3.873	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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)			
23,500.0	9,800.0	22,748.6	9,000.0	134.4	134.2	-21.87	-13,664.3	343.7	867.0	641.6	225.43	3.846	
23,600.0	9,800.0	22,848.6	9,000.0	135.3	135.2	-21.87	-13,764.2	342.9	867.0	640.0	227.01	3.819	
23,700.0	9,800.0	22,948.6	9,000.0	136.3	136.1	-21.87	-13,864.2	342.1	867.0	638.4	228.60	3.793	
23,800.0	9,800.0	23,048.6	9,000.0	137.2	137.1	-21.87	-13,964.2	341.3	867.0	636.8	230.18	3.767	
23,900.0	9,800.0	23,148.6	9,000.0	138.2	138.1	-21.87	-14,064.2	340.5	867.0	635.2	231.77	3.741	
24,000.0	9,800.0	23,248.6	9,000.0	139.2	139.0	-21.87	-14,164.2	339.6	867.0	633.7	233.35	3.715	
24,100.0	9,800.0	23,348.6	9,000.0	140.1	140.0	-21.87	-14,264.2	338.8	867.0	632.1	234.94	3.690	
24,200.0	9,800.0	23,448.6	9,000.0	141.1	140.9	-21.87	-14,364.2	338.0	867.0	630.5	236.52	3.666	
24,300.0	9,800.0	23,548.6	9,000.0	142.0	141.9	-21.87	-14,464.2	337.2	867.0	628.9	238.11	3.641	
24,400.0	9,800.0	23,648.6	9,000.0	143.0	142.8	-21.87	-14,564.2	336.3	867.0	627.3	239.70	3.617	
24,500.0	9,800.0	23,748.6	9,000.0	144.0	143.8	-21.87	-14,664.2	335.5	867.0	625.7	241.28	3.593	
24,600.0	9,800.0	23,848.6	9,000.0	144.9	144.8	-21.87	-14,764.2	334.7	867.0	624.1	242.87	3.570	
24,700.0	9,800.0	23,948.6	9,000.0	145.9	145.7	-21.87	-14,864.2	333.9	867.0	622.5	244.46	3.547	
24,800.0	9,800.0	24,048.6	9,000.0	146.8	146.7	-21.87	-14,964.2	333.0	867.0	621.0	246.04	3.524	
24,900.0	9,800.0	24,148.6	9,000.0	147.8	147.6	-21.87	-15,064.2	332.2	867.0	619.4	247.63	3.501	
25,000.0	9,800.0	24,248.6	9,000.0	148.8	148.6	-21.87	-15,164.2	331.4	867.0	617.8	249.22	3.479	
25,100.0	9,800.0	24,348.6	9,000.0	149.7	149.5	-21.87	-15,264.2	330.6	867.0	616.2	250.81	3.457	
25,200.0	9,800.0	24,448.6	9,000.0	150.7	150.5	-21.87	-15,364.2	329.8	867.0	614.6	252.39	3.435	
25,222.5	9,800.0	24,471.1	9,000.0	150.9	150.7	-21.87	-15,386.7	329.6	867.0	614.3	252.75	3.430 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 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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 #704H - OWB - PWP0													Offset Site Error: 0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 8570-r.5 MWD+IFR1													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 (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	4.6	4.6	0.0	0.0	179.08	-150.0	2.4	150.0				
100.0	100.0	104.6	104.6	0.8	0.8	179.08	-150.0	2.4	150.0	148.0	2.02	74.197	
200.0	200.0	204.6	204.6	1.4	1.5	179.08	-150.0	2.4	150.0	146.7	3.33	45.025	
300.0	300.0	304.6	304.6	1.9	1.9	179.08	-150.0	2.4	150.0	145.8	4.21	35.618	
400.0	400.0	404.6	404.6	2.2	2.3	179.08	-150.0	2.4	150.0	145.1	4.93	30.453	
500.0	500.0	504.6	504.6	2.6	2.6	179.08	-150.0	2.4	150.0	144.5	5.55	27.051	
600.0	600.0	604.6	604.6	2.8	2.9	179.08	-150.0	2.4	150.0	143.9	6.10	24.585	
700.0	700.0	704.6	704.6	3.1	3.1	179.08	-150.0	2.4	150.0	143.4	6.61	22.688	
800.0	800.0	804.6	804.6	3.3	3.4	179.08	-150.0	2.4	150.0	142.9	7.09	21.169	
900.0	900.0	904.6	904.6	3.6	3.6	179.08	-150.0	2.4	150.0	142.5	7.53	19.914	
1,000.0	1,000.0	1,004.6	1,004.6	3.8	3.8	179.08	-150.0	2.4	150.0	142.1	7.96	18.854	
1,100.0	1,100.0	1,104.6	1,104.6	4.0	4.0	179.08	-150.0	2.4	150.0	141.7	8.36	17.943	
1,200.0	1,200.0	1,204.6	1,204.6	4.2	4.2	179.08	-150.0	2.4	150.0	141.3	8.75	17.149	
1,300.0	1,300.0	1,304.6	1,304.6	4.4	4.4	179.08	-150.0	2.4	150.0	140.9	9.12	16.448	
1,400.0	1,400.0	1,404.6	1,404.6	4.6	4.6	179.08	-150.0	2.4	150.0	140.5	9.48	15.823	
1,500.0	1,500.0	1,504.8	1,504.8	4.7	4.7	179.08	-150.0	2.4	150.0	140.2	9.83	15.256	
1,523.9	1,523.9	1,529.6	1,529.6	4.8	4.8	148.41	-149.9	2.3	150.0	140.1	9.94	15.084 CC	
1,600.0	1,600.0	1,608.5	1,608.4	5.0	5.0	149.28	-148.6	0.9	150.2	139.9	10.30	14.584 ES	
1,700.0	1,699.8	1,711.8	1,711.6	5.3	5.3	151.93	-144.7	-3.4	151.0	140.3	10.75	14.044	
1,800.0	1,799.5	1,814.5	1,813.9	5.6	5.6	156.18	-138.3	-10.3	153.2	142.0	11.22	13.654	
1,868.2	1,867.2	1,884.1	1,883.0	5.7	5.8	159.88	-132.6	-16.5	155.9	144.5	11.48	13.587	
1,900.0	1,898.7	1,916.3	1,914.9	5.8	5.9	161.78	-129.5	-19.8	157.5	145.9	11.58	13.605	
2,000.0	1,997.9	2,017.2	2,014.4	6.0	6.2	168.21	-118.4	-31.8	162.5	150.5	11.98	13.568	
2,100.0	2,097.1	2,116.2	2,111.5	6.3	6.5	175.06	-105.5	-45.9	168.4	156.1	12.33	13.657	
2,200.0	2,196.3	2,213.9	2,207.3	6.5	6.8	-178.54	-92.4	-60.1	176.5	163.7	12.74	13.847	
2,300.0	2,295.4	2,311.7	2,303.1	6.8	7.1	-172.75	-79.3	-74.4	186.6	173.4	13.16	14.177	
2,400.0	2,394.6	2,409.4	2,398.9	7.2	7.4	-167.58	-66.1	-88.6	198.5	184.9	13.59	14.607	
2,500.0	2,493.8	2,507.1	2,494.7	7.5	7.7	-163.01	-53.0	-102.8	211.8	197.8	14.02	15.105	
2,600.0	2,593.0	2,604.9	2,590.5	7.8	8.1	-158.99	-39.9	-117.1	226.4	211.9	14.47	15.647	
2,700.0	2,692.1	2,702.6	2,686.3	8.1	8.4	-155.46	-26.8	-131.3	241.9	227.0	14.92	16.211	
2,800.0	2,791.3	2,800.3	2,782.1	8.5	8.8	-152.35	-13.7	-145.6	258.2	242.8	15.39	16.783	
2,900.0	2,890.5	2,898.1	2,877.9	8.8	9.2	-149.62	-0.5	-159.8	275.2	259.3	15.86	17.352	
3,000.0	2,989.7	2,995.8	2,973.7	9.2	9.5	-147.21	12.6	-174.0	292.7	276.4	16.34	17.912	
3,100.0	3,088.8	3,093.5	3,069.5	9.6	9.9	-145.06	25.7	-188.3	310.7	293.9	16.83	18.457	
3,200.0	3,188.0	3,191.3	3,165.3	9.9	10.3	-143.16	38.8	-202.5	329.1	311.7	17.33	18.983	
3,300.0	3,287.2	3,289.0	3,261.1	10.3	10.7	-141.45	51.9	-216.7	347.7	329.9	17.84	19.490	
3,379.1	3,365.6	3,366.3	3,336.8	10.6	11.0	-140.22	62.3	-228.0	362.7	344.5	18.23	19.893	
3,400.0	3,386.4	3,386.8	3,356.9	10.7	11.1	-139.94	65.1	-231.0	366.7	348.3	18.33	20.006	
3,500.0	3,485.7	3,484.6	3,452.8	11.0	11.5	-138.55	78.2	-245.2	384.9	366.1	18.86	20.415	
3,600.0	3,585.2	3,582.5	3,548.8	11.4	12.0	-137.13	91.3	-259.5	402.2	382.8	19.37	20.763	
3,700.0	3,684.9	3,680.6	3,644.9	11.8	12.4	-135.67	104.5	-273.8	418.5	398.6	19.88	21.047	
3,800.0	3,784.7	3,778.6	3,741.0	12.1	12.8	-134.16	117.7	-288.1	433.8	413.4	20.39	21.273	
3,900.0	3,884.5	3,876.7	3,837.2	12.4	13.2	-132.59	130.8	-302.4	448.3	427.4	20.91	21.446	
4,000.0	3,984.5	3,978.4	3,936.9	12.7	13.6	-130.95	144.2	-316.8	461.8	440.4	21.43	21.554	
4,100.0	4,084.5	4,082.1	4,039.0	13.0	14.1	-129.37	156.6	-330.3	473.5	451.6	21.93	21.587	
4,115.5	4,100.0	4,098.3	4,054.9	13.0	14.2	-98.39	158.4	-332.3	475.1	453.1	22.00	21.599	
4,200.0	4,184.5	4,186.5	4,142.0	13.0	14.5	-97.11	167.8	-342.5	483.7	461.3	22.38	21.615	
4,300.0	4,284.5	4,291.3	4,245.9	13.1	15.0	-95.79	177.8	-353.3	492.9	470.1	22.83	21.593	
4,400.0	4,384.5	4,396.7	4,350.5	13.2	15.4	-94.69	186.6	-362.8	501.2	477.9	23.28	21.529	
4,500.0	4,484.5	4,502.6	4,455.7	13.3	15.8	-93.77	194.0	-370.9	508.3	484.6	23.72	21.427	
4,600.0	4,584.5	4,608.8	4,561.6	13.3	16.2	-93.03	200.2	-377.6	514.3	490.1	24.15	21.293	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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 #704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 8570-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)			
4,700.0	4,684.5	4,715.3	4,667.9	13.4	16.6	-92.47	205.1	-382.9	519.0	494.5	24.56	21.131	
4,800.0	4,784.5	4,822.1	4,774.5	13.5	16.9	-92.06	208.6	-386.7	522.5	497.5	24.94	20.947	
4,900.0	4,884.5	4,929.0	4,881.3	13.6	17.2	-91.82	210.8	-389.1	524.6	499.3	25.28	20.749	
5,000.0	4,984.5	5,036.0	4,988.3	13.6	17.5	-91.72	211.6	-390.0	525.4	499.9	25.54	20.571	
5,100.0	5,084.5	5,136.8	5,089.1	13.7	17.5	-91.72	211.6	-390.0	525.4	499.7	25.68	20.460	
5,200.0	5,184.5	5,236.8	5,189.1	13.8	17.6	-91.72	211.6	-390.0	525.4	499.6	25.83	20.339	
5,300.0	5,284.5	5,336.8	5,289.1	13.9	17.6	-91.72	211.6	-390.0	525.4	499.4	25.99	20.219	
5,400.0	5,384.5	5,436.8	5,389.1	13.9	17.7	-91.72	211.6	-390.0	525.4	499.3	26.14	20.100	
5,500.0	5,484.5	5,536.8	5,489.1	14.0	17.7	-91.72	211.6	-390.0	525.4	499.1	26.29	19.982	
5,600.0	5,584.5	5,636.8	5,589.1	14.1	17.8	-91.72	211.6	-390.0	525.4	499.0	26.45	19.866	
5,700.0	5,684.5	5,736.8	5,689.1	14.2	17.9	-91.72	211.6	-390.0	525.4	498.8	26.60	19.751	
5,800.0	5,784.5	5,836.8	5,789.1	14.2	17.9	-91.72	211.6	-390.0	525.4	498.7	26.76	19.638	
5,900.0	5,884.5	5,936.8	5,889.1	14.3	18.0	-91.72	211.6	-390.0	525.4	498.5	26.91	19.525	
6,000.0	5,984.5	6,036.8	5,989.1	14.4	18.0	-91.72	211.6	-390.0	525.4	498.4	27.06	19.414	
6,100.0	6,084.5	6,136.8	6,089.1	14.5	18.1	-91.72	211.6	-390.0	525.4	498.2	27.22	19.304	
6,200.0	6,184.5	6,236.8	6,189.1	14.6	18.2	-91.72	211.6	-390.0	525.4	498.1	27.37	19.195	
6,300.0	6,284.5	6,336.8	6,289.1	14.6	18.2	-91.72	211.6	-390.0	525.4	497.9	27.53	19.088	
6,400.0	6,384.5	6,436.8	6,389.1	14.7	18.3	-91.72	211.6	-390.0	525.4	497.7	27.68	18.981	
6,500.0	6,484.5	6,536.8	6,489.1	14.8	18.3	-91.72	211.6	-390.0	525.4	497.6	27.84	18.876	
6,600.0	6,584.5	6,636.8	6,589.1	14.9	18.4	-91.72	211.6	-390.0	525.4	497.4	27.99	18.772	
6,700.0	6,684.5	6,736.8	6,689.1	14.9	18.5	-91.72	211.6	-390.0	525.4	497.3	28.15	18.668	
6,800.0	6,784.5	6,836.8	6,789.1	15.0	18.5	-91.72	211.6	-390.0	525.4	497.1	28.30	18.566	
6,900.0	6,884.5	6,936.8	6,889.1	15.1	18.6	-91.72	211.6	-390.0	525.4	497.0	28.45	18.465	
7,000.0	6,984.5	7,036.8	6,989.1	15.2	18.6	-91.72	211.6	-390.0	525.4	496.8	28.61	18.365	
7,100.0	7,084.5	7,136.8	7,089.1	15.2	18.7	-91.72	211.6	-390.0	525.4	496.7	28.76	18.267	
7,200.0	7,184.5	7,236.8	7,189.1	15.3	18.7	-91.72	211.6	-390.0	525.4	496.5	28.92	18.169	
7,300.0	7,284.5	7,336.8	7,289.1	15.4	18.8	-91.72	211.6	-390.0	525.4	496.4	29.07	18.072	
7,400.0	7,384.5	7,436.8	7,389.1	15.5	18.9	-91.72	211.6	-390.0	525.4	496.2	29.23	17.976	
7,500.0	7,484.5	7,536.8	7,489.1	15.6	18.9	-91.72	211.6	-390.0	525.4	496.0	29.38	17.881	
7,600.0	7,584.5	7,636.8	7,589.1	15.6	19.0	-91.72	211.6	-390.0	525.4	495.9	29.54	17.787	
7,700.0	7,684.5	7,736.8	7,689.1	15.7	19.1	-91.72	211.6	-390.0	525.4	495.7	29.70	17.694	
7,800.0	7,784.5	7,836.8	7,789.1	15.8	19.1	-91.72	211.6	-390.0	525.4	495.6	29.85	17.602	
7,900.0	7,884.5	7,936.8	7,889.1	15.9	19.2	-91.72	211.6	-390.0	525.4	495.4	30.01	17.511	
8,000.0	7,984.5	8,036.8	7,989.1	15.9	19.2	-91.72	211.6	-390.0	525.4	495.3	30.16	17.420	
8,100.0	8,084.5	8,136.8	8,089.1	16.0	19.3	-91.72	211.6	-390.0	525.4	495.1	30.32	17.331	
8,200.0	8,184.5	8,236.8	8,189.1	16.1	19.4	-91.72	211.6	-390.0	525.4	495.0	30.47	17.242	
8,300.0	8,284.5	8,336.8	8,289.1	16.2	19.4	-91.72	211.6	-390.0	525.4	494.8	30.63	17.155	
8,400.0	8,384.5	8,436.8	8,389.1	16.2	19.5	-91.72	211.6	-390.0	525.4	494.6	30.78	17.068	
8,500.0	8,484.5	8,536.8	8,489.1	16.3	19.5	-91.72	211.6	-390.0	525.4	494.5	30.93	16.986	
8,510.0	8,494.5	8,546.8	8,499.1	16.3	19.5	-91.72	211.6	-390.0	525.4	494.5	30.95	16.978	
8,600.0	8,584.5	8,633.7	8,585.8	16.4	19.6	-92.18	207.4	-390.0	525.6	494.6	31.02	16.943	
8,700.0	8,684.5	8,725.0	8,674.6	16.5	19.6	-94.43	186.7	-390.2	527.2	496.2	30.99	17.010	
8,800.0	8,784.5	8,804.9	8,747.9	16.6	19.6	-97.83	155.1	-390.5	532.2	501.3	30.93	17.209	
8,900.0	8,884.5	8,875.0	8,807.0	16.6	19.7	-101.79	117.6	-390.8	543.6	512.7	30.87	17.608	
9,000.0	8,984.5	8,929.7	8,849.0	16.7	19.7	-105.39	82.5	-391.1	563.6	532.7	30.90	18.240	
9,100.0	9,084.5	8,975.0	8,880.5	16.8	19.7	-108.61	50.0	-391.4	593.5	562.5	31.01	19.139	
9,200.0	9,184.5	9,013.9	8,905.0	16.9	19.8	-111.50	19.9	-391.7	633.5	602.3	31.21	20.302	
9,300.0	9,284.5	9,050.0	8,925.5	16.9	19.8	-114.23	-9.9	-392.0	682.9	651.4	31.46	21.705	
9,338.0	9,322.5	9,050.0	8,925.5	17.0	19.8	-114.23	-9.9	-392.0	703.9	672.2	31.62	22.257	
9,350.0	9,334.5	9,058.8	8,930.2	17.0	19.8	63.74	-17.3	-392.0	710.6	679.1	31.55	22.526	
9,375.0	9,359.5	9,065.7	8,933.7	17.0	19.8	61.42	-23.2	-392.1	724.8	693.1	31.62	22.921	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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 #704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 8570-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)			
9,400.0	9,384.3	9,075.0	8,938.4	17.0	19.8	59.03	-31.3	-392.1	738.9	707.2	31.69	23.316	
9,425.0	9,409.0	9,075.0	8,938.4	17.0	19.8	57.31	-31.3	-392.1	752.8	721.0	31.80	23.671	
9,450.0	9,433.5	9,087.6	8,944.5	17.0	19.8	54.93	-42.4	-392.2	766.6	734.7	31.87	24.054	
9,475.0	9,457.6	9,100.0	8,950.1	17.0	19.8	52.73	-53.4	-392.3	780.2	748.2	31.94	24.424	
9,500.0	9,481.4	9,100.0	8,950.1	17.0	19.8	51.25	-53.4	-392.3	793.5	761.4	32.07	24.739	
9,525.0	9,504.8	9,111.2	8,955.0	17.1	19.9	49.34	-63.5	-392.4	806.4	774.3	32.16	25.076	
9,550.0	9,527.6	9,125.0	8,960.6	17.1	19.9	47.48	-76.1	-392.5	819.1	786.9	32.24	25.406	
9,575.0	9,549.9	9,125.0	8,960.6	17.1	19.9	46.25	-76.1	-392.5	831.3	799.0	32.38	25.672	
9,600.0	9,571.5	9,136.0	8,964.9	17.1	19.9	44.72	-86.2	-392.6	843.2	810.7	32.48	25.958	
9,625.0	9,592.5	9,150.0	8,970.0	17.1	19.9	43.23	-99.3	-392.7	854.6	822.0	32.57	26.236	
9,650.0	9,612.8	9,150.0	8,970.0	17.1	19.9	42.25	-99.3	-392.7	865.5	832.8	32.73	26.448	
9,675.0	9,632.2	9,161.8	8,973.9	17.2	19.9	41.03	-110.3	-392.8	875.9	843.1	32.83	26.679	
9,700.0	9,650.8	9,175.0	8,978.1	17.2	19.9	39.90	-122.9	-393.0	885.9	852.9	32.94	26.897	
9,725.0	9,668.5	9,175.0	8,978.1	17.2	19.9	39.12	-122.9	-393.0	895.3	862.2	33.09	27.051	
9,750.0	9,685.2	9,188.3	8,981.9	17.2	19.9	38.17	-135.6	-393.1	904.0	870.8	33.20	27.227	
9,775.0	9,701.0	9,200.0	8,984.9	17.3	19.9	37.34	-146.9	-393.2	912.3	879.0	33.32	27.378	
9,800.0	9,715.7	9,200.0	8,984.9	17.3	19.9	36.76	-146.9	-393.2	919.9	886.5	33.48	27.474	
9,825.0	9,729.3	9,215.3	8,988.5	17.3	20.0	36.03	-161.9	-393.3	926.9	893.3	33.59	27.593	
9,850.0	9,741.9	9,225.0	8,990.5	17.3	20.0	35.46	-171.3	-393.4	933.3	899.6	33.72	27.676	
9,875.0	9,753.2	9,233.6	8,992.1	17.4	20.0	34.96	-179.8	-393.5	939.1	905.2	33.86	27.735	
9,900.0	9,763.4	9,250.0	8,994.8	17.4	20.0	34.47	-195.9	-393.6	944.2	910.3	33.97	27.798	
9,925.0	9,772.4	9,250.0	8,994.8	17.4	20.0	34.17	-195.9	-393.6	948.6	914.5	34.14	27.790	
9,950.0	9,780.2	9,261.3	8,996.3	17.4	20.0	33.84	-207.1	-393.7	952.4	918.1	34.26	27.795	
9,975.0	9,786.7	9,275.0	8,997.8	17.4	20.0	33.57	-220.7	-393.8	955.5	921.1	34.39	27.788	
10,000.0	9,791.9	9,275.0	8,997.8	17.5	20.0	33.40	-220.7	-393.8	958.0	923.4	34.55	27.724	
10,025.0	9,795.8	9,289.1	8,999.0	17.5	20.0	33.25	-234.8	-393.9	959.7	925.0	34.68	27.676	
10,050.0	9,798.5	9,300.0	8,999.5	17.5	20.1	33.16	-245.7	-394.0	960.8	925.9	34.81	27.602	
10,075.0	9,799.8	9,307.7	8,999.8	17.5	20.1	33.13	-253.4	-394.1	961.1	926.2	34.95	27.502	
10,088.0	9,800.0	9,312.6	8,999.9	17.5	20.1	33.14	-258.2	-394.2	961.0	926.0	35.02	27.446	
10,100.0	9,800.0	9,320.2	9,000.0	17.5	20.1	33.14	-265.8	-394.2	961.0	925.9	35.07	27.401	
10,108.1	9,800.0	9,320.2	9,000.0	17.5	20.1	33.14	-265.8	-394.2	960.9	925.8	35.12	27.358	
10,200.0	9,800.0	9,411.7	9,000.0	17.6	20.2	33.14	-357.4	-395.0	960.9	925.5	35.48	27.081	
10,300.0	9,800.0	9,511.7	9,000.0	17.7	20.4	33.15	-457.4	-395.9	961.0	925.0	35.95	26.732	
10,400.0	9,800.0	9,611.7	9,000.0	17.9	20.6	33.15	-557.4	-396.8	961.0	924.5	36.48	26.341	
10,500.0	9,800.0	9,711.7	9,000.0	18.1	20.8	33.15	-657.4	-397.7	961.1	924.0	37.09	25.913	
10,600.0	9,800.0	9,811.7	9,000.0	18.3	21.1	33.16	-757.4	-398.6	961.1	923.3	37.75	25.456	
10,700.0	9,800.0	9,911.7	9,000.0	18.7	21.4	33.16	-857.4	-399.5	961.1	922.6	38.48	24.975	
10,800.0	9,800.0	10,011.7	9,000.0	19.1	21.7	33.16	-957.4	-400.3	961.2	921.9	39.27	24.476	
10,900.0	9,800.0	10,111.7	9,000.0	19.5	22.1	33.17	-1,057.4	-401.2	961.2	921.1	40.11	23.965	
11,000.0	9,800.0	10,211.7	9,000.0	20.0	22.5	33.17	-1,157.4	-402.1	961.2	920.2	41.00	23.445	
11,100.0	9,800.0	10,311.7	9,000.0	20.6	22.9	33.17	-1,257.4	-403.0	961.3	919.3	41.94	22.921	
11,200.0	9,800.0	10,411.7	9,000.0	21.2	23.4	33.18	-1,357.4	-403.9	961.3	918.4	42.92	22.397	
11,300.0	9,800.0	10,511.7	9,000.0	21.9	23.9	33.18	-1,457.3	-404.8	961.3	917.4	43.94	21.876	
11,400.0	9,800.0	10,611.7	9,000.0	22.5	24.5	33.18	-1,557.3	-405.7	961.4	916.4	45.01	21.361	
11,500.0	9,800.0	10,711.7	9,000.0	23.2	25.1	33.18	-1,657.3	-406.5	961.4	915.3	46.10	20.853	
11,600.0	9,800.0	10,811.7	9,000.0	24.0	25.7	33.19	-1,757.3	-407.4	961.4	914.2	47.24	20.354	
11,700.0	9,800.0	10,911.7	9,000.0	24.7	26.3	33.19	-1,857.3	-408.3	961.5	913.1	48.40	19.866	
11,800.0	9,800.0	11,011.7	9,000.0	25.5	27.0	33.19	-1,957.3	-409.2	961.5	911.9	49.59	19.390	
11,900.0	9,800.0	11,111.7	9,000.0	26.2	27.7	33.20	-2,057.3	-410.1	961.5	910.7	50.81	18.925	
12,000.0	9,800.0	11,211.7	9,000.0	27.0	28.4	33.20	-2,157.3	-411.0	961.6	909.5	52.05	18.474	
12,100.0	9,800.0	11,311.7	9,000.0	27.8	29.1	33.20	-2,257.3	-411.9	961.6	908.3	53.31	18.036	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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 #704H - OWB - PWP0												Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 8570-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)			
12,200.0	9,800.0	11,411.7	9,000.0	28.7	29.8	33.21	-2,357.3	-412.7	961.6	907.0	54.60	17.612	
12,300.0	9,800.0	11,511.7	9,000.0	29.5	30.6	33.21	-2,457.3	-413.6	961.7	905.8	55.91	17.201	
12,400.0	9,800.0	11,611.7	9,000.0	30.3	31.4	33.21	-2,557.3	-414.5	961.7	904.5	57.23	16.803	
12,500.0	9,800.0	11,711.7	9,000.0	31.2	32.1	33.22	-2,657.3	-415.4	961.7	903.2	58.58	16.418	
12,600.0	9,800.0	11,811.7	9,000.0	32.0	32.9	33.22	-2,757.3	-416.3	961.8	901.8	59.94	16.047	
12,700.0	9,800.0	11,911.7	9,000.0	32.9	33.7	33.22	-2,857.3	-417.2	961.8	900.5	61.31	15.688	
12,800.0	9,800.0	12,011.7	9,000.0	33.7	34.5	33.22	-2,957.3	-418.1	961.8	899.1	62.70	15.341	
12,900.0	9,800.0	12,111.7	9,000.0	34.6	35.4	33.23	-3,057.3	-419.0	961.9	897.8	64.10	15.006	
13,000.0	9,800.0	12,211.7	9,000.0	35.5	36.2	33.23	-3,157.3	-419.8	961.9	896.4	65.51	14.683	
13,100.0	9,800.0	12,311.7	9,000.0	36.4	37.0	33.23	-3,257.3	-420.7	961.9	895.0	66.94	14.371	
13,200.0	9,800.0	12,411.7	9,000.0	37.2	37.9	33.24	-3,357.3	-421.6	962.0	893.6	68.37	14.069	
13,300.0	9,800.0	12,511.7	9,000.0	38.1	38.7	33.24	-3,457.3	-422.5	962.0	892.2	69.82	13.779	
13,400.0	9,800.0	12,611.7	9,000.0	39.0	39.6	33.24	-3,557.3	-423.4	962.0	890.8	71.27	13.498	
13,500.0	9,800.0	12,711.7	9,000.0	39.9	40.4	33.25	-3,657.3	-424.3	962.1	889.3	72.74	13.226	
13,600.0	9,800.0	12,811.7	9,000.0	40.8	41.3	33.25	-3,757.3	-425.2	962.1	887.9	74.21	12.964	
13,700.0	9,800.0	12,911.7	9,000.0	41.7	42.2	33.25	-3,857.3	-426.0	962.1	886.4	75.69	12.711	
13,800.0	9,800.0	13,011.7	9,000.0	42.6	43.0	33.26	-3,957.2	-426.9	962.2	885.0	77.18	12.466	
13,900.0	9,800.0	13,111.7	9,000.0	43.5	43.9	33.26	-4,057.2	-427.8	962.2	883.5	78.68	12.230	
14,000.0	9,800.0	13,211.7	9,000.0	44.4	44.8	33.26	-4,157.2	-428.7	962.2	882.1	80.18	12.001	
14,100.0	9,800.0	13,311.7	9,000.0	45.3	45.7	33.27	-4,257.2	-429.6	962.3	880.6	81.69	11.780	
14,200.0	9,800.0	13,411.7	9,000.0	46.2	46.6	33.27	-4,357.2	-430.5	962.3	879.1	83.20	11.566	
14,300.0	9,800.0	13,511.7	9,000.0	47.2	47.5	33.27	-4,457.2	-431.4	962.3	877.6	84.72	11.359	
14,400.0	9,800.0	13,611.7	9,000.0	48.1	48.4	33.27	-4,557.2	-432.2	962.4	876.1	86.25	11.159	
14,500.0	9,800.0	13,711.7	9,000.0	49.0	49.3	33.28	-4,657.2	-433.1	962.4	874.6	87.78	10.964	
14,600.0	9,800.0	13,811.7	9,000.0	49.9	50.2	33.28	-4,757.2	-434.0	962.4	873.1	89.31	10.776	
14,700.0	9,800.0	13,911.7	9,000.0	50.8	51.1	33.28	-4,857.2	-434.9	962.5	871.6	90.85	10.594	
14,800.0	9,800.0	14,011.7	9,000.0	51.8	52.0	33.29	-4,957.2	-435.8	962.5	870.1	92.39	10.418	
14,900.0	9,800.0	14,111.7	9,000.0	52.7	52.9	33.29	-5,057.2	-436.7	962.5	868.6	93.94	10.246	
15,000.0	9,800.0	14,211.7	9,000.0	53.6	53.8	33.29	-5,157.2	-437.6	962.6	867.1	95.49	10.080	
15,100.0	9,800.0	14,311.7	9,000.0	54.6	54.7	33.30	-5,257.2	-438.4	962.6	865.6	97.05	9.919	
15,200.0	9,800.0	14,411.7	9,000.0	55.5	55.6	33.30	-5,357.2	-439.3	962.7	864.0	98.61	9.762	
15,300.0	9,800.0	14,511.7	9,000.0	56.4	56.5	33.30	-5,457.2	-440.2	962.7	862.5	100.17	9.610	
15,400.0	9,800.0	14,611.7	9,000.0	57.3	57.5	33.31	-5,557.2	-441.1	962.7	861.0	101.74	9.463	
15,500.0	9,800.0	14,711.7	9,000.0	58.3	58.4	33.31	-5,657.2	-442.0	962.8	859.4	103.30	9.320	
15,600.0	9,800.0	14,811.7	9,000.0	59.2	59.3	33.31	-5,757.2	-442.9	962.8	857.9	104.88	9.180	
15,700.0	9,800.0	14,911.7	9,000.0	60.1	60.2	33.31	-5,857.2	-443.8	962.8	856.4	106.45	9.045	
15,800.0	9,800.0	15,011.7	9,000.0	61.1	61.1	33.32	-5,957.2	-444.6	962.9	854.8	108.03	8.913	
15,900.0	9,800.0	15,111.7	9,000.0	62.0	62.1	33.32	-6,057.2	-445.5	962.9	853.3	109.61	8.785	
16,000.0	9,800.0	15,211.7	9,000.0	63.0	63.0	33.32	-6,157.2	-446.4	962.9	851.7	111.19	8.660	
16,100.0	9,800.0	15,311.7	9,000.0	63.9	63.9	33.33	-6,257.2	-447.3	963.0	850.2	112.77	8.539	
16,200.0	9,800.0	15,411.7	9,000.0	64.8	64.8	33.33	-6,357.2	-448.2	963.0	848.6	114.36	8.421	
16,300.0	9,800.0	15,511.7	9,000.0	65.8	65.8	33.33	-6,457.1	-449.1	963.0	847.1	115.95	8.305	
16,400.0	9,800.0	15,611.7	9,000.0	66.7	66.7	33.34	-6,557.1	-450.0	963.1	845.5	117.54	8.193	
16,500.0	9,800.0	15,711.7	9,000.0	67.7	67.6	33.34	-6,657.1	-450.8	963.1	844.0	119.13	8.084	
16,600.0	9,800.0	15,811.7	9,000.0	68.6	68.6	33.34	-6,757.1	-451.7	963.1	842.4	120.73	7.978	
16,700.0	9,800.0	15,911.7	9,000.0	69.5	69.5	33.35	-6,857.1	-452.6	963.2	840.8	122.33	7.874	
16,800.0	9,800.0	16,011.7	9,000.0	70.5	70.4	33.35	-6,957.1	-453.5	963.2	839.3	123.93	7.772	
16,900.0	9,800.0	16,111.7	9,000.0	71.4	71.4	33.35	-7,057.1	-454.4	963.2	837.7	125.53	7.674	
17,000.0	9,800.0	16,211.7	9,000.0	72.4	72.3	33.35	-7,157.1	-455.3	963.3	836.1	127.13	7.577	
17,100.0	9,800.0	16,311.7	9,000.0	73.3	73.2	33.36	-7,257.1	-456.2	963.3	834.6	128.73	7.483	
17,200.0	9,800.0	16,411.7	9,000.0	74.3	74.2	33.36	-7,357.1	-457.0	963.3	833.0	130.34	7.391	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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 #704H - OWB - PWP0													Offset Site Error: 0.0 usft	
Survey Program:		0-r.5 MWD+IFR1, 8570-r.5 MWD+IFR1						Rule Assigned:					Offset Well Error: 0.0 usft	
Reference	Offset	Semi Major Axis		Offset Wellbore Centre		Distance		Warning						
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning	
17,300.0	9,800.0	16,511.7	9,000.0	75.2	75.1	33.36	-7,457.1	-457.9	963.4	831.4	131.94	7.301		
17,400.0	9,800.0	16,611.7	9,000.0	76.2	76.1	33.37	-7,557.1	-458.8	963.4	829.9	133.55	7.214		
17,500.0	9,800.0	16,711.7	9,000.0	77.1	77.0	33.37	-7,657.1	-459.7	963.4	828.3	135.16	7.128		
17,600.0	9,800.0	16,811.7	9,000.0	78.0	77.9	33.37	-7,757.1	-460.6	963.5	826.7	136.77	7.044		
17,700.0	9,800.0	16,911.7	9,000.0	79.0	78.9	33.38	-7,857.1	-461.5	963.5	825.1	138.38	6.963		
17,800.0	9,800.0	17,011.7	9,000.0	79.9	79.8	33.38	-7,957.1	-462.4	963.5	823.5	140.00	6.883		
17,900.0	9,800.0	17,111.7	9,000.0	80.9	80.8	33.38	-8,057.1	-463.2	963.6	822.0	141.61	6.804		
18,000.0	9,800.0	17,211.7	9,000.0	81.8	81.7	33.39	-8,157.1	-464.1	963.6	820.4	143.23	6.728		
18,100.0	9,800.0	17,311.7	9,000.0	82.8	82.6	33.39	-8,257.1	-465.0	963.6	818.8	144.84	6.653		
18,200.0	9,800.0	17,411.7	9,000.0	83.7	83.6	33.39	-8,357.1	-465.9	963.7	817.2	146.46	6.580		
18,300.0	9,800.0	17,511.7	9,000.0	84.7	84.5	33.39	-8,457.1	-466.8	963.7	815.6	148.08	6.508		
18,400.0	9,800.0	17,611.7	9,000.0	85.6	85.5	33.40	-8,557.1	-467.7	963.7	814.0	149.70	6.438		
18,500.0	9,800.0	17,711.7	9,000.0	86.6	86.4	33.40	-8,657.1	-468.6	963.8	812.5	151.32	6.369		
18,600.0	9,800.0	17,811.7	9,000.0	87.5	87.4	33.40	-8,757.1	-469.4	963.8	810.9	152.94	6.302		
18,700.0	9,800.0	17,911.7	9,000.0	88.5	88.3	33.41	-8,857.1	-470.3	963.8	809.3	154.57	6.236		
18,800.0	9,800.0	18,011.7	9,000.0	89.4	89.3	33.41	-8,957.1	-471.2	963.9	807.7	156.19	6.171		
18,900.0	9,800.0	18,111.7	9,000.0	90.4	90.2	33.41	-9,057.0	-472.1	963.9	806.1	157.82	6.108		
19,000.0	9,800.0	18,211.7	9,000.0	91.3	91.1	33.42	-9,157.0	-473.0	964.0	804.5	159.44	6.046		
19,100.0	9,800.0	18,311.7	9,000.0	92.3	92.1	33.42	-9,257.0	-473.9	964.0	802.9	161.07	5.985		
19,200.0	9,800.0	18,411.7	9,000.0	93.2	93.0	33.42	-9,357.0	-474.8	964.0	801.3	162.69	5.925		
19,300.0	9,800.0	18,511.7	9,000.0	94.2	94.0	33.43	-9,457.0	-475.6	964.1	799.7	164.32	5.867		
19,400.0	9,800.0	18,611.7	9,000.0	95.2	94.9	33.43	-9,557.0	-476.5	964.1	798.1	165.95	5.809		
19,500.0	9,800.0	18,711.7	9,000.0	96.1	95.9	33.43	-9,657.0	-477.4	964.1	796.5	167.58	5.753		
19,600.0	9,800.0	18,811.7	9,000.0	97.1	96.8	33.44	-9,757.0	-478.3	964.2	794.9	169.21	5.698		
19,700.0	9,800.0	18,911.7	9,000.0	98.0	97.8	33.44	-9,857.0	-479.2	964.2	793.4	170.84	5.644		
19,800.0	9,800.0	19,011.7	9,000.0	99.0	98.7	33.44	-9,957.0	-480.1	964.2	791.8	172.47	5.591		
19,900.0	9,800.0	19,111.7	9,000.0	99.9	99.7	33.44	-10,057.0	-481.0	964.3	790.2	174.11	5.538		
20,000.0	9,800.0	19,211.7	9,000.0	100.9	100.6	33.45	-10,157.0	-481.9	964.3	788.6	175.74	5.487		
20,100.0	9,800.0	19,311.7	9,000.0	101.8	101.6	33.45	-10,257.0	-482.7	964.3	787.0	177.37	5.437		
20,200.0	9,800.0	19,411.7	9,000.0	102.8	102.5	33.45	-10,357.0	-483.6	964.4	785.4	179.01	5.387		
20,300.0	9,800.0	19,511.7	9,000.0	103.7	103.5	33.46	-10,457.0	-484.5	964.4	783.8	180.64	5.339		
20,400.0	9,800.0	19,611.7	9,000.0	104.7	104.4	33.46	-10,557.0	-485.4	964.4	782.2	182.28	5.291		
20,500.0	9,800.0	19,711.7	9,000.0	105.7	105.4	33.46	-10,657.0	-486.3	964.5	780.6	183.91	5.244		
20,600.0	9,800.0	19,811.7	9,000.0	106.6	106.3	33.47	-10,757.0	-487.2	964.5	779.0	185.55	5.198		
20,700.0	9,800.0	19,911.7	9,000.0	107.6	107.3	33.47	-10,857.0	-488.1	964.5	777.4	187.18	5.153		
20,800.0	9,800.0	20,011.7	9,000.0	108.5	108.2	33.47	-10,957.0	-488.9	964.6	775.7	188.82	5.108		
20,900.0	9,800.0	20,111.7	9,000.0	109.5	109.2	33.48	-11,057.0	-489.8	964.6	774.1	190.46	5.065		
21,000.0	9,800.0	20,211.7	9,000.0	110.4	110.1	33.48	-11,157.0	-490.7	964.6	772.5	192.10	5.022		
21,100.0	9,800.0	20,311.7	9,000.0	111.4	111.1	33.48	-11,257.0	-491.6	964.7	770.9	193.74	4.979		
21,200.0	9,800.0	20,411.7	9,000.0	112.3	112.0	33.48	-11,357.0	-492.5	964.7	769.3	195.38	4.938		
21,300.0	9,800.0	20,511.7	9,000.0	113.3	113.0	33.49	-11,457.0	-493.4	964.7	767.7	197.02	4.897		
21,400.0	9,800.0	20,611.7	9,000.0	114.3	114.0	33.49	-11,556.9	-494.3	964.8	766.1	198.66	4.857		
21,500.0	9,800.0	20,711.7	9,000.0	115.2	114.9	33.49	-11,656.9	-495.1	964.8	764.5	200.30	4.817		
21,600.0	9,800.0	20,811.7	9,000.0	116.2	115.9	33.50	-11,756.9	-496.0	964.8	762.9	201.94	4.778		
21,700.0	9,800.0	20,911.7	9,000.0	117.1	116.8	33.50	-11,856.9	-496.9	964.9	761.3	203.58	4.740		
21,800.0	9,800.0	21,011.7	9,000.0	118.1	117.8	33.50	-11,956.9	-497.8	964.9	759.7	205.22	4.702		
21,900.0	9,800.0	21,111.7	9,000.0	119.0	118.7	33.51	-12,056.9	-498.7	964.9	758.1	206.86	4.665		
22,000.0	9,800.0	21,211.7	9,000.0	120.0	119.7	33.51	-12,156.9	-499.6	965.0	756.5	208.51	4.628		
22,100.0	9,800.0	21,311.7	9,000.0	121.0	120.6	33.51	-12,256.9	-500.5	965.0	754.9	210.15	4.592		
22,200.0	9,800.0	21,411.7	9,000.0	121.9	121.6	33.52	-12,356.9	-501.3	965.0	753.3	211.79	4.557		
22,300.0	9,800.0	21,511.7	9,000.0	122.9	122.5	33.52	-12,456.9	-502.2	965.1	751.6	213.44	4.522		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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 #704H - OWB - PWP0											Offset Site Error:	0.0 usft
Survey Program: 0-r.5 MWD+IFR1, 8570-r.5 MWD+IFR1											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 (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor
22,400.0	9,800.0	21,611.7	9,000.0	123.8	123.5	33.52	-12,556.9	-503.1	965.1	750.0	215.08	4.487
22,500.0	9,800.0	21,711.7	9,000.0	124.8	124.4	33.52	-12,656.9	-504.0	965.2	748.4	216.73	4.453
22,600.0	9,800.0	21,811.7	9,000.0	125.7	125.4	33.53	-12,756.9	-504.9	965.2	746.8	218.37	4.420
22,700.0	9,800.0	21,911.7	9,000.0	126.7	126.4	33.53	-12,856.9	-505.8	965.2	745.2	220.02	4.387
22,800.0	9,800.0	22,011.7	9,000.0	127.7	127.3	33.53	-12,956.9	-506.7	965.3	743.6	221.66	4.355
22,900.0	9,800.0	22,111.7	9,000.0	128.6	128.3	33.54	-13,056.9	-507.5	965.3	742.0	223.31	4.323
23,000.0	9,800.0	22,211.7	9,000.0	129.6	129.2	33.54	-13,156.9	-508.4	965.3	740.4	224.95	4.291
23,100.0	9,800.0	22,311.7	9,000.0	130.5	130.2	33.54	-13,256.9	-509.3	965.4	738.8	226.60	4.260
23,200.0	9,800.0	22,411.7	9,000.0	131.5	131.1	33.55	-13,356.9	-510.2	965.4	737.1	228.25	4.230
23,300.0	9,800.0	22,511.7	9,000.0	132.5	132.1	33.55	-13,456.9	-511.1	965.4	735.5	229.89	4.199
23,400.0	9,800.0	22,611.7	9,000.0	133.4	133.0	33.55	-13,556.9	-512.0	965.5	733.9	231.54	4.170
23,500.0	9,800.0	22,711.7	9,000.0	134.4	134.0	33.56	-13,656.9	-512.9	965.5	732.3	233.19	4.140
23,600.0	9,800.0	22,811.7	9,000.0	135.3	135.0	33.56	-13,756.9	-513.7	965.5	730.7	234.84	4.111
23,700.0	9,800.0	22,911.7	9,000.0	136.3	135.9	33.56	-13,856.9	-514.6	965.6	729.1	236.49	4.083
23,800.0	9,800.0	23,011.7	9,000.0	137.2	136.9	33.56	-13,956.9	-515.5	965.6	727.5	238.13	4.055
23,900.0	9,800.0	23,111.7	9,000.0	138.2	137.8	33.57	-14,056.8	-516.4	965.6	725.8	239.78	4.027
24,000.0	9,800.0	23,211.7	9,000.0	139.2	138.8	33.57	-14,156.8	-517.3	965.7	724.2	241.43	4.000
24,100.0	9,800.0	23,311.7	9,000.0	140.1	139.7	33.57	-14,256.8	-518.2	965.7	722.6	243.08	3.973
24,200.0	9,800.0	23,411.7	9,000.0	141.1	140.7	33.58	-14,356.8	-519.1	965.7	721.0	244.73	3.946
24,300.0	9,800.0	23,511.7	9,000.0	142.0	141.7	33.58	-14,456.8	-519.9	965.8	719.4	246.38	3.920
24,400.0	9,800.0	23,611.7	9,000.0	143.0	142.6	33.58	-14,556.8	-520.8	965.8	717.8	248.03	3.894
24,500.0	9,800.0	23,711.7	9,000.0	144.0	143.6	33.59	-14,656.8	-521.7	965.8	716.2	249.68	3.868
24,600.0	9,800.0	23,811.7	9,000.0	144.9	144.5	33.59	-14,756.8	-522.6	965.9	714.5	251.33	3.843
24,700.0	9,800.0	23,911.7	9,000.0	145.9	145.5	33.59	-14,856.8	-523.5	965.9	712.9	252.98	3.818
24,800.0	9,800.0	24,011.7	9,000.0	146.8	146.4	33.60	-14,956.8	-524.4	965.9	711.3	254.64	3.793
24,900.0	9,800.0	24,111.7	9,000.0	147.8	147.4	33.60	-15,056.8	-525.3	966.0	709.7	256.29	3.769
25,000.0	9,800.0	24,211.7	9,000.0	148.8	148.4	33.60	-15,156.8	-526.1	966.0	708.1	257.94	3.745
25,100.0	9,800.0	24,311.7	9,000.0	149.7	149.3	33.60	-15,256.8	-527.0	966.0	706.5	259.59	3.721
25,200.0	9,800.0	24,411.7	9,000.0	150.7	150.3	33.61	-15,356.8	-527.9	966.1	704.8	261.24	3.698
25,201.0	9,800.0	24,412.7	9,000.0	150.7	150.3	33.61	-15,357.8	-527.9	966.1	704.8	261.26	3.698
25,222.5	9,800.0	24,424.2	9,000.0	150.9	150.4	33.61	-15,369.3	-528.0	966.1	704.6	261.55	3.694 SF

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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
Rule Assigned:													
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Distance Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.0	0.0	0.0	3.0	173.37	-299.4	34.8	301.4				
100.0	100.0	99.0	99.0	0.8	3.0	173.42	-299.6	34.6	301.6	296.8	4.83	62.388	
200.0	200.0	198.8	198.8	1.4	3.1	173.52	-300.0	34.1	301.9	296.8	5.18	58.248	
300.0	300.0	301.6	301.6	1.9	3.1	173.70	-300.1	33.2	302.0	296.5	5.51	54.787	
400.0	400.0	402.0	402.0	2.2	3.1	173.90	-299.7	32.1	301.4	295.6	5.82	51.793	
500.0	500.0	501.9	501.8	2.6	3.2	174.13	-299.2	30.8	300.8	294.7	6.11	49.205	
600.0	600.0	610.0	609.9	2.8	3.2	174.01	-297.4	31.2	299.1	292.7	6.41	46.692	
700.0	700.0	718.1	717.8	3.1	3.2	172.88	-291.5	36.4	294.3	287.6	6.69	43.998	
800.0	800.0	822.6	821.5	3.3	3.2	170.89	-282.8	45.3	287.2	280.2	6.96	41.242	
900.0	900.0	924.9	922.6	3.6	3.3	168.27	-272.7	56.6	279.4	272.2	7.23	38.632	
1,000.0	1,000.0	1,027.4	1,023.2	3.8	3.3	164.53	-260.2	72.0	271.0	263.5	7.49	36.169	
1,100.0	1,100.0	1,128.0	1,121.2	4.0	3.4	159.95	-245.8	89.7	262.5	254.8	7.75	33.886	
1,200.0	1,200.0	1,225.7	1,216.2	4.2	3.5	155.11	-231.2	107.3	255.4	247.4	7.99	31.946	
1,300.0	1,300.0	1,323.8	1,311.7	4.4	3.5	150.24	-216.7	123.9	249.9	241.6	8.23	30.350	
1,400.0	1,400.0	1,419.2	1,404.5	4.6	3.6	145.11	-202.3	141.0	246.6	238.1	8.46	29.140	
1,450.0	1,450.0	1,466.3	1,450.2	4.6	3.7	142.46	-195.2	150.0	246.2	237.6	8.57	28.713 CC, ES	
1,500.0	1,500.0	1,513.4	1,495.9	4.7	3.7	139.83	-188.4	159.0	246.6	237.9	8.68	28.397	
1,600.0	1,600.0	1,611.0	1,590.8	5.0	3.9	104.20	-175.2	177.5	250.0	241.1	8.91	28.057	
1,700.0	1,699.8	1,710.0	1,687.4	5.3	4.0	100.34	-162.3	195.2	255.4	246.3	9.13	27.965	
1,800.0	1,799.5	1,809.1	1,783.7	5.6	4.1	97.04	-148.3	213.8	262.2	252.9	9.36	28.025	
1,868.2	1,867.2	1,875.7	1,848.2	5.7	4.2	95.16	-138.3	226.7	267.6	258.1	9.47	28.261	
1,900.0	1,898.7	1,905.8	1,877.5	5.8	4.2	94.46	-133.9	232.7	270.4	260.9	9.50	28.449	
2,000.0	1,997.9	2,003.7	1,972.4	6.0	4.4	92.38	-120.3	252.2	279.8	270.1	9.74	28.732	
2,100.0	2,097.1	2,110.8	2,076.7	6.3	4.5	90.61	-106.3	271.9	288.8	278.8	10.00	28.886	
2,200.0	2,196.3	2,221.7	2,185.4	6.5	4.7	89.13	-90.4	287.6	293.6	283.4	10.26	28.614	
2,300.0	2,295.4	2,320.7	2,282.6	6.8	4.9	88.02	-76.4	299.9	297.2	286.7	10.51	28.292	
2,400.0	2,394.6	2,418.1	2,377.8	7.2	5.0	86.58	-61.2	313.8	301.9	291.1	10.76	28.057	
2,500.0	2,493.8	2,518.5	2,475.8	7.5	5.2	84.97	-44.9	328.6	306.9	295.9	11.03	27.824	
2,600.0	2,593.0	2,618.0	2,572.1	7.8	5.4	82.88	-25.8	344.1	311.8	300.5	11.32	27.543	
2,700.0	2,692.1	2,720.2	2,671.3	8.1	5.5	80.86	-6.5	359.6	316.7	305.1	11.63	27.229	
2,800.0	2,791.3	2,820.4	2,768.8	8.5	5.7	79.09	12.0	373.8	321.3	309.4	11.95	26.892	
2,900.0	2,890.5	2,916.6	2,861.9	8.8	5.9	77.19	30.9	388.3	326.7	314.4	12.28	26.596	
3,000.0	2,989.7	3,019.8	2,961.6	9.2	6.1	74.99	52.5	404.4	332.6	319.9	12.67	26.257	
3,100.0	3,088.8	3,125.3	3,064.2	9.6	6.3	73.31	72.2	418.2	337.0	323.9	13.05	25.824	
3,200.0	3,188.0	3,225.0	3,161.6	9.9	6.5	71.96	90.1	430.0	340.6	327.2	13.42	25.387	
3,300.0	3,287.2	3,315.6	3,249.7	10.3	6.7	70.53	107.3	442.5	346.1	332.3	13.80	25.085	
3,379.1	3,365.6	3,395.2	3,326.8	10.6	6.8	69.14	123.2	454.4	351.4	337.3	14.13	24.878	
3,400.0	3,386.4	3,416.8	3,347.7	10.7	6.9	68.78	127.5	457.6	352.8	338.6	14.20	24.835	
3,500.0	3,485.7	3,520.2	3,448.3	11.0	7.1	67.11	147.3	471.5	358.9	344.2	14.69	24.435	
3,600.0	3,585.2	3,614.8	3,540.1	11.4	7.2	65.34	165.9	484.7	366.5	351.4	15.17	24.164	
3,700.0	3,684.9	3,719.3	3,641.7	11.8	7.5	63.28	186.0	498.8	374.9	359.2	15.71	23.857	
3,800.0	3,784.7	3,803.2	3,723.0	12.1	7.6	61.57	201.9	511.1	385.8	369.6	16.20	23.806	
3,900.0	3,884.5	3,900.5	3,817.1	12.4	7.8	59.42	220.8	527.4	400.1	383.3	16.79	23.823	
4,000.0	3,984.5	4,001.3	3,914.8	12.7	8.0	57.24	239.7	543.8	415.4	398.0	17.40	23.865	
4,100.0	4,084.5	4,097.9	4,008.5	13.0	8.2	55.19	257.5	559.2	431.9	413.9	17.98	24.015	
4,115.5	4,100.0	4,111.6	4,021.8	13.0	8.2	85.64	259.9	561.5	434.6	416.6	18.05	24.078	
4,200.0	4,184.5	4,196.7	4,104.4	13.0	8.4	83.91	274.4	575.7	450.2	431.8	18.48	24.367	
4,300.0	4,284.5	4,307.3	4,212.6	13.1	8.6	82.11	290.7	592.0	466.8	447.8	18.96	24.614	
4,400.0	4,384.5	4,406.9	4,310.4	13.2	8.8	80.72	304.2	605.3	482.0	462.7	19.37	24.881	
4,500.0	4,484.5	4,512.6	4,414.2	13.3	9.1	79.36	318.3	619.1	497.4	477.6	19.79	25.131	
4,600.0	4,584.5	4,625.5	4,525.7	13.3	9.3	78.18	331.2	630.9	509.9	489.7	20.18	25.265	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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:		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)	No-Go Distance (usft)	Separation Factor	
4,700.0	4,684.5	4,729.9	4,629.1	13.4	9.5	77.22	342.0	640.4	521.1	500.5	20.53	25.380	
4,800.0	4,784.5	4,835.8	4,734.2	13.5	9.7	76.37	352.0	649.0	531.1	510.2	20.86	25.459	
4,900.0	4,884.5	4,938.2	4,835.9	13.6	9.8	75.62	361.0	656.5	540.3	519.1	21.18	25.516	
5,000.0	4,984.5	5,043.8	4,940.9	13.6	10.0	74.92	369.8	663.6	549.0	527.5	21.48	25.554	
5,100.0	5,084.5	5,169.2	5,065.9	13.7	10.3	74.42	376.3	669.2	554.7	533.0	21.73	25.522	
5,200.0	5,184.5	5,280.2	5,176.9	13.8	10.4	74.32	377.8	670.9	556.5	534.6	21.92	25.387	
5,300.0	5,284.5	5,378.7	5,275.5	13.9	10.5	74.24	378.9	672.2	558.0	535.9	22.12	25.228	
5,400.0	5,384.5	5,491.3	5,388.1	13.9	10.6	74.31	378.5	673.0	558.6	536.4	22.22	25.139	
5,500.0	5,484.5	5,591.3	5,488.0	14.0	10.5	74.54	376.2	673.0	558.1	535.8	22.27	25.059	
5,600.0	5,584.5	5,690.6	5,587.3	14.1	10.4	74.76	374.0	673.1	557.6	535.2	22.33	24.974	
5,700.0	5,684.5	5,792.1	5,688.8	14.2	10.3	75.00	371.6	673.1	556.9	534.6	22.37	24.898	
5,800.0	5,784.5	5,894.3	5,791.0	14.2	10.2	75.19	369.5	672.8	556.1	533.7	22.40	24.825	
5,900.0	5,884.5	5,995.3	5,891.9	14.3	10.1	75.32	368.0	671.9	554.8	532.4	22.42	24.751	
6,000.0	5,984.5	6,095.1	5,991.7	14.4	10.0	75.35	367.3	670.6	553.4	531.0	22.43	24.672	
6,100.0	6,084.5	6,196.6	6,093.2	14.5	9.9	75.33	367.2	669.1	551.9	529.5	22.44	24.592	
6,200.0	6,184.5	6,297.2	6,193.8	14.6	9.8	75.28	367.2	667.3	550.3	527.8	22.46	24.495	
6,300.0	6,284.5	6,400.0	6,296.6	14.6	9.7	75.30	366.5	665.5	548.4	525.9	22.47	24.404	
6,400.0	6,384.5	6,500.0	6,396.5	14.7	9.6	75.37	365.4	663.6	546.2	523.7	22.48	24.294	
6,500.0	6,484.5	6,594.4	6,490.9	14.8	9.5	75.41	364.6	662.2	544.6	522.1	22.52	24.181	
6,600.0	6,584.5	6,693.7	6,590.2	14.9	9.4	75.41	364.3	661.2	543.6	521.0	22.56	24.099	
6,700.0	6,684.5	6,794.4	6,690.9	14.9	9.3	75.41	364.0	660.1	542.4	519.9	22.59	24.017	
6,800.0	6,784.5	6,894.2	6,790.7	15.0	9.3	75.42	363.7	659.0	541.3	518.6	22.63	23.913	
6,900.0	6,884.5	6,991.6	6,888.1	15.1	9.3	75.46	363.1	658.3	540.5	517.7	22.77	23.736	
7,000.0	6,984.5	7,092.1	6,988.6	15.2	9.5	75.59	361.8	658.0	539.8	516.8	23.00	23.473	
7,100.0	7,084.5	7,256.8	7,151.8	15.2	9.9	77.24	344.5	652.5	534.6	511.7	22.93	23.318	
7,200.0	7,184.5	7,408.5	7,290.9	15.3	10.3	83.24	287.0	638.1	517.4	494.9	22.52	22.972	
7,300.0	7,284.5	7,490.9	7,358.4	15.4	10.5	88.44	240.8	628.9	499.3	477.0	22.29	22.400	
7,400.0	7,384.5	7,548.4	7,402.0	15.5	10.6	92.77	203.7	624.1	489.8	467.6	22.19	22.073	
7,423.6	7,408.1	7,557.0	7,408.3	15.5	10.6	93.46	197.8	623.6	489.3	467.1	22.20	22.038 SF	
7,500.0	7,484.5	7,589.7	7,431.4	15.6	10.7	96.17	174.7	622.7	493.3	471.0	22.28	22.144	
7,600.0	7,584.5	7,632.2	7,459.5	15.6	10.8	99.83	142.8	623.5	511.1	488.7	22.45	22.770	
7,700.0	7,684.5	7,671.0	7,483.1	15.7	10.9	103.25	112.1	624.9	542.0	519.3	22.77	23.805	
7,800.0	7,784.5	7,704.8	7,501.8	15.8	10.9	106.26	84.0	626.8	585.1	561.8	23.23	25.184	
7,900.0	7,884.5	7,747.0	7,523.2	15.9	11.0	110.01	47.7	628.6	637.5	613.8	23.70	26.895	
8,000.0	7,984.5	7,778.3	7,537.7	15.9	11.1	112.78	20.0	629.3	697.8	673.6	24.26	28.760	
8,100.0	8,084.5	7,794.0	7,544.3	16.0	11.1	114.16	5.7	629.5	765.2	740.3	24.85	30.789	
8,200.0	8,184.5	7,818.0	7,553.5	16.1	11.1	116.24	-16.4	629.7	838.0	812.6	25.39	33.003	
8,300.0	8,284.5	7,842.0	7,561.9	16.2	11.2	118.29	-38.9	629.9	915.5	889.6	25.90	35.342	
8,400.0	8,384.5	7,842.0	7,561.9	16.2	11.2	118.29	-38.9	629.9	996.4	970.0	26.40	37.744	

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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			Rule Assigned:				Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor		
0.0	0.0	0.9	0.9	0.0	3.0	-175.23	-300.5	-25.1	301.5					
100.0	100.0	99.7	99.7	0.8	3.0	-175.17	-300.7	-25.4	301.8	296.9	4.83	62.478		
200.0	200.0	201.2	201.2	1.4	3.1	-175.07	-300.8	-25.9	301.9	296.7	5.18	58.291		
300.0	300.0	302.1	302.1	1.9	3.1	-175.06	-300.5	-26.0	301.6	296.1	5.51	54.775		
400.0	400.0	402.4	402.4	2.2	3.4	-175.00	-300.0	-26.2	301.2	295.0	6.14	49.056		
500.0	500.0	502.7	502.7	2.6	4.0	-174.77	-299.4	-27.4	300.6	293.5	7.09	42.399		
600.0	600.0	602.7	602.7	2.8	4.3	-174.31	-298.5	-29.7	300.0	292.4	7.63	39.318		
700.0	700.0	707.2	707.1	3.1	4.5	-173.45	-296.8	-34.1	298.8	290.8	8.03	37.205		
800.0	800.0	813.3	812.8	3.3	4.9	-171.97	-292.6	-41.3	295.8	287.3	8.45	35.024		
900.0	900.0	921.4	920.2	3.6	5.2	-169.86	-285.3	-51.0	290.5	281.6	8.83	32.882		
1,000.0	1,000.0	1,029.8	1,027.5	3.8	5.5	-167.30	-274.2	-61.8	282.3	273.2	9.19	30.729		
1,100.0	1,100.0	1,133.2	1,129.4	4.0	5.8	-164.42	-260.6	-72.7	272.1	262.5	9.55	28.491		
1,200.0	1,200.0	1,233.0	1,227.7	4.2	6.2	-161.29	-246.6	-83.5	261.7	251.8	9.89	26.451		
1,300.0	1,300.0	1,334.0	1,327.0	4.4	6.5	-157.86	-231.7	-94.3	251.5	241.3	10.23	24.592		
1,400.0	1,400.0	1,433.1	1,424.4	4.6	6.8	-154.28	-216.4	-104.2	241.3	230.8	10.55	22.866		
1,500.0	1,500.0	1,532.6	1,522.4	4.7	7.2	-150.91	-201.8	-112.2	231.9	221.0	10.87	21.334		
1,600.0	1,600.0	1,632.3	1,620.7	5.0	7.6	-177.92	-186.5	-120.3	224.5	213.2	11.28	19.901		
1,700.0	1,699.8	1,734.9	1,721.0	5.3	8.0	-173.03	-168.0	-131.0	220.9	209.2	11.66	18.950		
1,779.1	1,778.7	1,816.7	1,800.6	5.5	8.3	-168.89	-151.3	-139.3	220.0	208.0	11.95	18.405 CC		
1,800.0	1,799.5	1,838.2	1,821.5	5.6	8.4	-167.80	-146.7	-141.3	220.0	208.0	12.03	18.289 ES		
1,868.2	1,867.2	1,904.5	1,886.1	5.7	8.7	-164.61	-132.7	-147.3	221.7	209.4	12.24	18.106		
1,900.0	1,898.7	1,935.4	1,916.2	5.8	8.8	-163.28	-126.6	-149.8	223.1	210.8	12.33	18.102		
2,000.0	1,997.9	2,027.2	2,005.7	6.0	9.2	-159.17	-108.3	-159.1	230.0	217.2	12.78	17.993 SF		
2,100.0	2,097.1	2,117.3	2,093.1	6.3	9.6	-154.86	-90.3	-171.8	241.3	228.0	13.22	18.250		
2,200.0	2,196.3	2,207.4	2,180.1	6.5	10.0	-150.72	-73.0	-187.3	257.0	243.3	13.66	18.812		
2,300.0	2,295.4	2,304.9	2,274.1	6.8	10.4	-146.70	-54.7	-205.3	275.5	261.3	14.15	19.465		
2,400.0	2,394.6	2,401.6	2,367.4	7.2	10.8	-143.20	-36.3	-222.9	294.7	280.0	14.67	20.080		
2,500.0	2,493.8	2,496.9	2,459.1	7.5	11.3	-139.92	-16.9	-240.8	315.0	299.8	15.23	20.684		
2,600.0	2,593.0	2,592.3	2,550.4	7.8	11.7	-136.83	3.4	-259.3	336.7	320.9	15.82	21.283		
2,700.0	2,692.1	2,688.7	2,642.9	8.1	12.1	-134.25	22.9	-277.9	359.2	342.8	16.43	21.871		
2,800.0	2,791.3	2,784.8	2,735.4	8.5	12.6	-132.08	41.7	-296.2	382.4	365.3	17.04	22.442		
2,900.0	2,890.5	2,879.9	2,826.5	8.8	13.0	-129.92	62.1	-314.7	406.1	388.4	17.69	22.961		
3,000.0	2,989.7	2,983.0	2,924.9	9.2	13.5	-127.64	85.6	-334.4	429.8	411.4	18.39	23.366		
3,100.0	3,088.8	3,076.3	3,014.5	9.6	14.0	-126.10	104.6	-351.5	453.5	434.5	19.03	23.829		
3,200.0	3,188.0	3,174.4	3,109.3	9.9	14.4	-124.88	122.8	-369.4	477.5	457.9	19.67	24.275		
3,300.0	3,287.2	3,270.7	3,202.0	10.3	14.9	-123.65	141.8	-387.0	501.6	481.3	20.31	24.695		
3,379.1	3,365.6	3,346.7	3,275.1	10.6	15.3	-122.70	157.3	-400.9	520.9	500.1	20.81	25.033		
3,400.0	3,386.4	3,367.0	3,294.7	10.7	15.4	-122.51	161.4	-404.6	526.0	505.1	20.93	25.128		
3,500.0	3,485.7	3,466.6	3,390.7	11.0	15.8	-121.62	180.4	-422.6	549.7	528.1	21.61	25.434		
3,600.0	3,585.2	3,570.4	3,490.5	11.4	16.3	-120.36	202.8	-440.4	571.8	549.4	22.37	25.566		
3,700.0	3,684.9	3,675.7	3,591.6	11.8	16.8	-118.82	227.3	-457.0	592.2	569.1	23.10	25.641		
3,800.0	3,784.7	3,781.3	3,693.1	12.1	17.3	-117.19	252.3	-471.8	610.5	586.6	23.83	25.619		
3,900.0	3,884.5	3,879.8	3,788.3	12.4	17.8	-115.77	274.2	-485.1	627.8	603.3	24.51	25.613		
4,000.0	3,984.5	3,977.1	3,882.5	12.7	18.3	-114.40	294.7	-498.2	644.7	619.5	25.20	25.589		
4,100.0	4,084.5	4,075.6	3,978.0	13.0	18.7	-113.07	314.2	-511.6	661.4	635.5	25.89	25.546		
4,115.5	4,100.0	4,091.4	3,993.4	13.0	18.8	-82.12	317.2	-513.8	663.9	637.9	25.99	25.542		
4,200.0	4,184.5	4,180.1	4,080.0	13.0	19.2	-80.94	332.8	-525.6	677.4	650.8	26.60	25.467		
4,300.0	4,284.5	4,312.4	4,209.8	13.1	19.8	-79.42	353.5	-540.3	691.3	663.9	27.40	25.228		
4,400.0	4,384.5	4,405.7	4,301.7	13.2	20.2	-78.50	366.5	-548.5	702.7	674.7	28.01	25.088		
4,500.0	4,484.5	4,510.3	4,405.2	13.3	20.7	-77.75	378.0	-558.5	714.3	685.7	28.63	24.954		
4,600.0	4,584.5	4,632.9	4,527.0	13.3	21.2	-77.01	389.5	-567.7	723.7	694.4	29.23	24.754		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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		Rule Assigned:		Warning	
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	+N/-S (usft)	+E/-W (usft)	Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	
4,700.0	4,684.5	4,739.9	4,633.4	13.4	21.6	-76.43	398.5	-573.8	731.2	701.5	29.77	24.564	
4,800.0	4,784.5	4,845.0	4,738.1	13.5	22.0	-75.94	406.3	-579.2	738.0	707.7	30.28	24.370	
4,900.0	4,884.5	4,963.1	4,855.9	13.6	22.5	-75.47	413.8	-584.0	743.5	712.8	30.75	24.183	
5,000.0	4,984.5	5,086.3	4,978.9	13.6	22.8	-75.14	418.6	-585.5	745.7	714.7	31.02	24.041	
5,100.0	5,084.5	5,185.2	5,077.8	13.7	23.1	-74.95	421.2	-585.9	746.7	715.4	31.29	23.867	
5,200.0	5,184.5	5,287.6	5,180.1	13.8	23.3	-74.78	423.6	-586.1	747.6	716.0	31.53	23.707	
5,300.0	5,284.5	5,388.3	5,280.8	13.9	23.6	-74.63	425.7	-586.2	748.2	716.4	31.77	23.549	
5,400.0	5,384.5	5,486.9	5,379.4	13.9	23.8	-74.53	427.2	-586.5	748.9	716.9	32.04	23.377	
5,500.0	5,484.5	5,587.4	5,479.9	14.0	24.1	-74.44	428.6	-587.0	749.7	717.4	32.31	23.203	
5,600.0	5,584.5	5,688.0	5,580.5	14.1	24.3	-74.35	429.8	-587.3	750.3	717.8	32.57	23.035	
5,700.0	5,684.5	5,786.7	5,679.2	14.2	24.5	-74.27	431.0	-587.7	751.0	718.2	32.86	22.856	
5,800.0	5,784.5	5,891.2	5,783.7	14.2	24.7	-74.21	432.0	-588.2	751.8	718.7	33.08	22.725	
5,900.0	5,884.5	5,996.1	5,886.6	14.3	24.9	-74.13	432.9	-587.7	751.6	718.4	33.16	22.666	
6,000.0	5,984.5	6,094.2	5,986.7	14.4	25.0	-74.04	434.0	-587.0	751.2	718.0	33.24	22.596	
6,058.5	6,043.0	6,151.5	6,043.9	14.4	25.0	-73.99	434.6	-586.8	751.2	717.8	33.32	22.543	
6,100.0	6,084.5	6,192.2	6,084.7	14.5	25.1	-73.98	434.7	-586.8	751.2	717.8	33.38	22.506	
6,200.0	6,184.5	6,301.9	6,194.3	14.6	25.0	-74.11	432.9	-586.8	750.8	717.4	33.36	22.504	
6,300.0	6,284.5	6,402.3	6,294.7	14.6	24.7	-74.34	429.7	-586.4	749.5	716.2	33.28	22.520	
6,400.0	6,384.5	6,504.2	6,396.5	14.7	24.5	-74.54	426.8	-585.7	748.1	714.9	33.18	22.548	
6,500.0	6,484.5	6,594.6	6,486.9	14.8	24.4	-74.68	424.9	-585.5	747.2	714.0	33.21	22.498	
6,529.1	6,513.6	6,622.1	6,514.5	14.8	24.3	-74.72	424.4	-585.6	747.2	714.0	33.25	22.476	
6,600.0	6,584.5	6,689.5	6,581.8	14.9	24.2	-74.83	423.0	-586.1	747.4	714.1	33.32	22.429	
6,700.0	6,684.5	6,786.2	6,678.5	14.9	24.2	-74.97	421.3	-587.3	748.1	714.6	33.50	22.332	
6,800.0	6,784.5	6,886.0	6,778.3	15.0	24.2	-75.11	419.8	-588.6	749.0	715.3	33.70	22.227	
6,900.0	6,884.5	6,984.9	6,877.2	15.1	24.2	-75.25	418.4	-590.2	750.2	716.2	33.95	22.095	
7,000.0	6,984.5	7,100.0	6,992.1	15.2	24.4	-75.63	413.5	-591.6	750.3	716.0	34.28	21.889	
7,100.0	7,084.5	7,276.8	7,163.3	15.2	24.6	-78.57	374.2	-590.9	744.9	711.5	33.38	22.318	
7,200.0	7,184.5	7,378.2	7,252.0	15.3	24.7	-82.32	325.1	-589.3	734.1	701.2	32.85	22.345	
7,300.0	7,284.5	7,470.8	7,324.3	15.4	24.8	-86.83	267.5	-589.3	726.7	694.4	32.27	22.516	
7,384.7	7,369.2	7,540.7	7,370.1	15.5	24.8	-90.99	214.9	-589.1	724.4	692.6	31.79	22.788	
7,400.0	7,384.5	7,553.1	7,377.5	15.5	24.8	-91.78	204.9	-588.9	724.5	692.8	31.69	22.859	
7,500.0	7,484.5	7,618.2	7,414.8	15.6	24.9	-95.99	151.6	-587.2	729.7	698.5	31.25	23.348	
7,600.0	7,584.5	7,667.0	7,439.8	15.6	24.9	-99.27	109.8	-585.2	744.3	713.4	30.94	24.060	
7,700.0	7,684.5	7,707.4	7,459.1	15.7	24.9	-102.03	74.3	-583.4	768.8	738.2	30.64	25.091	
7,800.0	7,784.5	7,743.0	7,475.2	15.8	24.9	-104.45	42.5	-582.1	803.1	772.7	30.36	26.454	
7,900.0	7,884.5	7,778.5	7,490.6	15.9	25.0	-106.85	10.6	-580.8	845.9	815.8	30.07	28.129	
8,000.0	7,984.5	7,790.0	7,495.5	15.9	25.0	-107.61	0.2	-580.4	896.5	866.5	29.99	29.892	
8,100.0	8,084.5	7,819.8	7,507.4	16.0	25.0	-109.60	-27.1	-579.4	953.7	923.8	29.82	31.978	

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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	Rule Assigned:										
Measured Depth (usft)	Vertical Depth (usft)	Measured Depth (usft)	Vertical Depth (usft)	Reference (usft)	Offset (usft)	Highside Toolface (°)	Offset Wellbore Centre +N/-S (usft)	+E/-W (usft)	Distance Between Centres (usft)	Between Ellipses (usft)	No-Go Distance (usft)	Separation Factor	Warning
0.0	0.0	0.5	0.5	0.0	3.0	179.08	-299.9	4.8	299.9				
100.0	100.0	99.5	99.5	0.8	3.0	179.20	-300.0	4.2	300.1	295.2	4.83	62.143	
200.0	200.0	200.9	200.8	1.4	3.1	179.66	-300.0	1.8	300.0	294.9	5.17	58.021	
240.4	240.4	241.0	240.9	1.6	3.1	179.90	-300.0	0.5	300.0	294.7	5.30	56.620	
300.0	300.0	300.1	300.0	1.9	3.2	-179.73	-300.1	-1.4	300.1	294.5	5.51	54.463	
400.0	400.0	400.1	399.9	2.2	3.3	-178.99	-300.2	-5.3	300.3	294.4	5.85	51.370	
500.0	500.0	500.2	500.0	2.6	3.5	-178.22	-300.3	-9.3	300.5	294.3	6.18	48.627	
600.0	600.0	600.6	600.3	2.8	3.7	-177.44	-300.4	-13.4	300.7	294.2	6.51	46.179	
700.0	700.0	704.7	704.3	3.1	3.8	-177.30	-299.6	-14.1	300.0	293.2	6.84	43.837	
800.0	800.0	803.1	802.8	3.3	3.8	-177.44	-298.6	-13.4	298.9	291.7	7.18	41.647	
900.0	900.0	901.6	901.2	3.6	3.8	-177.62	-298.3	-12.4	298.5	291.0	7.51	39.752	
1,000.0	1,000.0	1,002.5	1,002.1	3.8	3.9	-177.89	-297.9	-11.0	298.1	290.3	7.84	38.009	
1,100.0	1,100.0	1,102.8	1,102.4	4.0	3.9	-178.23	-297.5	-9.2	297.6	289.4	8.18	36.402	
1,200.0	1,200.0	1,204.0	1,203.5	4.2	4.0	-178.58	-296.7	-7.4	296.8	288.3	8.52	34.854	
1,300.0	1,300.0	1,304.7	1,304.3	4.4	4.1	-178.84	-295.7	-6.0	295.8	286.9	8.87	33.361	
1,400.0	1,400.0	1,407.8	1,407.4	4.6	4.3	-179.31	-293.8	-3.5	293.9	284.6	9.23	31.843	
1,500.0	1,500.0	1,513.3	1,512.7	4.7	4.5	179.88	-290.4	0.6	290.6	281.0	9.61	30.258	
1,600.0	1,600.0	1,621.6	1,620.8	5.0	4.8	148.51	-284.2	4.9	286.5	276.4	10.09	28.395	
1,700.0	1,699.8	1,727.3	1,726.0	5.3	5.1	148.38	-274.9	8.5	282.1	271.5	10.61	26.587	
1,797.7	1,797.1	1,824.3	1,822.4	5.6	5.4	148.28	-266.2	13.4	280.7	269.5	11.14	25.200	
1,800.0	1,799.5	1,826.7	1,824.8	5.6	5.4	148.28	-266.0	13.5	280.7	269.5	11.15	25.171	
1,868.2	1,867.2	1,901.4	1,899.0	5.7	5.7	148.47	-258.4	17.0	280.5	269.0	11.48	24.424	
1,900.0	1,898.7	1,933.9	1,931.3	5.8	5.8	148.62	-254.7	18.4	280.4	268.8	11.63	24.117	
2,000.0	1,997.9	2,044.5	2,040.8	6.0	6.2	149.78	-239.9	20.0	278.0	265.8	12.23	22.730	
2,100.0	2,097.1	2,143.8	2,139.0	6.3	6.5	151.73	-224.5	17.2	273.7	260.8	12.88	21.240	
2,200.0	2,196.3	2,246.9	2,240.7	6.5	6.9	153.95	-208.5	13.7	269.8	256.2	13.57	19.879	
2,300.0	2,295.4	2,346.8	2,339.1	6.8	7.3	156.27	-191.7	9.9	264.9	250.6	14.28	18.546	
2,400.0	2,394.6	2,446.6	2,437.4	7.2	7.7	158.66	-174.9	6.2	260.5	245.5	15.01	17.354	
2,500.0	2,493.8	2,546.3	2,535.6	7.5	8.1	161.06	-157.9	2.8	256.3	240.5	15.75	16.275	
2,600.0	2,593.0	2,651.3	2,638.9	7.8	8.6	163.35	-138.9	1.0	251.2	234.7	16.50	15.220	
2,700.0	2,692.1	2,750.0	2,735.8	8.1	9.0	165.40	-120.3	0.3	245.4	228.1	17.27	14.209	
2,800.0	2,791.3	2,846.5	2,830.7	8.5	9.5	167.53	-102.9	-0.7	240.8	222.8	18.03	13.358	
2,900.0	2,890.5	2,944.0	2,926.7	8.8	9.9	169.85	-86.5	-2.7	238.1	219.3	18.77	12.686	
3,000.0	2,989.7	3,049.0	3,030.0	9.2	10.4	172.60	-67.1	-4.8	234.3	214.8	19.50	12.015	
3,100.0	3,088.8	3,150.8	3,129.7	9.6	10.9	175.39	-47.2	-6.6	229.9	209.6	20.20	11.376	
3,200.0	3,188.0	3,253.3	3,230.1	9.9	11.3	177.86	-26.3	-5.9	224.0	203.1	20.92	10.710	
3,300.0	3,287.2	3,351.7	3,326.4	10.3	11.8	-179.66	-6.1	-5.1	218.5	196.8	21.61	10.110	
3,379.1	3,365.6	3,427.5	3,400.8	10.6	12.2	-177.72	8.8	-4.8	215.2	193.1	22.12	9.730	
3,400.0	3,386.4	3,447.9	3,420.8	10.7	12.3	-177.18	12.6	-4.7	214.5	192.2	22.24	9.645	
3,500.0	3,485.7	3,552.0	3,523.0	11.0	12.8	-174.39	32.5	-4.5	210.1	187.3	22.84	9.201	
3,600.0	3,585.2	3,652.6	3,621.2	11.4	13.3	-171.43	54.0	-2.7	201.8	178.4	23.38	8.631	
3,700.0	3,684.9	3,749.5	3,716.1	11.8	13.7	-168.39	73.8	-1.1	193.0	169.2	23.85	8.094	
3,800.0	3,784.7	3,847.3	3,811.9	12.1	14.2	-165.07	93.0	0.4	183.9	159.7	24.20	7.598	
3,900.0	3,884.5	3,944.7	3,907.6	12.4	14.7	-161.36	111.3	1.5	174.6	150.2	24.42	7.153	
4,000.0	3,984.5	4,045.7	4,006.7	12.7	15.2	-156.79	130.6	2.8	164.4	140.0	24.42	6.733	
4,100.0	4,084.5	4,142.1	4,101.1	13.0	15.7	-151.22	150.1	3.9	153.2	129.2	24.09	6.360	
4,115.5	4,100.0	4,156.9	4,115.7	13.0	15.7	-119.55	153.0	3.9	151.7	127.7	24.00	6.320	
4,200.0	4,184.5	4,237.5	4,194.7	13.0	16.1	-114.00	168.7	3.3	144.7	121.3	23.35	6.196	
4,300.0	4,284.5	4,333.7	4,289.1	13.1	16.6	-106.86	186.8	1.4	139.9	117.4	22.46	6.229	
4,400.0	4,384.5	4,431.3	4,385.3	13.2	17.1	-100.12	203.1	-0.9	138.3	116.6	21.71	6.370 ES	
4,408.8	4,393.3	4,439.8	4,393.8	13.2	17.1	-99.54	204.5	-1.2	138.3	116.6	21.65	6.386 CC	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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)			
4,500.0	4,484.5	4,530.4	4,483.1	13.3	17.5	-93.38	219.2	-3.4	138.9	117.7	21.19	6.556	
4,600.0	4,584.5	4,631.2	4,582.4	13.3	18.0	-86.26	236.6	-5.0	140.5	119.5	20.97	6.699	
4,700.0	4,684.5	4,730.8	4,680.2	13.4	18.5	-78.84	255.0	-4.9	142.9	121.7	21.19	6.742	
4,800.0	4,784.5	4,829.3	4,777.0	13.5	19.0	-71.72	273.6	-4.5	147.4	125.5	21.90	6.729	
4,900.0	4,884.5	4,927.8	4,873.9	13.6	19.5	-65.30	291.5	-4.2	153.8	130.8	22.98	6.693	
5,000.0	4,984.5	5,026.1	4,970.6	13.6	20.0	-59.68	308.9	-4.1	162.0	137.7	24.26	6.676	
5,100.0	5,084.5	5,126.3	5,069.4	13.7	20.5	-54.68	325.9	-3.8	171.1	145.5	25.63	6.676	
5,200.0	5,184.5	5,225.3	5,167.0	13.8	20.9	-50.33	342.2	-3.2	180.7	153.7	26.99	6.697	
5,300.0	5,284.5	5,328.2	5,268.6	13.9	21.4	-46.59	357.9	-2.7	190.6	162.3	28.27	6.740	
5,400.0	5,384.5	5,429.0	5,368.7	13.9	21.9	-43.91	370.1	-2.2	198.8	169.4	29.36	6.770	
5,500.0	5,484.5	5,530.5	5,469.6	14.0	22.4	-41.68	381.3	-1.8	206.6	176.3	30.36	6.806	
5,600.0	5,584.5	5,631.1	5,569.8	14.1	22.8	-39.94	391.1	-1.9	214.1	182.8	31.27	6.846	
5,700.0	5,684.5	5,731.3	5,669.6	14.2	23.3	-38.55	399.8	-2.2	221.0	188.9	32.11	6.884	
5,800.0	5,784.5	5,834.3	5,772.2	14.2	23.7	-37.50	407.4	-2.9	227.2	194.4	32.86	6.916	
5,900.0	5,884.5	5,934.9	5,872.7	14.3	24.1	-36.76	413.5	-3.8	232.6	199.1	33.55	6.934	
6,000.0	5,984.5	6,036.5	5,974.2	14.4	24.5	-36.24	418.7	-5.1	237.5	203.3	34.19	6.946	
6,100.0	6,084.5	6,138.9	6,076.4	14.5	24.9	-35.93	422.9	-6.5	241.6	206.8	34.77	6.949	
6,200.0	6,184.5	6,239.7	6,177.2	14.6	25.2	-35.81	426.0	-8.0	245.0	209.6	35.31	6.938	
6,300.0	6,284.5	6,342.4	6,279.8	14.6	25.6	-35.83	428.2	-9.8	247.8	212.0	35.78	6.925	
6,400.0	6,384.5	6,445.3	6,382.7	14.7	25.7	-36.21	428.5	-12.0	249.2	213.2	36.06	6.912	
6,500.0	6,484.5	6,544.8	6,482.2	14.8	25.8	-36.68	428.1	-14.3	250.3	214.0	36.29	6.895	
6,600.0	6,584.5	6,642.8	6,580.2	14.9	25.9	-37.17	427.7	-16.7	251.4	214.9	36.56	6.878	
6,700.0	6,684.5	6,745.5	6,682.9	14.9	26.0	-37.67	427.4	-19.3	252.7	216.0	36.77	6.874	
6,800.0	6,784.5	6,845.2	6,782.5	15.0	26.0	-38.15	427.0	-21.6	253.8	216.8	37.01	6.857	
6,900.0	6,884.5	6,945.5	6,882.7	15.1	26.1	-38.64	426.4	-23.9	254.8	217.5	37.24	6.842	
7,000.0	6,984.5	7,045.1	6,982.3	15.2	26.2	-39.14	425.7	-26.2	255.7	218.2	37.46	6.826	
7,100.0	7,084.5	7,145.7	7,082.9	15.2	26.2	-39.64	424.9	-28.4	256.4	218.8	37.65	6.810	
7,200.0	7,184.5	7,246.1	7,183.3	15.3	26.3	-40.18	423.9	-30.7	257.2	219.4	37.84	6.797	
7,300.0	7,284.5	7,348.7	7,285.9	15.4	26.4	-40.81	422.2	-33.0	257.3	219.4	37.95	6.781	
7,400.0	7,384.5	7,453.6	7,390.6	15.5	26.5	-41.91	418.2	-36.1	256.5	218.6	37.91	6.766	
7,500.0	7,484.5	7,580.3	7,515.9	15.6	26.7	-45.56	401.5	-42.3	250.6	213.8	36.76	6.817	
7,600.0	7,584.5	7,725.1	7,648.9	15.6	26.8	-57.30	346.2	-49.8	228.9	195.5	33.43	6.848	
7,700.0	7,684.5	7,832.6	7,735.9	15.7	26.9	-73.18	283.3	-49.7	199.7	168.6	31.14	6.415	
7,800.0	7,784.5	7,910.8	7,793.1	15.8	27.0	-89.16	230.1	-48.6	184.0	153.5	30.54	6.025	
7,816.8	7,801.3	7,923.4	7,801.8	15.8	27.0	-92.00	221.0	-48.3	183.6	153.1	30.54	6.011 SF	
7,900.0	7,884.5	7,975.7	7,835.2	15.9	27.0	-104.38	180.8	-46.5	194.1	163.3	30.79	6.302	
8,000.0	7,984.5	8,024.6	7,862.9	15.9	27.1	-115.81	140.5	-44.4	233.9	203.2	30.71	7.616	
8,100.0	8,084.5	8,065.5	7,883.9	16.0	27.1	-124.40	105.5	-42.8	294.9	264.5	30.34	9.720	
8,200.0	8,184.5	8,097.0	7,899.2	16.1	27.1	-130.16	78.0	-41.9	368.0	338.1	29.90	12.307	
8,300.0	8,284.5	8,129.1	7,913.5	16.2	27.1	-135.30	49.3	-41.1	448.2	418.4	29.77	15.056	
8,400.0	8,384.5	8,144.0	7,919.6	16.2	27.1	-137.49	35.6	-40.6	533.2	503.7	29.48	18.084	
8,500.0	8,484.5	8,175.0	7,931.2	16.3	27.2	-141.64	6.9	-39.3	621.1	591.4	29.65	20.948	
8,600.0	8,584.5	8,192.0	7,937.1	16.4	27.2	-143.71	-9.0	-38.4	711.2	681.5	29.69	23.951	
8,700.0	8,684.5	8,208.8	7,942.5	16.5	27.2	-145.62	-24.9	-37.4	803.0	773.1	29.83	26.918	
8,800.0	8,784.5	8,221.9	7,946.4	16.6	27.2	-147.03	-37.3	-36.5	896.0	866.0	29.99	29.873	
8,900.0	8,884.5	8,239.0	7,951.1	16.6	27.2	-148.76	-53.7	-35.3	990.1	959.9	30.24	32.747	

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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: Reference		0-r.5 MWD+IFR1+SAG+FDIR Offset		Semi Major Axis		Highside Toolface (°)	Offset Wellbore Centre		Rule Assigned: Distance			Offset Well Error: 0.0 usft		
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)	Separation Factor	Warning	
0.0	0.0	0.0	0.0	0.0	0.0	-91.15	-0.6	-29.9	29.9					
100.0	100.0	100.0	100.0	0.8	0.8	-91.15	-0.6	-29.9	29.9	27.9	1.99	15.019		
200.0	200.0	200.0	200.0	1.4	1.4	-91.15	-0.6	-29.9	29.9	26.6	3.31	9.031		
300.0	300.0	300.0	300.0	1.9	1.9	-91.15	-0.6	-29.9	29.9	25.7	4.20	7.128		
400.0	400.0	400.0	400.0	2.2	2.2	-91.15	-0.6	-29.9	29.9	25.0	4.91	6.088		
500.0	500.0	500.0	500.0	2.6	2.6	-91.15	-0.6	-29.9	29.9	24.4	5.53	5.405		
600.0	600.0	600.0	600.0	2.8	2.8	-91.15	-0.6	-29.9	29.9	23.8	6.09	4.910		
700.0	700.0	700.0	700.0	3.1	3.1	-91.15	-0.6	-29.9	29.9	23.3	6.60	4.530		
800.0	800.0	800.0	800.0	3.3	3.3	-91.15	-0.6	-29.9	29.9	22.8	7.08	4.226		
900.0	900.0	900.0	900.0	3.6	3.6	-91.15	-0.6	-29.9	29.9	22.4	7.52	3.975		
1,000.0	1,000.0	1,000.0	1,000.0	3.8	3.8	-91.15	-0.6	-29.9	29.9	22.0	7.95	3.763		
1,100.0	1,100.0	1,100.0	1,100.0	4.0	4.0	-91.15	-0.6	-29.9	29.9	21.6	8.35	3.581		
1,200.0	1,200.0	1,200.0	1,200.0	4.2	4.2	-91.15	-0.6	-29.9	29.9	21.2	8.74	3.422		
1,300.0	1,300.0	1,300.0	1,300.0	4.4	4.4	-91.15	-0.6	-29.9	29.9	20.8	9.11	3.282		
1,400.0	1,400.0	1,400.0	1,400.0	4.6	4.6	-91.15	-0.6	-29.9	29.9	20.4	9.47	3.157		
1,500.0	1,500.0	1,500.0	1,500.0	4.7	4.7	-91.15	-0.6	-29.9	29.9	20.1	9.82	3.045 CC, ES, SF		
1,600.0	1,600.0	1,598.9	1,598.9	5.0	5.0	-123.72	-0.2	-31.6	32.5	22.3	10.27	3.167		
1,700.0	1,699.8	1,697.4	1,697.2	5.3	5.2	-127.76	0.9	-36.5	40.5	29.8	10.70	3.787		
1,800.0	1,799.5	1,794.9	1,794.4	5.6	5.5	-131.76	2.7	-44.7	54.1	42.9	11.12	4.861		
1,868.2	1,867.2	1,860.7	1,859.7	5.7	5.6	-133.94	4.3	-52.0	66.5	55.2	11.36	5.857		
1,900.0	1,898.7	1,891.1	1,889.9	5.8	5.7	-134.79	5.1	-55.9	73.1	61.6	11.45	6.382		
2,000.0	1,997.9	1,986.0	1,983.7	6.0	5.9	-136.06	8.2	-70.1	95.7	83.8	11.82	8.090		
2,100.0	2,097.1	2,082.6	2,078.8	6.3	6.1	-136.38	11.8	-86.4	120.1	107.9	12.18	9.859		
2,200.0	2,196.3	2,179.5	2,174.3	6.5	6.2	-136.58	15.4	-102.9	144.5	131.9	12.54	11.524		
2,300.0	2,295.4	2,276.5	2,269.8	6.8	6.4	-136.73	19.1	-119.3	168.9	156.0	12.91	13.084		
2,400.0	2,394.6	2,373.5	2,365.3	7.2	6.5	-136.83	22.7	-135.7	193.4	180.1	13.29	14.545		
2,500.0	2,493.8	2,470.4	2,460.8	7.5	6.7	-136.92	26.3	-152.2	217.8	204.1	13.69	15.915		
2,600.0	2,593.0	2,567.4	2,556.3	7.8	6.8	-136.98	29.9	-168.6	242.2	228.1	14.08	17.198		
2,700.0	2,692.1	2,659.5	2,646.8	8.1	7.0	-136.97	33.5	-184.8	267.3	252.8	14.49	18.449		
2,800.0	2,791.3	2,747.9	2,733.3	8.5	7.2	-136.72	37.3	-202.9	294.8	279.9	14.87	19.818		
2,900.0	2,890.5	2,836.5	2,819.3	8.8	7.4	-136.27	41.7	-223.7	324.9	309.7	15.22	21.346		
3,000.0	2,989.7	2,929.6	2,909.3	9.2	7.5	-135.76	46.6	-246.8	356.4	340.8	15.59	22.870		
3,100.0	3,088.8	3,024.5	3,001.1	9.6	7.7	-135.33	51.6	-270.4	388.0	372.0	16.00	24.254		
3,200.0	3,188.0	3,119.3	3,092.8	9.9	7.9	-134.97	56.6	-294.0	419.5	403.1	16.41	25.562		
3,300.0	3,287.2	3,214.2	3,184.6	10.3	8.1	-134.65	61.6	-317.6	451.0	434.2	16.83	26.800		
3,379.1	3,365.6	3,289.2	3,257.1	10.6	8.2	-134.43	65.5	-336.3	476.0	458.8	17.15	27.758		
3,400.0	3,386.4	3,309.1	3,276.3	10.7	8.2	-134.42	66.5	-341.2	482.6	465.4	17.22	28.018		
3,500.0	3,485.7	3,404.2	3,368.3	11.0	8.4	-134.31	71.5	-364.9	513.3	495.7	17.65	29.077		
3,600.0	3,585.2	3,499.6	3,460.6	11.4	8.6	-134.09	76.5	-388.6	542.9	524.9	18.06	30.060		
3,700.0	3,684.9	3,595.3	3,553.2	11.8	8.8	-133.77	81.6	-412.4	571.4	553.0	18.46	30.958		
3,800.0	3,784.7	3,691.3	3,646.0	12.1	8.9	-133.38	86.6	-436.3	598.8	580.0	18.84	31.786		
3,900.0	3,884.5	3,787.6	3,739.1	12.4	9.1	-132.90	91.7	-460.2	625.1	605.9	19.20	32.553		
4,000.0	3,984.5	3,884.0	3,832.4	12.7	9.3	-132.36	96.7	-484.2	650.3	630.8	19.54	33.276		
4,100.0	4,084.5	3,980.6	3,925.8	13.0	9.5	-131.75	101.8	-508.3	674.5	654.7	19.85	33.986		
4,115.5	4,100.0	3,995.6	3,940.3	13.0	9.5	-100.92	102.6	-512.0	678.2	658.3	19.88	34.120		
4,200.0	4,184.5	4,077.3	4,019.4	13.0	9.7	-100.24	106.9	-532.3	698.1	678.1	20.07	34.791		
4,300.0	4,284.5	4,174.0	4,112.9	13.1	9.9	-99.48	111.9	-556.4	721.8	701.6	20.29	35.568		
4,400.0	4,384.5	4,270.7	4,206.4	13.2	10.1	-98.77	117.0	-580.4	745.7	725.1	20.53	36.321		
4,500.0	4,484.5	4,367.5	4,300.0	13.3	10.3	-98.10	122.1	-604.5	769.6	748.8	20.77	37.050		
4,600.0	4,584.5	4,464.2	4,393.5	13.3	10.5	-97.48	127.2	-628.6	793.6	772.6	21.02	37.756		
4,700.0	4,684.5	4,560.9	4,487.0	13.4	10.7	-96.89	132.2	-652.6	817.7	796.5	21.27	38.439		

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

ConocoPhillips
Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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		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)	Separation Factor	Warning	
4,800.0	4,784.5	4,657.6	4,580.6	13.5	10.9	-96.33	137.3	-676.7	841.9	820.4	21.53	39.101		
4,900.0	4,884.5	4,754.3	4,674.1	13.6	11.1	-95.81	142.4	-700.7	866.2	844.4	21.79	39.742		
5,000.0	4,984.5	4,851.0	4,767.6	13.6	11.3	-95.31	147.5	-724.8	890.5	868.4	22.06	40.363		
5,100.0	5,084.5	4,947.7	4,861.2	13.7	11.5	-94.84	152.5	-748.8	914.9	892.5	22.33	40.964		
5,200.0	5,184.5	5,044.5	4,954.7	13.8	11.7	-94.39	157.6	-772.9	939.3	916.7	22.61	41.547		
5,300.0	5,284.5	5,142.2	5,049.2	13.9	11.9	-93.97	162.8	-797.2	963.8	940.9	22.87	42.135		
5,400.0	5,384.5	5,258.2	5,161.8	13.9	12.1	-93.51	168.6	-824.8	987.3	964.1	23.22	42.519		

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

ConocoPhillips

Anticollision Report

Company:	DELAWARE BASIN WEST	Local Co-ordinate Reference:	Well FLAMING SNAIL FEDERAL COM 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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 @ 3156.7usft

Offset Depths are relative to Offset Datum

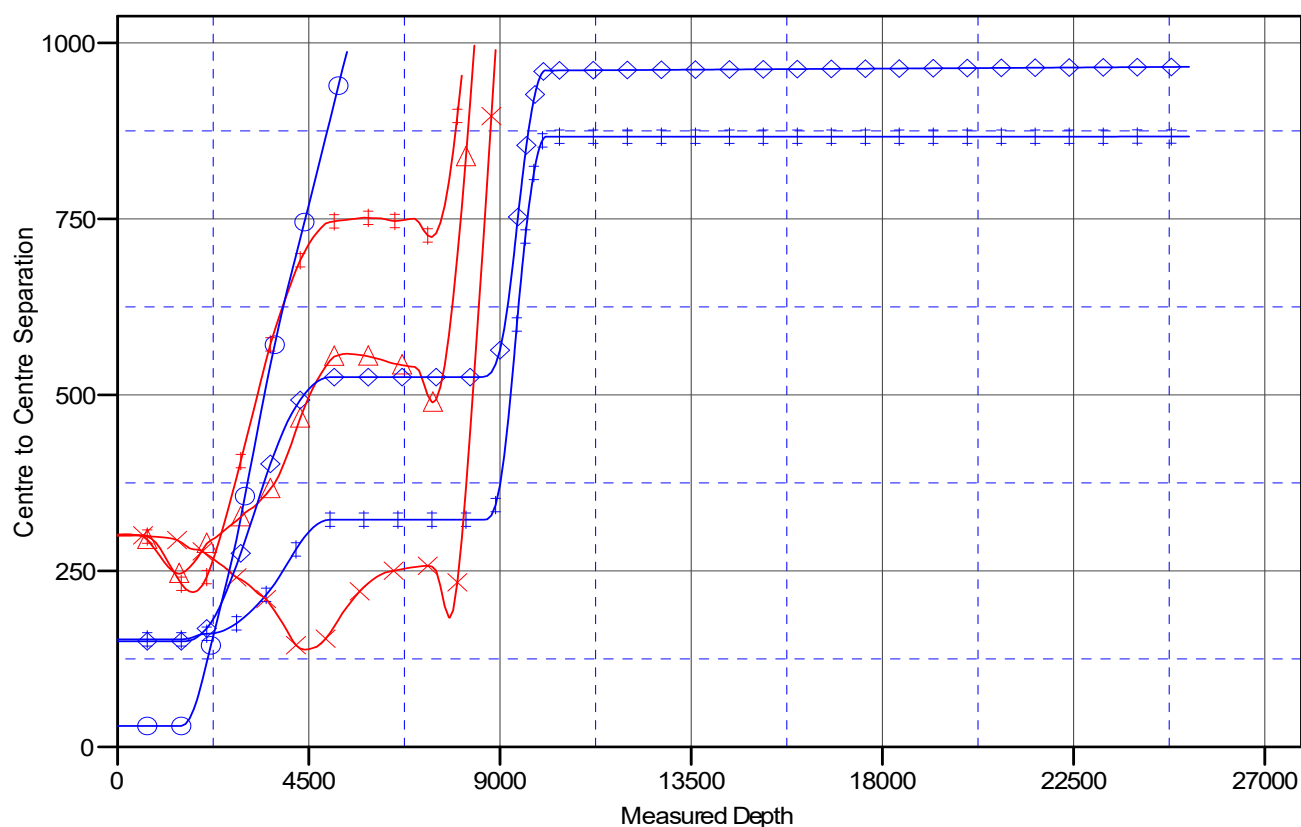
Central Meridian is 104° 20' 0.000 W

Coordinates are relative to: FLAMING SNAIL FEDERAL COM 802H

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

Grid Convergence at Surface is: 0.08°

Ladder Plot



LEGEND

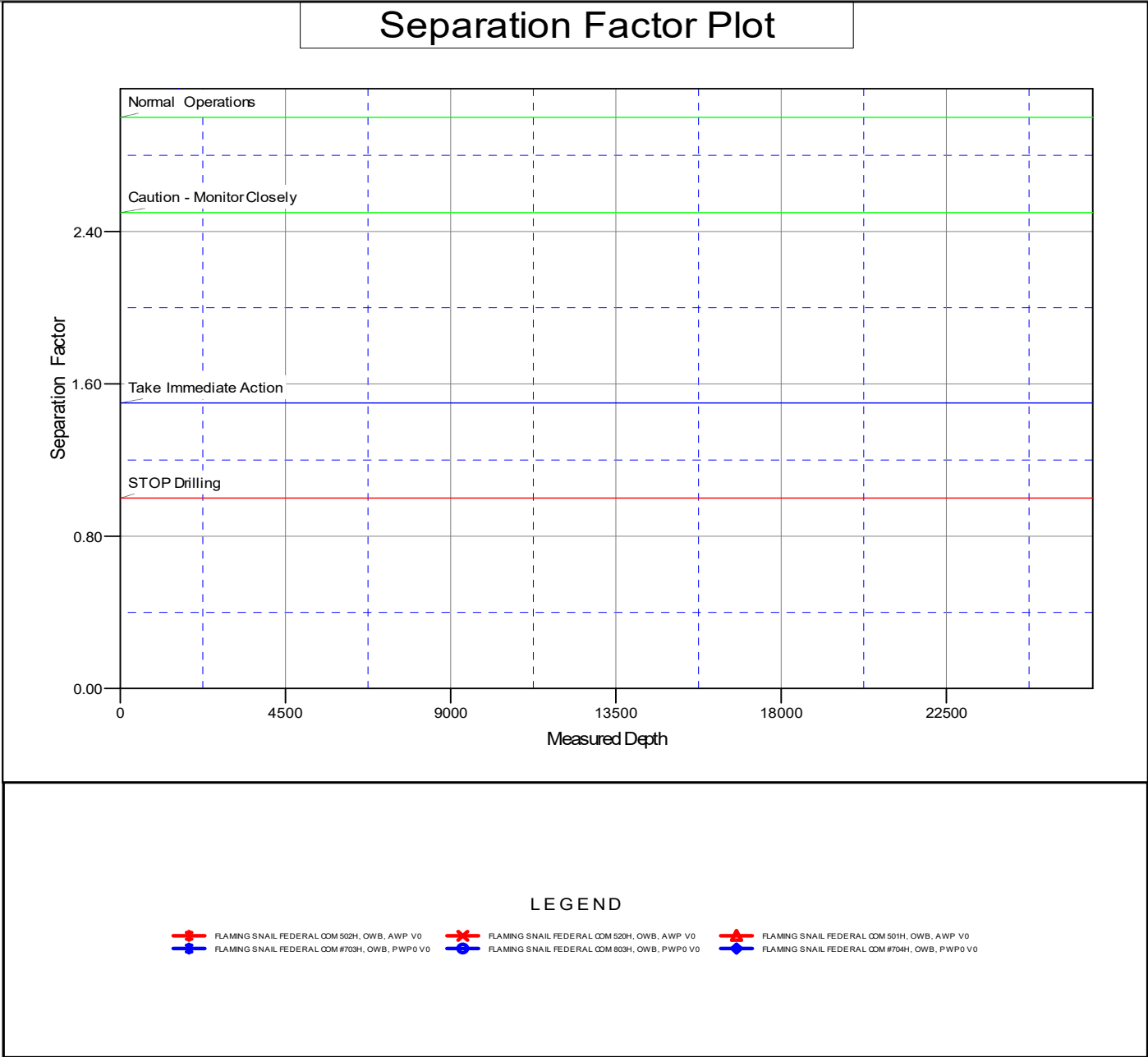
x FLAMING SNAIL FEDERAL COM 502H, OWB, AWP V0
 △ FLAMING SNAIL FEDERAL COM 503H, OWB, AWP V0
 ★ FLAMING SNAIL FEDERAL COM 501H, OWB, AWP V0
○ FLAMING SNAIL FEDERAL COM #703H, OWB, PWP0 V0
 + FLAMING SNAIL FEDERAL COM 803H, OWB, PWP0 V0
 ◇ FLAMING SNAIL FEDERAL COM #704H, OWB, PWP0 V0

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 802H
Project:	ATLAS PROSPECT (DBW)	TVD Reference:	KB @ 3156.7usft
Reference Site:	FLAMING SNAIL FED COM PROJECT	MD Reference:	KB @ 3156.7usft
Site Error:	0.0 usft	North Reference:	Grid
Reference Well:	FLAMING SNAIL FEDERAL COM 802H	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 @ 3156.7usft	Coordinates are relative to: FLAMING SNAIL FEDERAL COM 802H
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°



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)

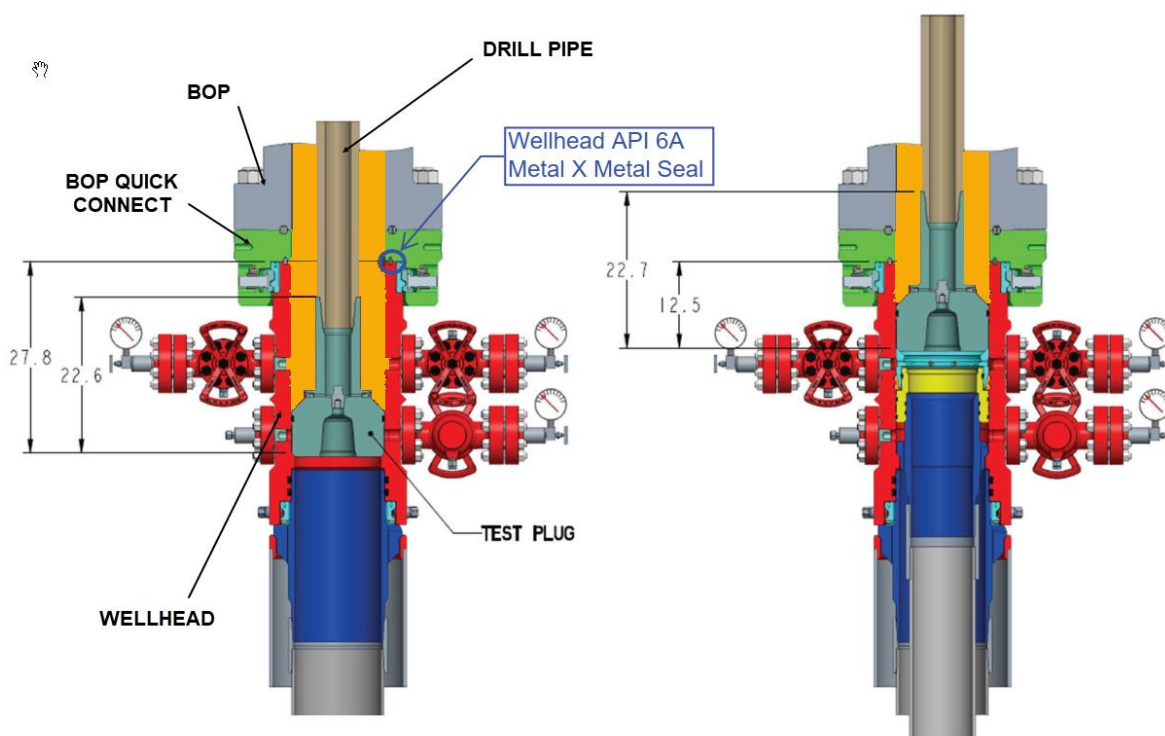


Figure 1: Test plug installed (The orange sections above indicate the areas exposed to the pressure test)

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.

Sante Fe Main Office
Phone: (505) 476-3441

General Information
Phone: (505) 629-6116

Online Phone Directory
<https://www.emnrd.nm.gov/oed/contact-us>

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

CONDITIONS

Action 423501

CONDITIONS

Operator: COG OPERATING LLC 600 W Illinois Ave Midland, TX 79701	OGRID: 229137
	Action Number: 423501
	Action Type: [C-103] NOI Change of Plans (C-103A)

CONDITIONS

Created By	Condition	Condition Date
ward.rikala	No additives containing PFAS chemicals will be added to the drilling fluids or completion fluids used during drilling, completions, or recompletions operations.	10/6/2025
ward.rikala	Any previous COA's not addressed within the updated COA's still apply.	10/6/2025